



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

# Colorado Woodworkers Guild

## March 2017

### President's Message

For those who placed an order for supplies from *A Cut Above*, Stan Wolpert will deliver them at this month's Guild meeting. Many thanks to Stan for organizing this event and for his diligence in repackaging and bringing these supplies to our meeting.

The Guild is off to an excellent start this year. A great many of you have renewed your membership. For that we thank you. Instead of waiting for the next meeting, you may find it more convenient to renew [online](#).

The next interment of unclaimed veterans' cremains will be celebrated Friday, March 24 at 1:30 PM at Ft. Logan. If you're a veteran, made an urn, or want to be part of this touching ceremony, I urge you to take an afternoon off from work and attend.

With real estate prices and rent soaring in the Denver metro area, neighboring communities have begun reaching out to artists and craftspeople in an effort to attract them to a welcoming and more economical locale. One such [opportunity](#) was recently brought to the Guild's attention. If you're interested in a collaborative working environment, this might be something to consider.



### What's On My Mind?

Old weathered wood has a visual quality that is unmatched by fresh cut lumber. Recycling reclaimed lumber is one way to preserve our supply of woodworking material and make pieces of furniture with unique character. Recycling wood in this way saves trees and helps to keep wood prices from rising as quickly.

But even working with recycled wood involves trimming away material until it takes on the desired shape. Cutting and planing operations generate plenty of wood waste. It becomes saw dust, shavings, cutoffs and plain old mistakes we make along the way. What do you do with all that waste? I triage mine.

Larger cut-offs go back on my lumber rack. Shorter lengths get tossed in my scrap box. I use them for stop blocks, set-up cuts and backer boards when drilling. The smallest or most abused ones wind up in my burn bucket that sits next to the fireplace. Some sawdust I mix with mulch and soil for use in our garden (except walnut and butternut). The rest goes into a garbage can waiting to be hauled off to a landfill.

There are problems with my waste triage method, though. First, my scrap box is overflowing. I can't bear to part with a nice piece of hardwood no matter how small. It could turn into a knob or accent strip one day. So, I hold on to them awaiting the right opportunity. Unfortunately, they accumulate faster than I use them. And as my scrap box fills up, I'm less likely to find the piece I'm looking for. It's just too much trouble to sift through them all.

The second problem is my burn bucket. Wood is 50% carbon. Burning it heats my house but it also releases lots of CO<sub>2</sub> into the air immediately. Quickly adding this greenhouse gas to the atmosphere isn't such a good thing. Burying wood in a landfill allows it to decompose very slowly. Estimates are it takes hundreds of years for wood or sawdust to decompose underground. Soil bacteria then have plenty of time to convert wood's carbon and minerals into soil enriching compounds.

So before warming my house or shop for a few minutes by tossing burn box contents into the fire, I'm tilling sawdust into our garden and sending cutoffs to a landfill or a commercial recycler. It's likely to play a more enriching role.

*By Jim McNamee*

## Upcoming Events

**March 21, 2017** - William Manke of Boxwood Pinball will present his wooden pinball machines and discuss how they are made. For more info on these interesting machines check out [BoxWoodPin-ball.com](http://BoxWoodPin-ball.com).



**March 24, 2017** - For some time now guild members have been making funeral urns for veterans. Last year there was an interment at Fort Logan National Cemetery. On Friday the 24<sup>th</sup> there will be another interment ceremony at Fort Logan. Guild members are invited to attend.



**April 8, 2017 Southern Shop Tour** - The Guild is conducting a tour of three shops in Parker and Monument. If you wish to attend this event, see "Southern Shop Tour" in the Members' Corner in the Menu bar above, or [click here](#)

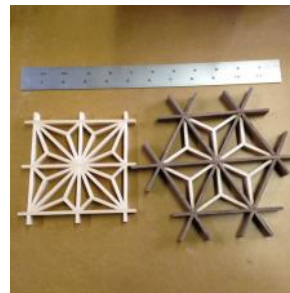


**April 18, 2017** - At the February meeting, Frank Livingston entered what he calls "Scroll Saw Bowls" in the Show & Tell. The bowls were well received and Frank was the S&T winner. Frank has agreed to give us a presentation on how these are made. For those of you who were not present at the February meeting here is a pic of Frank's work:



**April 30, 2017** - The Colorado Arts & Crafts Society will have its annual "Gathering Of The Guilds" at [The Boettcher Mansion](#). The guild will have a table there. This is a great way to explore the work of many other guilds in the area.

**May 16, 2017** - In the September 2016 Show & Tell, Mike Farrington presented boxes topped with the Japanese art of "Kumiko" which is a symmetrical lattice-work. Mike has agreed to present the construction of a Kumiko lattice. Here are pictures of Mike's work.



**June 20, 2017** - CWG President Jim McNamee and long time member Lindy Baer will give us a presentation on Personal Respirators.

**July 18, 2017** - There is currently nothing planned for this meeting. If you have any suggestions, please drop an email to

[programs@coloradowoodworkersguild.org](mailto:programs@coloradowoodworkersguild.org)

## Community Service

### SUMMER IN THE CITY (Formerly Known as KidSpree) Call for Volunteers

The City of Aurora will hold its Summer in the City Event this year on June 2. Aurora will not do a KidSpree event this year but the Summer in the City event will be essentially the same kind of thing. The Guild has participated in past years by building birdhouse kits and helping kids put the birdhouses together at the event. The Community Service Committee is looking for volunteers to help build and assemble the kits, and to staff the Guild booth at the event. The key to a successful event is having enough volunteers at the event itself to spread the work over as many sets of hands as possible. The event runs from 11am to 2pm, which is a welcome change from the longer sessions in the past. We need a minimum of 8 to 10 people to staff the Guild's booth. We can always use help building and assembling the kits, but the critical part of this effort is staffing the booth. We're planning a work session at Jeff Roth's shop for Friday, April 14 to cut and assemble the kits. A sign-up sheet will be available at the next Guild meeting for members to indicate their availability and willingness to help. Or you can contact Charlie Kuechenmeister at [charlesk13@gmail.com](mailto:charlesk13@gmail.com) or Jeff Roth at [jef-froth@myawai.com](mailto:jef-froth@myawai.com), or let one of us know at a Guild meeting. It's a fun time. All are welcome

## Membership

**Membership Problems??? Send an email to [programs@coloradowoodworkersguild.org](mailto:programs@coloradowoodworkersguild.org)**

Happy March!

Membership status as of this writing:

129 Members paid through the end of 2016

151 Members paid through the end of 2017

280 Active memberships total

Total 280 **active** memberships. About 54 percent of our members are current through the end of 2017.

What is an active membership? A membership is valid through the end of the calendar year. If you have not renewed for 2017, your membership is still considered active until April 1, 2017.

On April 1, 2017, the accounts for all members who are not renewed for 2017 will be disabled.

**Now is a great time to renew your membership!**

The 2017 member cards look like this (member name/expiration in red text on a white background). If your member card does not look like this it has expired.



If you believe that you have renewed for 2017 and do not have a current membership card, please let me know. Send an email to [programs@coloradowoodworkersguild.org](mailto:programs@coloradowoodworkersguild.org) and I'll address the problem.

Thanks

**How can you renew?** For me the best way you can renew is on-line. When you fill in one of our on-line forms I do not have to decipher your handwriting (no offense). The data is machine readable, meaning I do not have to enter it manually!

You can renew on-line using PayPal or you can renew on-line, print out the form and mail it with a check or bring the form/check to a meeting.

To renew on-line using PayPal, you do not need a PayPal account go to

<http://coloradowoodworkersguild.org/index.php/about/sign-up-for-membership>

To renew on-line and mail the form in with a check go to

<http://coloradowoodworkersguild.org/index.php/pay-by-check-member-application>

If you log in first your name address etc. will automatically be filled in! If you don't know how to log in OR are unable to log in drop me an email at [programs@coloradowoodworkersguild.org](mailto:programs@coloradowoodworkersguild.org) and I'll help you out!

**Cary Goltermann - Assistant to the Membership**



## Presentation

### Working on the Beat of a Different Drum Dan Briechle



Drums are as old as human civilization. The earliest ones were made from materials readily available in each culture including logs and animal hides. As drums were incorporated into bands and orchestras, they became more sophisticated, but they retained their fundamental features. The walls of a drum, its shell, became thinner and were made from modern materials. Synthetic membranes largely replaced animal hide skins.

Dan Briechle of *Briechle Custom Drums* has taught drum making at Red Rocks Community College and routinely takes on apprentices in an effort to pass along his craft. He took time from his busy custom woodworking business to show us how he makes a variety of high-end drums for well-healed customers.

Dan personally prefers the look, feel, and sound of wooden drum shells. He starts by making a thick wooden hoop. Nearly any wood will do, but he takes care to select species that are likely to bend without breaking after they are steamed. Steam bending is the key to making the walls of a drum. Kiln dried cherry and walnut bend well but Dan prefers to steam bend green wood whenever possible for it is much more pliable. Dan applied GF20, a veneer softener, to his boards before steaming them to make the lignin in the wood more pliable.

Dan pointed out that steam bending is somewhat less effective in Denver. Water boils at 212° F at sea level but in Denver it boils at 203° F. Steam is also 9° F cooler at this altitude. Dan realized what mountain cooks already know; cooler steam temperature changes how things cook and in the case of wood, how well steam bending works. Dan combats altitude effects by adding salt to his steam generator to raise its boiling point. His steamer also makes pressure build up 2-3 PSI, creating a pressure cooker effect and further increasing steam temperature. A second challenge of steam bending in Denver is our low humidity. Steamed wood dries out quickly meaning he needs to bend it quickly before it loses its flexibility. Interestingly, it's possible to over-steam wood. Too long an exposure to heat and moisture makes wood more likely to crack or delaminate when it's bent.

The beauty of a custom-made drum is that it can take on many different styles and appearances.

However, drum diameters must be constructed in standard sizes so that readily available drum skins and rims will fit them. If his drum's outer diameter is off by as little as 1/32-inch, the drum will be a reject. Between miscues in the bending and fitting processes, Dan estimates his success rate is about 30 percent. But when everything does come together, the result is spectacular. Dan can mix wood species and grain directions to fashion truly distinctive looking and beautiful sounding instruments.

Wood is only one constituent of the drum shell. Dan intersperses carbon fiber and fiberglass plies to add strength and stability to the shell. He's used up about any material you can imagine. Rather than glue, Dan uses epoxy to adhere plies together. Epoxy is not only strong but it gives him enough open time to make adjustments.

Once all plies have dried in their tubular forms Dan trues up and squares off the shell's ends. At this point they're ready for him to apply inlays, embellishments, and several coats of finish. Reflecting Dan's craftsmanship and artistry, his final products command very high prices.

By Jim McNamee

[Click here to view Presentation video](#)



## Show and Tell

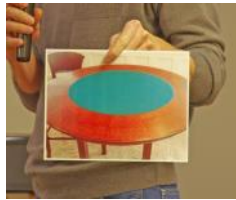
Most bowls are turned on wood lathes or routed out with bowl bits. **Frank Livingston** took a different approach that employed a scroll saw. He assembles a collection of various short pieces of wood into a pleasing looking flat blank, and then proceeds to cut concentric circles (or ovals) from that board. By stacking those rings atop each other and gluing them up, the bowl takes shape. After a thorough sanding, he affixes the bowl's bottom and applies a finish of polyurethane to the bowls. He's this month's Show and Tell winner and a new member, to boot!



**Charlie Kuechenmeister** made a Stickley Taboret, a small table, to match his Arts-and-Crafts furnished living room. His wood of choice was rift-sawn white oak. He scaled down an original set of plans to make it fit nicely in the space he had in mind. Charlie treated the oak with a solution of India ink and alcohol to highlight the oak's grain. Then he dyed and stained it to achieve the desired color. Charlie finished it with wiping polyurethane diluted with mineral spirits.



It was far too large to carry to the meeting, so **Dave Baker** brought pictures of a poker tabletop he designed to fit on top of an existing bar table. He fashioned it from 16 segments of quarter sawn oak. Each segment had to be cut at an angle of precisely 9.25°. Hitting that number exactly on his table saw wasn't easy. It took a few attempts because any miter angle error was exaggerated on such large segments. Once assembly and glue-up was complete, Dave dyed and stained the oak to give it a rich brown color. Finally, he protected the wood with layers of polyurethane and wax, adding a large circle of green felt in the middle to provide a comfortable surface for card games.



**Ed Lippert** built a one-of-a-kind tabletop hat rack as a present for his niece's husband. It has places for holding three hats. He chose contrasting colors and grain patterns of ash and cherry for this project. Ed topped the wood with oil and several coats of wax.



A kerfmaker measures the thickness of a table saw blade and accounts for it when making dado cuts exactly the right width. **Dale Bowlin** made one from scratch in his shop and a described how to use it. Dale's design was inspired by a commercial model sold by Bridge City Tools. He fashioned it from oak and miscellaneous materials, and finished it with boiled linseed oil. Dale put his kerfmaker to work cutting perfectly fitting dividers for a box that holds his collection.



his

Like Frank Livingston, **Marvin Meek** took an alternative approach to making bowls with unconventional shapes. He used a router to make bowls and trays in shapes that cannot be turned on a lathe. Marvin began with glued up alternating strips of walnut and maple cut to the desired outline. He and his young son hogged out interior waste with Forstner bits. Marvin smoothed the bowl's interior using a router. He finished each piece with Emmet's "Good Stuff." Impressed with his results, Marvin wants to graduate to a lathe so he can make more bowls.



Dogs deserve a nice place setting for their meals so **Michael Cunningham** made attractive dog feeding and water bowl holders from scraps of Colorado beetle kill pine. Each is assembled using stained epoxy and finished with water-based polyurethane to protect it from moisture and food. He's made a few of them for friends and sold the others.



Thank you to everyone who brought their work to be seen by the rest of the group. Remember that Show and Tell is a regular feature of each meeting. Please continue to bring your pieces to let us see what you've been doing.

*By Jim McNamee*



## About Wood

In this month, March 2017, we consider **Koa**. **Koa** (**Acacia Koa**), is a medium to large size tree from the family Fabaceae or Leguminosae, the legume family (related to peas).

Recall that in previous columns, we have defined the Modulus of Rupture (MOR), the Modulus of Elasticity (MOE), Crush Strength, and Janka Hardness. We will continue to use those terms. Most of the other terms are generally well understood and will not be defined further. If you have questions about other terms or questions about a specific wood, contact

wood@coloradowoodworkersguild.org.



Here is a summary of the characteristics of **Koa**:

**Distribution:** On all the larger islands in the Hawaiian chain

**Tree size:** 65-100 ft. (20-30 m) tall; 3-5 ft. (1-1.5 m) trunk diameter

**Average Dried Weight:** 38 lbs/ft<sup>3</sup> (610 kg/m<sup>3</sup>)

**Specific Gravity:** (Basic, 12% MC): .53, .61

**Modulus of Rupture (MOR):** 12,620 lb<sub>f</sub>/in<sup>2</sup> (87.0 MPa)

**Modulus of Elasticity (MOE):** 1,503,000 lb<sub>f</sub>/in<sup>2</sup> (10.37 GPa)

**Crush Strength:** 7,060,110 lb<sub>f</sub>/in<sup>2</sup> (48.7 MPa)

**Janka Hardness:** 1,170 lb<sub>f</sub> (5,180 N)

**Shrinkage:** Radial, 5.5%; Tangential, 6.2%; Volumetric, 12.4%; T/R Ratio, 1.1

**Heartwood Appearance:** light to dark brown with a golden luster, sometimes with darker streaks; similar to mahogany; sometimes exhibits chatoyance when polished

**Sapwood Appearance:** pale brown, clearly demarcated

**Grain/Texture:** fine to medium texture, slightly interlocked; can be wavy and curly

**Stability:** dimensionally stable after drying; easy to dry

**Relative strength:** bending strength fairly high

**Decay Resistance:** subject to insect and fungus attack; durability below black walnut

**Workability:** need sharp tools because of interlocked grain; can be planed, sanded, and turned; does not glue well

**Odor:** little or no scent or odor

**Toxicity:** none; regular concerns for wood dust

**Potency:** low

**Toxicity Source:** wood dust

**Reaction:** ordinary respiratory issues with dust

**Sustainability:** supplies are limited and diminishing; fast growing; there is conservation work in process; plantation grown wood is becoming available

**Uses:** furniture, carving, veneer, boat building, musical instruments (it has resonant qualities; it's a "tonewood"), and turning

**Typical Cost:** one of the most expensive woods

**Comments:** sometimes called Hawaiian Mahogany; somewhat similar to Black Walnut; ancient Hawaiians used Koa for seagoing canoes; was logged nearly to extinction; is now slowly coming back; largest and oldest (500 years) Koa in the world is in a Nature Conservancy preserve near Kona on Hawai'i Island; grows best in volcanic soil at altitudes from 3,000 to 7,000 feet.

Images are by Wmpearl and Forest & Kim Starr

If you have questions about a specific wood, don't hesitate to send a note to wood@coloradowoodworkersguild.org.

## Sponsor's Corner

### Sponsor Profile: Signature Medallions



#### Signature Medallions

([www.signaturemedallions.com](http://www.signaturemedallions.com)) from San Diego has been a Guild sponsor for two years. Gary Anderson, who continues to operate it, formed the company about three years ago. Originally from the Duluth area, with a degree from the University of Minnesota and time in the Air Force, Gary joined the Southland Corporation and moved to San Diego. Now retired, along the way he joined the San Diego Fine Woodworkers Association (SDFWA), and started a company that provides pins, patches, and other “brand” items to organizations.

Gary explains that a member of the SDFWA inspired his company when that member asked if he could make a pin with the member's name. Of course, he said yes, but the member had an additional request—could he leave off the pin on the back. Then the member explained that he intended to use this new item to “sign” one of his wood working pieces—thus Signature Medallions was born.

Signature Medallions are generally stamped from steel and then plated in a variety of finishes (silver, copper, gold—including variations of those). Though most are round for ease of installation (they drop into a shallow hole cut by a forstner bit), they can be made in any shape for the more ambitious inlayer.

Besides his pins and patches and medallion businesses, Gary is a woodworker (golf putters, gifts, etc.) and a board member of SDFWA. Some of his board activities include supporting the annual Design in Wood (see [www.sdfwa.org](http://www.sdfwa.org) for more information) event and working on creating a SDFWA shop that would be available for its members.

The Colorado Woodworkers Guild appreciates the addition of Signature Medallions to our group of sponsors and encourages member to consider personalizing their projects with signature medallions. Signature Medallions offers the custom designed medallions (100 medallion minimum order) to Guild members at a 10-percent discount. See <http://www.signaturemedallions.com/> for more information.

Guild Liaison for Signature Medallions is Jack Brock

*liason-signaturemedallions*  
*@coloradowoodworkersguild.org*

#### Sponsor Update:

##### EZ Dado

Cal Noguchi has decided to focus his energy on new ideas and reduce his effort in EZ Dado. Consequently, he is no longer going to participate as a Guild sponsor. However, he will remain an active Guild member. The Guild appreciates Cal's sponsorship and wishes him well in future ventures.

##### Woodcraft Denver

Travis Brown has decided to discontinue as liaison for Woodcraft of Denver. Michael Cunningham has agreed to serve as the new liaison and should be the contact with Woodcraft of Denver if you have questions or concerns, or need support with Woodcraft of Denver.

##### Signature Medallions

Jack Brock is now serving as the liaison for Signature Medallions. Please contact him if you have questions or concerns, or need support with Signature Medallions.

***Jack Brock—Publicity and Public Relations***

## Frank Paxton Lumber Wood of the Month

The featured Wood of the Month for March 2017 from Frank Paxton Lumber is four quarter (4Q), S3S Walnut FAS or better in random widths and lengths 6' to 7'.

As always, call 303-399-6047 for pricing.

## ***2017 Guild Officers***



Jim McNamee— President  
[president@coloradowoodworkersguild.org](mailto:president@coloradowoodworkersguild.org)



Clifford Whitehouse—Vice President  
[vice-president@coloradowoodworkersguild.org](mailto:vice-president@coloradowoodworkersguild.org)



Laura Peterson – Treasurer  
[treasurer@coloradowoodworkersguild.org](mailto:treasurer@coloradowoodworkersguild.org)



Gary Glatthar – Secretary  
[secretary@coloradowoodworkersguild.org](mailto:secretary@coloradowoodworkersguild.org)



Bob Kleinfeldt – Board Member at Large  
email address pending

## ***Guild Committee Chairs***



William Knoll—Audio – Video – Committee  
[video@coloradowoodworkersguild.org](mailto:video@coloradowoodworkersguild.org)



Stan Wolpert—Classes Chair  
[classes@coloradowoodworkersguild.org](mailto:classes@coloradowoodworkersguild.org)



Charles Kuechenmeister—Community Service  
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Al Limiero—Newsletter Editor  
[newsletter@coloradowoodworkersguild.org](mailto:newsletter@coloradowoodworkersguild.org)



Cary Goltermann—Programs  
[programs@coloradowoodworkersguild.org](mailto:programs@coloradowoodworkersguild.org)



Jack Brock—Publicity and Public Relations  
[publicity-pr@coloradowoodworkersguild.org](mailto:publicity-pr@coloradowoodworkersguild.org)



Kevin Loyd—Shows and Exhibits  
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Chuck Hix—Librarian  
[library@coloradowoodworkersguild.org](mailto:library@coloradowoodworkersguild.org)



Dick Daily—Refreshments  
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Dennis Machlica—Membership  
[membership@coloradowoodworkersguild.org](mailto:membership@coloradowoodworkersguild.org)



Michael Cunningham—Classified Ads  
[classifiedads@coloradowoodworkersguild.org](mailto:classifiedads@coloradowoodworkersguild.org)



Wilbur Goltermann—Webmaster –  
[webmaster@coloradowoodworkersguild.org](mailto:webmaster@coloradowoodworkersguild.org)



## CWG Sponsors

The Colorado Woodworkers Guild is fortunate to have several companies as Sponsors. Our Sponsors help the Guild with programs, materials, supplies, facilities, display space, financial, and other means. In many cases, Guild members are able to obtain discounts from our Sponsors (except for power tools and sale items). Please note: the Guild discounts only apply to in-person purchases in the store (except where noted) and are not available at any sponsor's online store. You must show a current membership card to obtain the discount

## Sponsor Update: Mountain View Window and Door

The Newsletter was going to include a profile on Mountain View Window and Door but in the process of discussing the profile with Mountain View they informed the Guild that they were withdrawing their sponsorship of the Guild for the time being because they did not see sufficient benefit from the sponsorship.

The Guild appreciates their participation with us and will welcome them back if and when it fits their business prospects.

Guild Liaison for Mountain View Window and Door had been Fred Schmidt

***Jack Brock—Publicity and Public Relations***

**A Cut Above** 16512 Arminta Street Van Nuys, CA 91406 Phone: 800-444-2999

Website: [www.acutabove.com](http://www.acutabove.com)

**Austin Hardwoods of Denver, Inc.** 975 W. Mississippi Denver, CO 80223 Phone: 303-733-1292

Website: [www.austinhardwoods.com](http://www.austinhardwoods.com)

**B & B Rare Woods** 871 Brickyard Circle, Unit C4, Golden, CO 80403 Phone: 303-986-2585

Website: [www.wood-veneers.com](http://www.wood-veneers.com)

**Charlie's 2nd Hand Store, Inc.** 2227 Larimer Street Denver, CO 80205 Phone: 303-295-1781

Website: [www.usedtoolsplus.com](http://www.usedtoolsplus.com)

**Collector's Specialty Woods** 4355 Monaco Street, Unit A, Denver, CO 80216 (this is their Denver showroom and warehouse) and 8055 County Road 570 Gardner, CO 81040 (this is their southern Colorado wood yard, kiln drying facility, woodshop, and another show-room) Phone: 800-746-2413

**Denver Woodworking Company** 2062 S. Bannock Street Denver, CO 80223 Phone: 303-733-3130 Website: [www.denverwoodworking.com](http://www.denverwoodworking.com)

**Mile High Tree Care, Inc.** 6010 W. 56th Avenue, Arvada, CO 80002 Phone: 303-292-9393

Website: [www.milehightreecare.com](http://www.milehightreecare.com)

**Frank Paxton Lumber Company** 4837 Jackson Street Denver, CO 80216 Phone: 303-399-6047

Website: [www.paxtonwood.com/denver.aspx](http://www.paxtonwood.com/denver.aspx)

**Reclaimed Boxcar Flooring** Phone: 303-913-6373

Website: [www.reclaimedboxcarflooring.com](http://www.reclaimedboxcarflooring.com)

**Rockler Woodworking and Hardware** 2553 S. Colorado Blvd Denver, CO 80222 Phone: 303-782-0588

Website: [www.rockler.com/retail/denver-colorado-hardware-store.cfm](http://www.rockler.com/retail/denver-colorado-hardware-store.cfm)

**Signature Medallions** 4218 Ponce De Leon Drive La Mesa, CA 91941 Phone: 619-303-2876

Website: [www.signaturemedallions.com](http://www.signaturemedallions.com)

**TC Woods** 5406 County Road 23 Ft. Lupton, CO 80621 Phone: 3-666-8989

Website: [www.tcwoods.com](http://www.tcwoods.com)

**Tool Zone, Inc.** 8651 Grant Street, Unit 1A Thornton, CO 80229 Phone: 303-252-8500

Website: [www.toolzone.com](http://www.toolzone.com)

**Woodcraft of Denver** 6770 S. Peoria Street Centennial, CO 80112 Phone: 303-290-0007

Website: <http://www.woodcraft.com/stores/store.aspx?id=305>

3/13/2017