



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

August 2021 Newsletter



President's Corner

Wilbur Goltermann, President

Hola mis buenos amigos,

Much as I love all y'all, I'm finding myself falling in love with my new adopted home in San Miguel de Allende, Mexico.

I have little to report other than that we continue to make progress on our long rumored media production system, and that until it is fully commissioned, I will not be able to join our meetings.

Hopefully we will have the solution in pocket by the time the September meeting rolls around.

So, for the time being th-th-th-at's all folks!

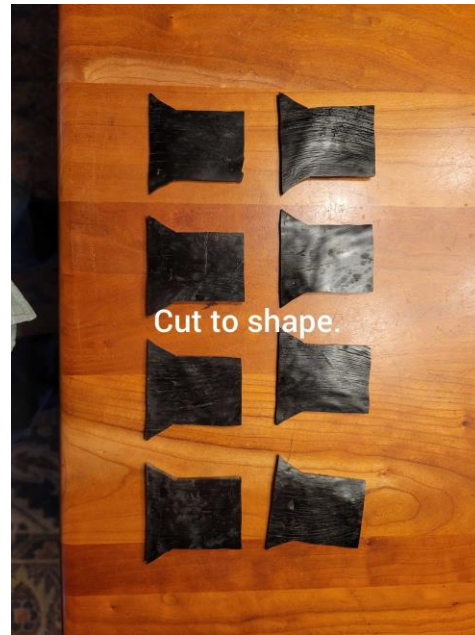
Wilbur Goltermann, President

Show and Tell

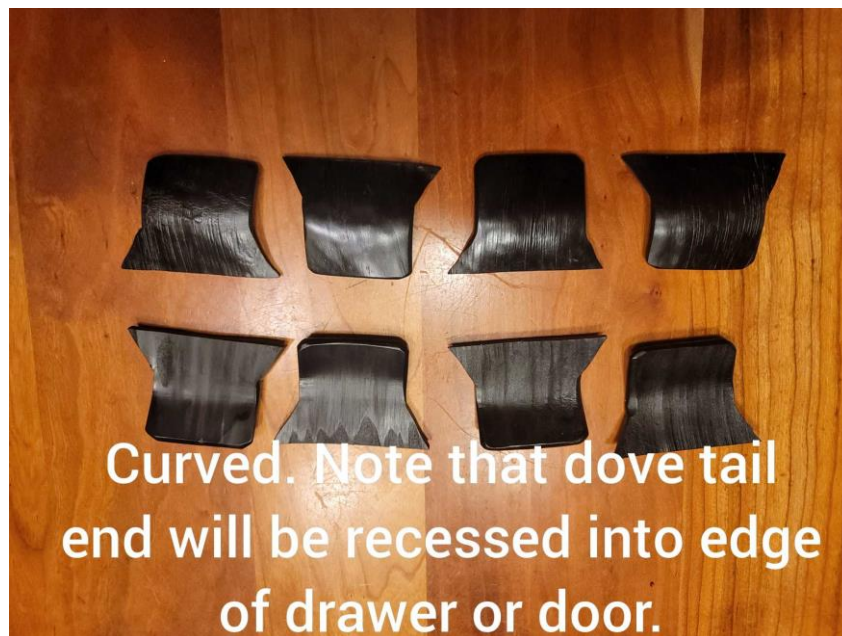
The show and tell items at the July meeting included entries from two members. Duane Holmes and yours truly, Cary Goltermann.

Duane's entry was some drawer pulls made from Bison Horn. I was surprised to learn that Bison Horn is actually hair. Duane took the raw Bison Horn and cut it into usable pieces. He cut the horns in half, heated them in 200 degree tung oil, to make them pliable and flattened them. The flattened pieces were then cut to the shape desired for drawer pulls.





Finally, the cut pieces were heated again and curved.



Next, we had an entry from me. I built a shelf which mounts to the wall under the TV in the family room. The shelf was made from some very rough Hickory which I purchased at a Guild auction many years ago. I had two large pieces which formed the top and bottom of the shelving unit and a bunch of smaller pieces which were joined together to form the back and sides.



The top piece has a split which I reinforced with a bow tie. I cut the bow tie and its tenon with my CNC router. And filled the crack with polyester resin.

The sides are mortised into the top and bottom. I cut the mortises with the CNC as well. The back is set into a routed mortise in the back. Everything is glued using Titebond III. The finish is several coats of water-based poly.



The winner of the evening was Duane with his hairy drawer pulls.

Thanks to all who participate. Please consider sending me some pictures prior to the next meeting. Include a brief description of the project and a couple of pictures. If possible, get them to me a week before the meeting so I can prepare for the meeting itself. I can be reached at showandtell@coloradowoodworkersguild.org

Thanks, and see you at the August 2021 meeting,

Cary Goltermann, Show and Tell Administrator

Meeting Presentations

July 2021 Meeting

On July 20, 2021, we were honored to have a guild presentation by Mr. Shannon Rogers, of The WoodTalk podcasts. Mr. Rogers is also the proprietor of the podcast The Renaissance Woodworker, where he displays an amazing talent for building things primarily with only hand tools. He is also owner of The Hand Tool School where he provides hands on and online classes. In addition, Shannon works for a high-end lumber supplier and is the director of Marketing for J. Gibson McIlvain lumber. Mr. Rogers presentation was on Applied Saw Tooth Technology.

Mr. Rogers started the discussion that if you are working hard to hand saw a board, you are doing it wrong; that either you are using the wrong saw, or your technique is wrong. He showed us the proper stance to saw a board. He noted that a saw is simply a row of sharp chisels.

Then Mr. Rogers explained three principles of choosing the right saw for the job: Pitch of teeth, rake angle, and fleem angle. In addition, the length of the saw blade is especially important for clearing the sawdust out of the teeth.

- The more the pitch, the faster the cutting.
- The rake angle determines how easy the saw cut is to start.
- The fleem angle determines how cleanly the cut that is produced. It is like scoring the wood with a knife to precut the fibers and it reduces tear-out.

Rip saws typically have 5 teeth per inch, but an 8 tpi produces a cleaner but slower cut. Crosscut saws typically use 8 tpi, with a 5–15-degree rake and a 5-10 degree fleem angle. If you were to only buy two saws, he recommends buying an 8 teeth per inch crosscut saw, and a backsaw or a carcass saw.

Mr. Rogers explained the technique of sharpening saw blades using files saw vices, and tooth set tools that are available for the task, by Veritas and Gramercy.

He concluded the presentation with the advice that, when used correctly, it is a joy to use hand saws and the work quality is comparable to power tools.

August 2021 Meeting

Our August 17th meeting will be the first one where we return to the Rockler basement. The live presentation will be by woodworker and inventor Andy Klein. An employee and inventor for Magswitch, he has also manufactured the twin turbo vise, a pencil making kit, a bandsaw tensioning app for the phone, wood tap sets and the Miter Fold Dado Set. Andy's subject of presentation will be on creating prototypes, manufacturing and marketing the products he designs. It should be a fascinating behind-the-scenes look at how the products we are familiar with come to market, and how some of them never make it.

Mike Zelman, Programs Chair

About Wood

In this month, August 2021, we look at **Cumaru** (*Dipteryx odorata*). It is a medium to large size flowering tree from the pea family, Fabaceae or the legume family (related to peas). **Cumaru** is sometimes known as Brazilian Teak. The **Cumaru** tree seeds are known as tonka beans. This seed contains coumarin, which gives the seed it's pleasant odor and is used in the perfume industry. Artificial coumarin is used as a vanilla substitute. Because of the toxicity in high concentrations, coumarin (and the Cumaru seed) has been banned by the FDA since 1954. Of interest, coumarin is also present in low concentrations in lavender, licorice, strawberries and cherries. The anticoagulant warfarin was derived from coumarin, but coumarin itself does not show strong anticoagulant properties.



Cumaru Leaves



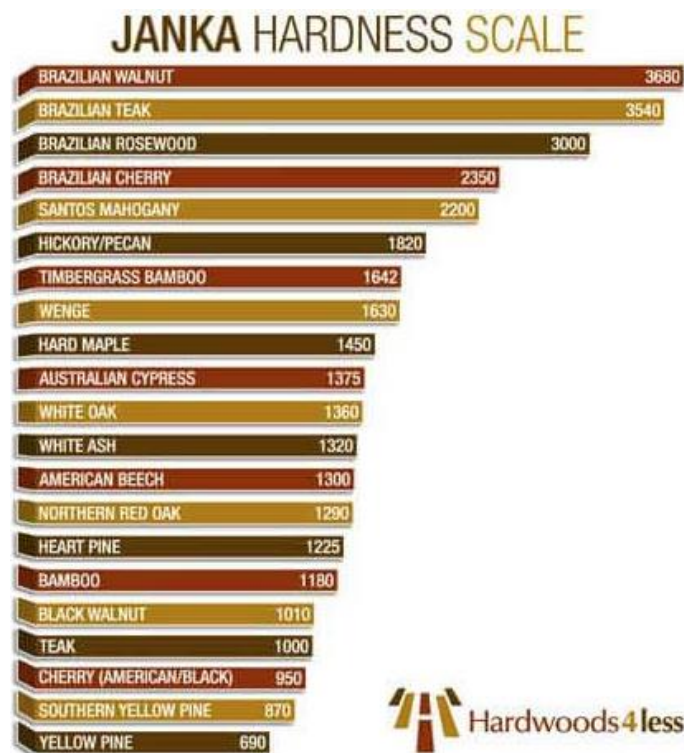
Tonka Bean



Camaru Flowers, Leaves and Bean



Large Cumaru Tree



Note Cumara (Brazilian Teak) Hardness Next to Top of the Janka Scale

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.

Cumaru

Here is a summary of the characteristics of wood from the **Cumaru** tree:

Distribution: Parts of Central America and Northern South America

Tree size: 130-160 ft (40-50 m) tall; 3-5 ft (1-1.5 m) trunk diameter; very mature, old growth trees can be over 150 feet tall and 5 to 10 feet in diameter

Average Dried Weight: 68 lbs/ft³ (1,085 kg/m³)

Specific Gravity: (Basic, 12% MC): .86, 1.09

Modulus of Rupture (MOR): 25,390 lb_f/in² (175.1 MPa)

Modulus of Elasticity (MOE): 3,237,000 lb_f/in² (22.32 GPa)

Crush Strength: 13,850 lb_f/in² (95.5 MPa)

Janka Hardness: 3,330 lb_f (14,800 N) or more

Shrinkage: Radial, 5.3%; Tangential, 7.7%; Volumetric, 12.6%; T/R Ratio, 1.5

Heartwood Appearance: Medium to dark brown, sometimes with reddish or purplish hue; some pieces may have streaks of yellowish or greenish brown

Sapwood Appearance: No information

Grain/Texture: Grain is interlocked with a medium texture and a waxy feel; the end grain is diffuse-porous

Stability: Dimensionally stable after drying; easy to dry

Relative Strength: Bending strength is fairly high

Decay Resistance: Considered very durable regarding decay resistance and insects

Workability: Difficult to work because of its density and interlocked grain; contains silica and will blunt tool cutters; can be surface-planed to a smooth finish; difficult to glue because of density and high oil content; to screw or nail pre-bore

Odor: Faint vanilla or cinnamon-like odor when worked

Toxicity: None; regular concerns for wood dust

Potency: Low

Toxicity Source: Wood dust

Reaction: Ordinary respiratory issues with dust

Sustainability: Not listed in CITES Appendices or on the IUCN Red List of Threatened Species

Uses: Flooring, cabinetry, furniture, heavy construction, docks, railroad ties, bearings, handles, and other turned objects

Typical Cost: Medium to high; \$7 to 10 per board foot

Comments: Lumber is extremely stiff, strong, and hard; sometimes used as a substitute for the scarce Lignum Vitae; the heartwood fluoresces under blacklight thus distinguishing it from Ipe; this wood has a high rating for hardness

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

Lindy Baer, Newsletter Woods Contributor

Toolbox Alerts

Woodcraft: From 1-31 August Woodcraft has some pretty good sales going per their flyer ranging from 20% to 50%. Notable items include contour sanding pads, scrapers, earmuffs, silicone mats, and a 2" table vise. They are also offering a number of classes in Aug and September that might be of interest.

Rockler: Most of you may have heard that Rockler on Colorado Blvd in Denver has added a newly expanded hardwood lumber outlet tripling their lumber space, so if attending the Aug meeting being held there for the first time in a long time, you might want to check it out.

[Editor's Note: We are looking for inputs from members each month on great woodworking tool and accessory deals that you are aware of and that are available sometime in the next month or so. The input should include a short description of the item(s), where they can be purchased with web address or location and phone info, price, and any info on your experience with the item(s). Items can include excess tools and items you want to get rid of. Call me at (719) 964-9570 if you know of an item and then I will ask you to submit a descriptive paragraph to me at JoeLenhoff@gmail.com, or to newsletter@colowood.com to add to this column. Toolbox Alert descriptions will have to be to me about 9-10 days before each meeting to get them into the newsletter.]

Sponsor's Corner [A revived column]

[Editor's Note: We are looking for a monthly spotlight on a sponsor. Any members who know one or any of our sponsors fairly well, and would be interested in writing a short piece about them, please contact me at newsletter@colowood.com. Again, Sponsor Corner spotlight articles will have to be to me about 9-10 days before each meeting to get them into the newsletter.]

CWG Sponsors

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

Website: www.acutabove.com

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

Website: www.austinhardwoods.com

Bear Woods Company. 6099 228 Street, Langley, BC V2Y 2L3 Canada. Phone: 800 565-5066. Fax: 888 599-1118. Website: www.bearwood.com

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

Website: www.wood-veneers.com

Bridge City Tool Works, Harvey Industries International DBA Harvey Industries, 10830 Ada Ave, Montclair, CA. 91763. Phone: (800) 253-3332. Website: <https://www.bridgecitytools.com/default/> . Questions or comments to sales@bridgecitytools.com. Please allow up to 2-4 business days for email and phone call responses. Two orders per year (to be determined) and must be shipped to one address. 10% discount, when ordered directly from Bridge City Tool Works. Discount does not apply when ordered through dealers

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

Website: www.usedtoolsplus.com

Denver Woodworking Company, 2062 S. Bannock Street, Denver, CO 80223. Phone: 303-733-3130.

Website: www.denverwoodworking.com

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

Website: www.milehightreecare.com

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

Website: www.paxtonwood.com/denver.aspx

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

Sears Trostel, 1500 Riverside Ave, Ft Collins, CO 80527. Phone: 970-482-1928.

Website: www.sears-trostel.com

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

Website: www.signaturemedallions.com

TC Woods, 5406 County Road 23 Ft. Lupton, CO 80621. Phone: 303-666-8989.

Website: www.tcwoods.com

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

Website: 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>

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