



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

# Colorado Woodworkers Guild

## Sept. 2021 Newsletter



### President's Corner

*Wilbur Goltermann, President*

People,

It is becoming clear that the implementation of our Media Production Center will not be finished in time for the September meeting, and it appears likely that we will not make the cutoff date for the October meeting. So without Zoom capabilities at our meetings, I will be unable to conduct the meetings. This responsibility, therefore, necessarily falls to The Guild Vice President, Devon Lindsley.

Mike Zelman has Ethan Hutchinson scheduled for the September meeting, and for October, we have Rich Johnson, Rockler's local manager, talking about famishing.

In November, we need to hold elections, and I think I need to bow out as president since, even if we get the Media Production Center under way, I seem to be having difficulty securing a decent internet connection, without which, I cannot even make reliable cell calls from my home, much less conduct Zoom meetings.

It occurs to me, also, that some Guild officers, and Board Chairpersons, may wish to be stepping down. For any of you who hold executive, or board chair positions, please let Devon know about either your willingness to continue or your need to step down. Send an email to both me ([president@colowood.com](mailto:president@colowood.com)), and Devon ([vicePresident@colowood.com](mailto:vicePresident@colowood.com)) letting us know such information.

Though I am willing to continue on as Web Master, but I need someone to temporarily take over editing and uploading the videos of The Guild's monthly meeting; uploading multiple gigabyte files at copper wire speeds would take the projected age of the universe.

So it must be that I end this message as I have ended many of my messages - **with a plea for help.**

*Wilbur Goltermann, President*

# Show and Tell

The show and tell items at the August meeting included entries from two members, Dale Bowlin and Don Prorak.

First up was Dale. He showed us two CNC carvings he made from repurposed Teak wood. The two carvings were signs he made as baby shower gifts from Grandma and Grandpa. He described new CNC software he used that made the job easier because the teak pieces he used were actually wedges, and the setup required a layout on a non-horizontal plane that the software handled easily.



Dale used Watco Light Walnut for his finish on the pieces.

Next, we had a Purpleheart & Ebony Stained Glass Frame entry from Don.



His wife had a stained-glass piece from her parents' home in Chicago that needed a frame. She loves purpleheart, which he thought complimented the colors in the glass. The inlay was ebony. It was intended both to mimic the pattern in the glass, and to reinforce the miter joints. Don hand cut cross lap joints in the inlay pieces to make them continuous and left them protruding with pyramid points to evoke Arts & Crafts design.

Since the piece is viewed from front and back, he inlaid both sides and set the glass in the frame with 1/4" strips of purpleheart and small brass screws. It was hung with brass chains (used for grandfather clock weights) in a bay window in their house. Dimensions are approximately 22" h x 24" w x 1" thick and the frame is 2-1/4" wide. Inlays are 1/4" x 1/4". As far as the finish goes, it was all scraped, then hand rubbed with Rockler Maloof mix, similar to a 1-2-3 finish. He finished this piece near the beginning of the pandemic lockdown, but this was the first time he could bring it to a live meeting.

The winner of the evening was Don with his Purpleheart and Ebony Stained-Glass Frame.

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](mailto:showandtell@coloradowoodworkersguild.org)  
Thanks, and see you at the September 2021 meeting,

*Cary Goltermann, Show and Tell Administrator*



# Meeting Presentations

## August 2021 Meeting

On August 17, 2021, we were honored to have a guild presentation by inventor and entrepreneur Mr. Andy Klein. In addition, Andy is also the vice president of product development for Magswitch technology.

Mr. Klein started the demonstration explaining how he invented the miter fold dado set, which is a product currently available at the Rockler stores. He discussed the steps he took to bring it to market, including building a prototype, talking to the Rockler corporate people, and incorporating as much flexibility in the design as practical. He discussed his costs and efforts to patent his design and the methods available for sharpening,

Mr. Klein showed the group a new knock down furniture concept, using screw heads with hidden connection drivers. The screw heads would be suitable for shelving and for flat pack higher end furniture.

He then discussed the history and uses of his 2-speed turbo vise that he has manufactured and sells directly. He wants to sell them eventually overseas but is currently back ordered on his supply. He mentioned that he has supplied one of his vises to Izzy Swan for a workbench to be fabricated for Adam Savage of the Myth Busters TV show.

Mr. Klein discussed his \$45 pencil making system and how it works; and that he can provide the leads and eraser tips.

Mr. Klein also discussed his work with Magswitch. He discussed the Magswitch featherboards, both horizontal and vertical and the microadjuster. He also displayed a shop-made, long reach clamp he designed as a plan. He also sells cork rubber that is typically used to line his vises. He noted that "All I want to do when I retire is woodwork and design woodworking tools."

He concluded the presentation with an offer to the group of a 10% discount for guild members on his turbo vise; just use code CWG on his website [https:// www.in-kleind.com](https://www.in-kleind.com), but they are back ordered.

## September 2021 Meeting

Our September 21st meeting will be the second one where we return to the Rockler basement.

Our September 21 presenter is a local Denver native, Mr. Ethan Hutchinson. His topic of discussion will be design considerations of furniture, basic design principles, and how members can design their own pieces. To quote an April 23, 2015 article in The Aurora Sentinel newspaper, "For over 21 years, Hutchinson was a Denver-based professional woodworker and furniture maker, and produced one-of-a-kind tables, chairs and just about anything else that can be crafted out of wood and fit in a home for clients across the country.... Specializing in domestic hardwoods such as maple, cherry and walnut and selling handcrafted pieces for more than \$6,000, Hutchinson said that his career path is a far cry from his childhood aspirations. The son of an artist and architect, he said that his childhood outside of Santa Fe, New Mexico was the archetype of the starving artist."

He will be bringing some design images with him. If you have design challenges or ideas, bring them to the September meeting. Also check out his website at [www.ethanhutchinson.com](http://www.ethanhutchinson.com)

*Mike Zelman, Programs Chair*

## About Wood

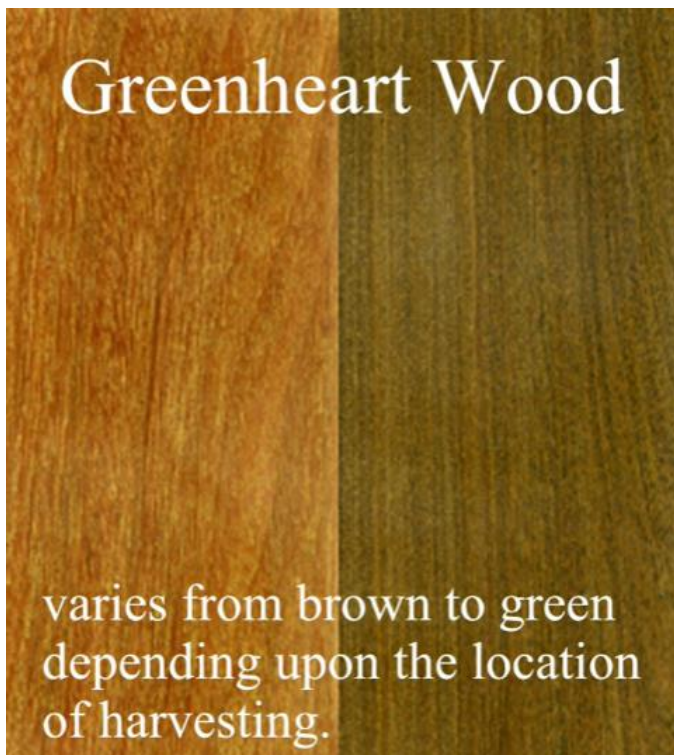
In this month, September 2021, we look at **Greenheart** (*Chlorocardium rodiei*; syn. *Ocotea rodiei*). Greenheart is a medium to large size evergreen flowering tree from the Lauraceae family. Greenheart is also known as cogwood, demerara greenheart, ispingo moena, sipiri, bebeeru and bibiru.



Old Growth Greenheart Tree



Greenheart Tree Logs



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](mailto:wood@coloradowoodworkersguild.org).

## Greenheart

Here is a summary of the characteristics of the **Greenheart** tree and wood:

**Distribution:** Northeastern South America, especially Guyana and Suriname

**Tree size:** 75-100 ft (23-30 m) tall; 1.5-2 ft (.5-.6 m) trunk diameter; very mature, old growth trees can be over 130 feet tall and 3 to 4 feet in diameter

**Average Dried Weight:** 63 lbs/ft<sup>3</sup> (1,010 kg/m<sup>3</sup>)

**Specific Gravity:** (Basic, 12% MC): .81, 1.01

**Modulus of Rupture (MOR):** 26,900 lb<sub>f</sub>/in<sup>2</sup> (185.5 MPa)

**Modulus of Elasticity (MOE):** 3,573,000 lb<sub>f</sub>/in<sup>2</sup> (24.64 GPa)

**Crush Strength:** 13,290 lb<sub>f</sub>/in<sup>2</sup> (91.7 MPa)

**Janka Hardness:** 2,530 lb<sub>f</sub> (11,260 N)

**Shrinkage:** Radial, 8.2%; Tangential, 8.9%; Volumetric, 16.5%; T/R Ratio, 1.1

**Heartwood Appearance:** Heartwood tends to be a pale olive green color with darker streaks; yellowish green sapwood is poorly distinguishable from heartwood

**Grain/Texture:** Grain is straight to interlocked with a fine to medium texture and a good natural luster

**Stability:** Dries slowly; requires careful seasoning; will check and split; warping is not serious

**Relative Strength:** High

**Decay Resistance:** Considered very durable regarding decay resistance and insects; well suited for marine environments

**Workability:** Difficult to work with hand or machine tools because of high density; will dull cutting edges quickly; finishes to a fine smooth lustrous surface; turns easily and will take a high polish; moderately good for steam-bending; glueing gives variable results; pre-boring is necessary for screws

**Odor:** No characteristic odor or taste

**Toxicity:** Reported as a sensitizer

**Potency:** Moderate to high

**Toxicity Source:** Wood dust

**Reaction:** Dust can cause wheezing, cardiac, intestinal disorders, dermatitis, and throat irritation; tendency for splinters to become infected; reaction is due to the presence of the highly poisonous alkaloid bebeerine; Brazilian natives used a related compound as a poison on the tips of arrows

**Sustainability:** Not listed in CITES Appendices; reported by the IUCN as being data deficient

**Uses:** Boat building, docks, decking, posts, lock gates, vats, fishing rods, pool cues, and other turned items

**Typical Cost:** High

**Comments:** Not easily available; lumber is extremely stiff, strong, and hard; fairly high movement in service; this wood has a high rating for hardness; occasionally violently splits apart upon sawing, sending pieces of the wood flying. Because of this issue, sawyers wrap chain around the sections of the log that have already been sawn; twice as hard as oak; the ships *Fram* and *Endurance*, made famous in the polar expeditions of Amundsen and Shackleton, were the two strongest wooden ships ever constructed and were sheathed in greenheart to prevent them from being crushed by ice.

**Sources:** The Wood Database; Woodworkers Source; Flynn, James H. and Charles D. Holder, Editors. *A Guide to Useful Woods of the World, Second Edition*. Forest Products Society, Madison, Wisconsin, 2001. Also used was a Technology Transfer Fact Sheet from the Center for Wood Anatomy Research, a USDA Forest Service Forest Products Laboratory function

If you have questions about a specific wood, don't hesitate to send a note to [wood@coloradowoodworkersguild.org](mailto:wood@coloradowoodworkersguild.org).

*Lindy Baer, Newsletter Woods Contributor*

## Toolbox Alerts

### Rockler

- The Rockler Denver store is celebrating the Grand Opening of its expansion during the month of September with giveaways and free special events on Saturdays starting in September going through 30 October. The new expanded store area has items moved out of the old store space, but most importantly, has a huge hardwood lumber outlet area. Check it out.
- The Denver store only is having a Rockler router table giveaway. Just go to <http://rockler.com/denver-giveaway-router-table> between 4 Sep and 30 Oct to enter.
- Additionally, Rockler is offering a Dream Shop Giveaway valued at over \$10,000. Just go to <http://Rockler.com/dream-shop-giveaway> and enter once before 30 Sep 2021.

### Woodcraft

- For the whole month of September Woodcraft has some great 50% off savings on a Razorssharp Seium Saku Royba saw, a 7-piece boxed Forstner bit set, a 3-piece double-cut file set, and a honing guide.
- In September and October Woodcraft has resumed offering numerous in-store classes ranging in price from \$95 to \$225 each at the Colorado Springs store. Call (719) 266-9889 for details.

[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](mailto:JoeLenhoff@gmail.com), or to [newsletter@colowood.com](mailto: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](mailto: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](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)

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

**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](mailto: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](http://www.usedtoolsplus.com)

**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)

**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)

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

Website: [www.sears-trostel.com](http://www.sears-trostel.com)

**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: 303-666-8989.

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>



# 2021 Board Members



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