



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

April 2019



President's Message

This is a non-scientific study of my dust collection system after adding a pleated filter and removing the factory bag filter. The first obvious gain was the particle size being trapped in the new filter vs the old bag filter. I went from collection in the bag of 5-micron particle size to a Merv 15 rated filter of 99.9% efficient of .5 microns after a few days of run time. That alone is huge and justified the conversion for me. However, with the pleated filter it increased my filter surface area substantially and that increased my overall CFM at my 4" hose intakes by 19%.

The filter I installed was a 35A series from Wynn Environmental.



<https://wynnenv.com/woodworking-filters/harbor-freight-collectors/>

I also built and installed their recommended filter monitor.



<https://wynnenv.com/filter-monitors/>

I now run my dust collection system to about 1.5" to 2" pressure drop before cleaning the filter. This system has been in operations for 4 months or so and I have added a Veritas Cyclone lid to a trash can.

<http://www.leevalley.com/us/Wood/page.aspx?p=30282&cat=1,42401&ap=1>

This keeps all the boulders and butterflies from hitting the impeller and the filter. Plus helps keep suction up to a maximum a lot longer. If you have any questions let me know and I will try and answer them.

Dale Bowlin President

Upcoming Meetings, Classes, and Events

Tuesday, April 16, 2019 at 6:30 pm in the basement of Rocklers

April 16, 2019 - Member Rich Macrae will present

Decorative Inlay, Banding, and Paterae; Elements of Federal furniture

In this presentation there will be a discussion of some various techniques, materials, and tools that contemporary craftsman used to accent furniture from the Federal period, this period ran from about to 1780's to the mid 1820's or so.

These techniques, while Federal period in nature can easily be adapted to more contemporary pieces of furniture or things like jewelry boxes, or keepsake boxes.

Some topics will include string inlay, how to make it and install; also, decorative banding which also has many applications other than Federal furniture, as a great accent.

In addition, we will discuss Paterae which is a small decorative inlay that is applied to the top of the table leg. When all are combined the combination can be quite stunning, which lends itself to a great deal of creativity.

Veteran Urn Project:

Currently our Viet Nam vet friends have slowed down their search for unclaimed remains. The mortuaries just don't have the backlog they initially thought they had. Not to say there are not any. We continue to provide Urns for any vet that requests one and we have a small stock on hand enabling us to do this. Thank you all for making so many.

That being said, our vet friends are busy bringing the traveling Viet Nam war memorial wall to Denver this June. They need 150 volunteers to make this happen. I will check to find out what exactly they need and let you know in case we can be helpful.

Laura Peterson

Presentation

Jeremiah Wilding on Planes

My dad was not a hobbyist but did, from time to time, have to perform basic home repairs. Lamentably, he derived no special pleasure from this but always did a competent job. Living in an extremely humid part of the country, our doors and windows seemed always to need refitting because of seasonal swelling, something you'd think would only happen once. No, this was an annual event when I was growing up. Well, every spring my dad would take out his Stanley Defiance No. 204 Iron Smooth Plane and his Stanley OH20 block plane with which to attack the sticking doors and windows, and the magic would begin. I'm six years old again whenever I see those amazing curls of wood peeling from the workpiece.

That's one thing that Jeremy Wilding's presentation did for me; it brought those warm memories back. Though I must admit that Jeremy's curls of wood were far more impressive than my dad's,

Jeremy earns his keep as a wooden plane maker. His website (jwildingplanemaker.com) shows some of his products, all meticulously crafted of quarter-sawn hard maple because of its minimal seasonal changes. His background as a trained pattern maker serves him well as a plane maker. For this evening's presentation, Jeremy used a selection of his planes to craft a picture frame with molded profiles and mitered corners, using pine this evening because it's fast and easy to work. He contrasted today's approach with that of the pre-industrial era that saw the birth of these planes wherein the material was expensive but the labor was cheap.



Starting with rough stock, he demonstrated how to square it sufficiently to eliminate any noticeable out-of-square or twist in the stock and, aided by winding boards, determined when it was flat enough to be worth investing further effort. Using a foreplane adjusted to produce shavings “as thick as an old groat,” which is about a sixteenth of an inch, Jeremy brought the piece to nearly the final dimension needed, at which point he cleaned it up with a smoothing plane.



He next cut a rabbit with a fillister (which is “rabbit plane” in Olde English), remarking that this is easy if the irons are sharp. Following this with a molding plane, Jeremy gave the frame pieces the profile he wanted. He minimized the amount of work both he and the molding plane had to do by using a foreplane to remove the triangular section of the workpiece profile that otherwise would have just worn down him and the molding plane blade unnecessarily. During the molding process, he showed the plumb line marked on the plane body to indicate the vertical orientation required by the user to orient the cutter properly so that all frame sections would have the same profile.



At this point, Jeremy was pretty well covered in curls of wood, evoking those childhood memories in me once again. He also demonstrated that we could read text through the shavings. This was an opportune time for him to remark that a properly sharpened plane blade will cut a suspended piece of paper cleanly, and that pitch will accumulate on the plane iron from time to time and can be removed periodically with a leather strop.

Finally, using a fixture to properly orient the frame sides to one another, Jeremy used a miter shooting plane to create the miters on the corners of the frame sides.

When held together, the miters were absolutely perfect and the profiles of the adjacent frame elements mated flawlessly, too.



Following the presentation, Jeremy fielded a few questions from the audience, during which we learned that:

A wood smoothing plane in daily use has a life of about 10 years,
Newer steels take forever to sharpen, with A2 singled out as the most difficult,
Plane bodies of glued wood will eventually fail, and
Hard maple plane bodies show the least seasonal change.

<http://www.jwildingplanemaker.com/>

By Bob Kleinfeldt

About Wood

In this month, April 2019, we consider **Cocobolo (*Dalbergia retusa*)**. The genus name is in honor of Nicholas and C. G. Dalberg, Swedish botanists about 1730 to 1820. , **Cocobolo** is also known as Nicaragua rosewood, granadilla, nambar, and palisandro. **Cocobolo** is from the Leguminosae, the legume family; the pea or pulse group . Cocobolo is found in western Costa Rica, Nicaragua, Panama, Mexico, Colombia, Salvador, Honduras, and Guatemala. Within the genus **Dalbergia**, there are several other closely related species found around the world, including South East Asia, India, South America, and Africa.

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.

Cocobolo

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

Distribution: Mostly in Central America (see above), especially in the dryer Pacific Coast.
Tree size: 45-60 ft (14-18 m) tall; 1.5-2 ft (50-60 cm) trunk diameter
Average Dried Weight: 69 lbs/ft³ (1,095 kg/m³)
Specific Gravity: (Basic, 12% MC): .89, 1.10
Modulus of Rupture (MOR): 22,910 lbf/in² (158.0 MPa)*
Modulus of Elasticity (MOE): 2,712,000 lbf/in² (18.70 GPa)*





Crush Strength: 11,790 lb/in² (81.3 MPa)*
 Janka Hardness: 2,960 lbf (14,140 N)
 Shrinkage: Radial, 2.7%; Tangential, 4.3%; Volumetric, 7.0%; T/R Ratio, 1.6

* Values from tentative strength group assessment per South American Timbers

Appearance: different colors ranging from yellow, orange, red, and shades of brown with streaks of black or purple;

Sapwood is typically a very pale yellow and not thick; colors darken with age

Grain/Texture: straight with some

interlocked; generally fine texture; good natural luster

Stability: very stable after seasoning, especially because of oil content; best to air dry some before kiln

Relative strength: hard, heavy, and strong; because of oil content, tolerates occasional water immersion

Decay Resistance: high natural resistance to decay and insect attack, including marine borer attack

Workability: because of oil content, does not glue well (use acetone on surfaces before gluing); will blunt cutting

tools; excellent turning properties

Odor: spice-like scent when worked; mildly fragrant; no characteristic taste

Toxicity: reported to cause skin irritation like that in poison ivy; a sensitizer and irritant;

Potency: notoriously allergenic

Toxicity Source: wood oils and wood dust; may need gloves, long sleeves, and respirator

Reaction: skin irritation; may cause nausea, asthma and other respiratory symptoms, and pink eye

Sustainability: listed in the CITES Appendices or on the IUCN Red List of Threatened Species; genus-wide;

vulnerabilities due to decline in its natural range, and exploitation

Uses: fine furniture, musical instruments, turnings, knife and other tool handles; veneer, inlays

Typical Cost: prices are very high; prices compare to other rosewoods in the Dalbergia genus

Comments: one of most highly
 Because of high density when dry, the
 will sink in water.



prized lumbers for color and figure.
 wood

Sources: Woodworkers Source;
 Hardwoods Information Center; Flynn,
 Charles D. Holder,
of the World, Second Edition. Forest
 Wisconsin, 2001.

The Wood Database; American
 James H. and
 Editors. **A Guide to Useful Woods**
 Products Society, Madison,

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

Lindy Baer

Sponsor's Corner

Austin Hardwoods

In the 80s, Austin Hardwoods of Denver used to be one of five franchises. Now there are two stand-alone Austin Hardwoods firms, ours here in Denver and one in Santa Ana, California. Randy Hass, Austin Hardwoods of Denver Manager, has been with the business for 16 years. Austin has 50 employees and stocks approximately 100 species of lumber. In addition to the lumber, they also offer an extensive list of sheet goods and mouldings. Most of the sheet goods come from the Pacific Northwest or Russia (for the birch).

In fact, mouldings is how they got their start. To this day, they have a large assortment of moulding knives, which they sharpen on site. They often do runs of custom mouldings. In addition to the lumber, sheet goods, and mouldings, they also offer table tops, stair treads, and railings.

Randy said that the greatest challenges are working with the customer expectations and also customer education. These are especially difficult areas since the wood products change from month to month and year to year. Other challenges that Austin Hardwoods faces is the worldwide nature of the hardwood market making the procurement of some woods difficult and the decline in the pool of highly skilled craftsmen (which, of course, Austin relies upon to buy and use their products).

Austin Hardwoods, located at 975 W. Mississippi Avenue in Denver, has been in its present location for 14 years. Members of the Guild have toured Austin in years past. Perhaps we will schedule a repeat tour soon. The Guild thanks Randy Hass and Austin Hardwoods for their continuing support. If you would like to know more, contact our sponsor liaison for information.

Telephone: (303) 733-1292

Fax: (303) 744-8604

Website: www.Austinhardwoods.com

Guild Liaison for Austin Hardwoods is Kevin Loyd.

liaison-austinhardwoods@coloradowoodworkersguild.org

Frank Paxton Lumber Wood of the Month

The featured Wood of the Month for April 2019 from Frank Paxton Lumber is 4Q S3S select or better Cherry in random widths and lengths.

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

Show & Tell

The March meeting for the Guild was a good meeting garnering a lot of interest, and a lot of participation in the Show & Tell with nine people entering items.

First off was Mike Seymour our in-house scroll saw master with a bowl and vase showing his steady hand and consistency. The bowl is made of thin Baltic birch while the vase is made of



jatoba and magnolia.

Rich Macrae with his jewelry box. Rich likes to make boxes during the quiet times between big projects to keep the skills sharp. The walnut box with maples splines and maple laminated stringing inlay make for classic color contrast and overall nice gift.



Bill Knoll with a box made of aspen from the backyard burn pile. Bill departed from the conventional bandsaw box configuration with this one and used a swivel lid.



The end grain was finished to a nice shine with grits up to 2000 to get the cross-section to pop.



Cliff Whitehouse brought in a wood sculpture titled “whale tale”. The technique of kerf bending was used to unique effect with the walnut splines pressed into the kerfs causing the piece to take the gentle curve.

Jason Matisheck brought in his joiner’s mallet made of hard maple and beech. The construction is the classic tapered mortise with a wedged tenon.



Ken Sanders brought in a marble labyrinth that he made with his grandson. Ken’s been a member for the past few years but has only recently in the past few months had a shop to start getting shop time. One lesson learned in the project was that Ken realized that his grandson has a knack for woodworking that surpasses his own.

Kevin Loyd brought in a pair of wood body



planes that he made. One was walnut with a cocobolo sole in the conventional coffin smoother form. The other was a lamination of oak and walnut and is a Japanese style plane.



Dale Bowlin our illustrious President brought in an end-grain cutting board. The piece started as a cross-section of a maple tree, but a large crack led to some design opportunities with some rosewood inlay work.

The winner of the night was Dick



Dailey with his bent lamination bowl and stand. The bowl is white oak, but he fumed the

wood to take on a much darker color. Give the shape the clamping for the glue-up was the greatest challenge.



Thank you to everyone that brought your items in for the show and tell. It is one of the key events of every meeting as it shows the rest of the group what we are working on. There is the additional benefit that it helps to encourage others to try new and different things.

Kevin Loyd Shows & Exhibits Chair

**Friday 11th & Saturday 12th
October 2019**

Embassy Suites by Hilton - Denver
Downtown Convention Center
1420 Stout St, Denver CO 80202

DENVER
Vectric
USER GROUP MEETING
2019

The banner features a scenic background of snow-capped mountains and a blue lake. On the left is a blue mountain-shaped logo with the word "DENVER" in orange, "Vectric" in white, and "USER GROUP MEETING 2019" in white. On the right, the event dates and location are listed in white text.

CWG Sponsors

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: 3-666-8989

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>

2019 Board Members



[Dale Bowlin](#) - President
president@coloradowoodworkersguild.org



[Tom Mancuso](#) - Vice President
vicepresident@coloradowoodworkersguild.org



[Donald Prorak](#) - Secretary
secretary@coloradowoodworkersguild.org



[Chuck Hix](#) - Treasurer
treasurer@coloradowoodworkersguild.org



Bob Kleinfeldt Director at Large, Newsletter Editor
info@coloradowoodworkersguild.org



Bill Knoll - Audio / Visual Chair



Ed Lawlor – Community Services Chair



Lindy Baer - Contributing Editor
wood@coloradowoodworkersguild.org



[Michael Cunningham](#) - Classified Ads Moderator
classifiedads@coloradowoodworkersguild.org



[Dick Dailey](#) - Hospitality & Refreshments Chair
hospitality@coloradowoodworkersguild.org



[Jim Barry](#) - Librarian
library@colordoawoodworkersguild.org

Vacant- Newsletter Publisher
newsletter@coloradowoodworkersguild.org



[Cary Goltermann](#) - Programs Chair
programs@coloradowoodworkersguild.org
webmaster@coloradowoodworkersguild.org



[Kevin Loyd](#) - Shows and Exhibits Chair



Christine Benson – Social Media Chair



Stan Wolpert – Classes Chair
classes@coloradowoodworkersguild.org

Help Wanted

Vacant- Publicity and PR Chair

Vacant – Newsletter Publisher

Assistance – Community Services Chair

Needed- Webmaster - webmaster@coloradowoodworkersguild.org

Class Schedule at our sponsor's facilities
Rockler

*For More Information Ask an Associate
 Or*

<https://www.rockler.com/retail/stores/co/denver-store>

Woodworking 101 - Bookcase with Tracy Gray	3	Apr 6, 19	9:00 AM	Apr 7, 19	1:00 PM	8	9
Spindle Turning with Bruce Perry	3	Apr 13, 19	9:00AM	Apr 13, 19	4:00PM	5	9
Faceplate Turning with Bruce Perry	3	Apr 14, 19	9:00AM	Apr 14, 19	4:00PM	5	9
The Very Beginning: A Class for New Turners with Bruce Perry	3	Apr 21, 19	9:00AM	Apr 21, 19	4:00PM	5	9
Router Workshop with Michael Morris	3	Apr 27, 19	9:00 AM	Apr 27, 19	4:00 PM	10	9
Finishing Hands On with Rich Johnson	3	May 4, 19	9:00 AM	May 4, 19	4:00PM	12	9
Woodworking 101 - Table with Tracy Gray	3	May 11, 19	9:00AM	May 12, 19	1:00PM	8	9
The Very Beginning: A Class for New Turners with Bruce Perry	3	May 25, 19	9:00AM	May 25, 19	4:00PM	5	9
Spindle Turning with Bruce Perry	3	May 26, 19	9:00AM	May 26, 19	4:00PM	5	9

Woodcraft

~ April 2019 ~						
◀ Mar 2019						
		May 2019 ▶				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 Relief Carving (1 of 4) 6-9p Charlie Milliser (\$130)	5	6 Basic Cabinet Construction (1 of 2) 9a-5p Gus (\$195)
7 Basic Cabinet Construction (2 of 2) 9a-5p	8	9	10	11 Relief Carving (2 of 4) 6-9p	12	13 Woodworking 101 (1 of 2) 9a-5p Doug M. (\$195)
14 Woodworking 101 (2 of 2) 9a-5p	15 Tax Day (Taxes Due)	16	17	18 Relief Carving (3 of 4) 6-9p	19 Good Friday	20 Router Basics 10a-5p Brendan (\$100)
21 Easter STORE CLOSED	22 Earth Day	23	24	25 Relief Carving (4 of 4) 6-9p	26 Arbor Day	27 Intro to Turning 9a-5p Doug G. (\$105)
28 Sharpen Turning Tools 9a-1p Don (\$70) ----- Turn A Pizza Cutter 2-6p Andy (\$75)	29	30	Notes:			

Woodcraft

Jun 2019 ►						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 Relief Carving (1 of 4) 6-9p Charlie Milliser (\$130)	3	4 Turn a Bowl 9:30a-4:30p Doug G. (\$110)
5 Knife Making 10a-4p Brendan (\$115)	6	7 Woodworking 101 (1 of 4) 6-9:30p Shawn (\$195)	8 Woodworking 101 (2 of 4) 6-9:30p	9 Relief Carving (2 of 4) 6-9p	10	11 Bandsaw 101 10a-4p Jim (\$95)
12 Mother's Day Natural Edge Bowl Turning 9:30a-4:30p Doug M. (\$115)	13	14 Woodworking 101 (3 of 4) 6-9:30p	15 Woodworking 101 (4 of 4) 6-9:30p	16 Relief Carving (3 of 4) 6-9p	17 Build A River Table (1 of 3) 6-9p Brendan (\$1,800)	18 Armed Forces Day Build A River Table (2 of 3) 9a-5p
19 Build A River Table (3 of 3) 9a-5p	20	21	22	23 Relief Carving (4 of 4) 6-9p	24	25 Intro to Turning 9a-5p Doug G. (\$105)
26 Scroll Saw 101 9a-1p Jim (\$75) ----- Intro to Finishing Shawn 2-6p (\$95)	27 Memorial Day STORE CLOSED	28	29	30	31	Notes:

<https://www.woodcraft.com/stores/denver/blog/tagged/Class>