



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

May 2016

President's Message

Being Involved

Funeral Urns Project

Our Treasurer, Laura Peterson, has been heading up the effort to build funeral urns for the unclaimed remains of deceased veterans. This project came to us from a local chapter of Vietnam Veterans of America. They asked if we could provide a simple box in which these unclaimed remains could be placed. Many have contributed their time to build one or more of these boxes. Paul Seipel (aka Bandsaw box Paul) took the time to ask the folks at Mile High Tree Care if they would donate wood to the project. We have wood for this and Mile High will provide as much as we need. The instructions for the box are on our web. Laura coordinates with the Vietnam Vets and engraves the boxes with the service branch from which the Veteran's cremains came. If you'd like to build one or more of these, the instructions are here <http://coloradowoodworkersguild.org/index.php/members-corner/plans-references/fine-woodworking-plans/details/21/1/fine-woodwork>.



Here is a picture of the most recent set of urns.



Aurora KidSpree

For as long as I've been involved with the guild the Community Service committee has had a booth at the *Aurora KidSpree*. where kids can build a simple wooden birdhouse. A drawing for the birdhouse

parts is available on our web [here](#). There is also a Sketchup model of the birdhouse that can be downloaded [here](#). If you'd like to help, talk to Charlie Kuechenmeister at the next meeting.



Setup and Teardown Committee

Last month our refreshment guy, Dick Dailey, was unable to make it. I made our coffee and set out what we had in the way of snacks. This got me thinking that we could use an actual refreshment committee rather than a single member. I ran this by Dick and he agreed that we should have a setup/teardown committee rather than just a refreshment committee. How about it? If we could get eight members on this committee and had two members per month responsible for setup/teardown/refreshments, each member would only need to do this three times per year. If you have some time and attend the monthly meetings, let us know and we'll get this committee set up.

Auction

We didn't have an auction in 2015 and unfortunately ended up spending more for the year than we took in. So we are planning an auction for 2016. Got something to donate? We have room to store it. Drop an email to president@coloradowoodworkersguild.org.

Cary Goltermann - Le Président

April 2016 Program

Another Way to Scary Sharp

Jim McNamee



Just as there are many different joints to choose from when fastening two boards together, there are many ways to sharpen the tools that make them. Guild members Kevin Loyd and Dennis McCaigue teamed up to discuss their favorite sharpening techniques.

Unlike some who use a progression of sandpaper grits to sharpen chisels and plane blades, Dennis and Kevin get right to the point. They use an ordinary grinding wheel to remove most of the unwanted steel. Among grinding wheel enthusiasts, slow-speed grinding wheel systems are popular because their very low speed (90-100 RPM) minimizes the risk of overheating tool steel and ruining its temper. The downsides of slow-speed wheels are they are expensive and sharpening can take quite a while. Dennis and Kevin find they can use high speed grinding wheels (spinning at 3,400 RPM) and safely get excellent results. Yes, there's a risk that removing metal too fast will cause chisel and plane blades to overheat and lose temper. But by being less aggressive or by cooling the steel while grinding (e.g., placing an ice cube on the blade) they can preserve the steel's temper.

One key to success in this approach is deglazing and dressing the grinding wheel used. Over time, grinding wheels clog with metal debris. It's important to restore a fresh cutting surface to the wheel. Without this step, grinding is slower and it generates excessive heat. Wheel dressing sticks are inexpensive and simple to use. By the way, they're a worthwhile investment if you use a grinding wheel for any task.

A second secret to success is removing any protective coating from the metal surfaces of new tools before sharpening them. Although protective coatings help prevent rust, they will clog a grinding wheel and contribute to overheating during sharpening. This is also good advice no matter what sharpening method you use.

Once the desired angle for the chisel or plane blade tip is achieved, it's time to bring it to a razor's edge. The thinner the edge, the sharper the tool will be and the more easily it will cut. Dennis uses an 800-grit sharpening stone followed by an 8,000-grit stone to remove grinding wheel marks and attain a smooth straight edge. Years of experience lets him to do these steps without a jig or tool fixture. The final sharpening step is removing the burrs left by

the stones. A few swipes on a leather strop charged with fine grained chromium oxide compound produces a very sharp cutting edge.

Kevin and Dennis' presentations gave members the knowledge and confidence to use another approach to tool sharpening. No matter what method you ultimately choose, the takeaway from this month's presentation can't be overemphasized: Always start with a sharp tool and re-sharpen it when it gets dull. Woodworking with hand tools is more enjoyable and the results are better when they can cut cleanly and easily.



Membership

Membership Problems??? Send an email to president@coloradowoodworkersguild.org

Do you have issues with your CWG account at <http://coloradowoodworkersguild.org> such as

- Unable to remember your username?
- Can't remember your password?
- Want to change your username, password, address, woodworking interests or other item associated with your memberships?

These issues can now be handled on line! I am still happy to help as needed.

Go to <http://coloradowoodworkersguild.org/index.php/public-corner/faqs>, where you'll find instructions for all these issues and more. You do not need to login to view this information. Take a look!

Happy April!

Here is the membership status as of this writing (May 4, 2016):

82 Members paid through the end of 2015

222 Members paid through the end of 2016

222 Active memberships total

I sent an email some time ago informing lapsed members that they were, in fact, lapsed. Many did not respond. This is normal; people move away or find that they do not wish to continue membership. Many did respond and did renew. Many said they would renew and have not. I'm not really sure how to deal with this. If you intend to renew and have not, please do so.

The 2016 member cards look like this (member name/expiration in black text on a yellow background). If your member card does not look like this, it is expired.



Cary Goltermann - Assistant to the Membership Chair

About Wood

For May 2016, as in April, instead of staying with North American woods, we consider **Wenge**. There are many more North American hardwoods to cover and we will soon return to some of those.

Wenge (*Millettia laurentii*), one of many of the primarily tropical trees in the family *Fabaceae* or *Leguminosae* (over 18,000 species of trees, shrubs and perennial or annual herbaceous plants; yes, **Wenge** is a legume like peas or alfalfa). **Wenge**, like the related woods from partridge wood, canary wood, tulipwood, East Indian Rosewood, cocobolo, Honduras rosewood and African padauk, is often used as inlays, in musical instruments, in carving, and for other accents in fine woodworking pieces. In addition, **Wenge** is used for heavy construction, crossties, tool handles and cabinets.

The tree known as **Wenge** is also called **faux ebony**, **Dikela**, **African rosewood**, **mibotu**, **bokonge** and **among**. **Wenge** grows in West Africa, especially in the Republic of Congo, the Democratic Republic of Congo, Cameroon, Gabon, Zaire, southern Tanzania, Mozambique and Equatorial Guinea. The species is listed as "endangered" in the International Union for Conservation of Nature (IUCN) Red List principally due to destruction of its habitat and over-exploitation.

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.

Wenge generally does not grow anywhere except in central and West Africa (see above).



Characteristics of **Wenge**:

Distribution: equatorial central and West Africa

Tree size: 60-90 ft. (18-27 m) tall; 3-4 ft. (1-1.2 m) trunk diameter

Average Dried Weight: 54 lbs/ft³ (870 kg/m³)

Specific Gravity: (Basic, 12% MC): .72, .87

Modulus of Rupture (MOR): 21,990 lbf/in² (151.7 MPa)

Modulus of Elasticity (MOE): 2,550,000 lbf/in² (17.59 GPa)

Crush Strength: 11,710 lbf/in² (80.7 MPa)

Janka Hardness: 1,930 db_f (8,600 N)

Shrinkage: Radial, 4.8%; Tangential, 8.1%; Volumetric, 12.9%; T/R Ratio, 1.7

Heartwood Appearance: medium brown, sometimes with a reddish or yellowish hue, with nearly black streaks; may appear nearly black with finish

Sapwood Appearance: whitish

Grain/Texture: straight with coarse texture and low luster

Stability: excellent

Relative strength: excellent

Decay Resistance: very durable and resistant to insect attack

Workability: can be difficult to work because of high density; has dulling effect on cutters; will splinter and splinters can become infected

Odor: mild, slightly bitter scent when being worked

Toxicity: reported as an irritant and sensitizer

Potency: high; severe reactions are uncommon

Toxicity Source: mostly dust and wood (watch out for splinters)

Reaction: central nervous system effects, abdominal cramps, eye, skin and respiratory

Sustainability: endangered

Uses: parts of musical instruments (including organ pipes), turning, furniture accents, inlays, carvings, heavy construction, ship/boat building, crossties, flooring, veneer, and cabinets

Typical Cost: high; sometimes difficult to obtain

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

Show & Tell

Editors Note

Show & Tell information was not available at the time of publication.

An updated edition will be published when the information becomes available.

Al Limiero - Editor

Sponsor's Corner

Profile

TC Woods

Mission Statement: We are dedicated to preserving as many trees as possible as wood products and to strengthen and increase our local, urban forest.

TC Woods (see www.TC Woods.com) is Colorado's premier urban sawmill. In 1995, Dan Odell, an arborist, was no longer content with dumping or chipping wood waste generated by homeowners and arborists who remove trees. Valuable logs that could be cut into lumber and commercial wood products were included in this "urban waste." Using an attachment to his chainsaw to create a band saw, he began sawing logs into lumber. In 1996, he opened TC Woods in Fort Lupton to receive logs and manufacture lumber from any species of wood that grows locally. This now includes more than 20 species of hardwoods as well as native softwoods and poplars.

TC Woods is open five days a week. They offer custom milling and a variety of partially or fully finished furnishings. Their inventory includes both rough-sawn and finished lumber, natural edges, ready-made tabletops, shelving, trim, mantles, beams and boards from 6 inches to 4 feet wide and 2 feet to 14 feet long. Custom milling services can be as small as 6-8 inches and as long as 3 feet (greatest efficiency is for 1-3 feet in diameter and 4-14-foot lengths. They have the capability to band-saw mill up to 40-inch diameter by 20-foot long logs.

The TC Woods website includes information on a number of wood related topics, which may be of interest.

Guild Liaison for TC Woods is Bob Beason

liaison-tcwoods@coloradowoodworkersguild.org

Frank Paxton Lumber Wood of the Month

The featured Wood of the Month for May 2016 from Frank Paxton Lumber is four-quarter (4Q), S3S Red Oak in random widths and lengths.

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

Upcoming Events

Students Wanted for Industrial Metal Arts Continuing Education

The Community College of Denver (at its new Advanced Manufacturing Center at the NW Denver campus) is considering starting a non-degree continuing education program in the metal arts geared primarily toward the hobbyist wishing to develop or improve skills in the metal arts. These may include classes in cutting, brazing, welding, milling, metal lathes, safety and metrology. Classes may be structured around day or evening times with the possibility of open-shop hours for students to work on their own projects. An organizational meeting is planned for later this spring; if interested, please contact Richard Rosen richardlawrencerosen@gmail.com.

Festool North American Roadshow



The Festool North American Roadshow is coming to town. Please join us for this exciting event. Our experienced staff will be there to answer questions and demo our innovative unmatched line of power tools. For more info, visit: festoolusa.com/roadshow

Austin Hardwoods of Denver

975 W Mississippi Ave
Denver, CO 80223

Thursday May 19, 2016
10:00am -2:00pm



2016 Guild Officers

Cary Goltermann – President

president@coloradowoodworkersguild.org

Jim McNamee—Vice President

vice-president@coloradowoodworkersguild.org



Laura Peterson – Treasurer

treasurer@coloradowoodworkersguild.org

Gary Glatthar – Secretary

secretary@coloradowoodworkersguild.org

Bob Kleinfeldt – Board Member at Large
email address pending



Guild Committee Chairs

Audio – Video – Committee

video@coloradowoodworkersguild.org

Classes - **Vacant**

classes@coloradowoodworkersguild.org

Community Service - Charles Kuechenmeister & Jeff Roth

community-service@coloradowoodworkersguild.org



Newsletter Editor – Al Limiero

newsletter@coloradowoodworkersguild.org

Programs - **Vacant**

programs@coloradowoodworkersguild.org

Publicity and Public Relations - Jack Brock

publicity-pr@coloradowoodworkersguild.org

Shows and Exhibits – Kevin Loyd

shows@coloradowoodworkersguild.org



Librarian - Chuck Hix

library@coloradowoodworkersguild.org

Refreshments – Dick Daily

hospitality@coloradowoodworkersguild.org



Membership – Dennis Machlica

membership@coloradowoodworkersguild.org

Classified Ads – Michael Cunningham

classifiedads@coloradowoodworkersguild.org



Webmaster – Wilbur Goltermann

webmaster@coloradowoodworkersguild.org

CWG Sponsors

The Colorado Woodworkers Guild is fortunate to have several companies as Sponsors. The 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

CWG Sponsor List

A Cut Above 16512 Arminta Street 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

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

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

Collector's Specialty Woods

Collector's Specialty Woods 4355 Monaco Street, Unit A Denver, CO 80216 (this is their Denver show-room and warehouse)

Collector's Specialty Woods 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

EZ Dado 5220 E. 130th Circle Thornton, CO 80241 Phone: 303-902-8134 Website: www.ezdado.com

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

Mountain View Window and Door 815 S. Jason Street Denver, CO 80223 Phone: 303-649-2217 Website: www.mtnview.us

Frank Paxton Lumber Company 4837 Jackson Street Denver, CO 80216 Phone: 303-399-6047 Website: www.paxtonwood.com/denver.aspx

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

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>

12/09/2015

Login Information

Full Name

Email Address

Username

Badge Name

Contact Information

Street Address

State

Phone Number

City

Zip Code

Website

Guild Participation Profile

- | | | | | |
|-----------------------|---|---|---|--|
| Woodworking Interests | <input type="checkbox"/> Cabinet making | <input type="checkbox"/> Home remodeling | <input type="checkbox"/> Hand tools | <input type="checkbox"/> Tools, jigs, shop |
| | <input type="checkbox"/> Furniture | <input type="checkbox"/> Small projects | <input type="checkbox"/> Turning | <input type="checkbox"/> Veneering, Inlay |
| | <input type="checkbox"/> Wood Bending | <input type="checkbox"/> Other | | |
| Willingness to Mentor | <input type="checkbox"/> Cabinet making | <input type="checkbox"/> Home remodeling | <input type="checkbox"/> Hand tools | <input type="checkbox"/> Tools, jigs, shop |
| | <input type="checkbox"/> Furniture | <input type="checkbox"/> Small projects | <input type="checkbox"/> Turning | <input type="checkbox"/> Veneering, Inlay |
| | <input type="checkbox"/> Wood Bending | <input type="checkbox"/> Other | | |
| Willingness to Serve | <input type="checkbox"/> No Interest | <input type="checkbox"/> Maybe Later | <input type="checkbox"/> Elected office | <input type="checkbox"/> Community service |
| | <input type="checkbox"/> Membership | <input type="checkbox"/> Public relations | <input type="checkbox"/> Meeting programs | <input type="checkbox"/> Class committee |
| | <input type="checkbox"/> Library | <input type="checkbox"/> Newsletter | <input type="checkbox"/> Shows & exhibits | <input type="checkbox"/> Website |
| | <input type="checkbox"/> Audio/Video | <input type="checkbox"/> Other | | |

Shared Information

Do you wish to share your portrait and woodworking biography:

☐ Yes ☐ No

Woodworking Biography:

Please return this form at any Guild meeting or via mail to:
Colorado Woodworkers Guild, P.O. Box 100996, Denver, Colorado 80250
ColoradoWoodworkersGuild.org
(303)523-8960