



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

March 2016

Presidents Message

Bandsaw Box Class:

We have scheduled a bandsaw box class for the first two Saturdays in April. The class can accommodate six students and will be taught by Paul Seipel. Cost is \$80 per student. If you want to take the class, please bring a check to the upcoming member meeting on March 15. If there is enough interest, we will schedule another class.



Rockler Basement Stair Project:

I have only gotten responses from 6 (yes six) members on this project! Please let us know what you think.

As you might be aware we are not the only club that meets in Rockler's basement. Others are The FrontRange Woodturners and The Rocky Mountain Shipwrights. At our January Board of Directors meeting we were approached by members of the Shipwrights about a project to install powered chairs on the stairs into the basement meeting room. The project would install two powered chairs; one from the store to the first landing another from the landing to the basement. This approach was chosen as it is much less expensive than a single chair from the store to the basement. The cost of this is quoted at \$10801.75, which would be split by us, Woodturners, Shipwrights and Rockler, or about \$2700 per group. Colorado Woodworkers Guild does not have this much available. If each of our 270 members were to contribute \$10 we could meet this cost. How do you all feel about this? Drop an email to info@coloradowoodworkersguild.org and let us know your opinion.

Auction:

We didn't have an auction in 2015 and unfortunately ended up spending more 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.

March Meeting:

Member Scott Roth will give us a presentation on Marquetry. Scott spent some time in Europe last year examining examples of old marquetry. His presentation will cover what he learned on this adventure.

Upcoming Events

March 15, 2016 - Member Scott Roth will give us a presentation on Marquetry. Scott spent some time in Europe last year examining examples of old marquetry. His presentation will cover what he learned on this adventure.

April 19, 2016 - I am in the process of setting up this presentation.

April 24, 2016 - The Colorado Arts and Crafts Society Presents A Gathering Of The Guilds at The Boettcher Mansion from 10 AM - 4 PM. The Guild will have a table there. Come to see work from all sorts of craft groups. If you'd like to help staff the table please let us know.

May 17, 2016 - Member Mike Farrinton (who gave a mini-demo on Variable Frequency Drives a few months back) will give us a presentation on his technique to make "Hand Cut" dovetail joints. His method uses a few shop built jigs, two cheap handsaws and a palm router (his words not mine). Here are some pics of his work:

October 18, 2016 - Guild Auction. We didn't have an auction in 2015 and unfortunately ended up spending more 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 to4

President @coloradowoodworkersguild.org

Cut Elegant Profiles Like an 18th Century Craftsman by Jeremiah Wilding



Long before there was a shaper, a router or even electricity in the workshop, woodworkers were creating beautiful profile details for their hand-crafted furniture. They did it, some would say, the easy way – with hand tools. Assorted hand planes, each dedicated to cutting a particular profile, were mainstays of the cabinet making trade. Jeremiah Wilding, a local professional woodworker, shared with us the art of making cabinet parts in the traditional manner practiced in the 1700s.

Jeremiah began woodworking when he was 12. Inspired by Roy Underhill, he's made nearly all of the hand tools he uses today. He made his first hand planes from scratch while still a teenager. Each of his planes was inspired by, but is not a direct copy of, an authentic 18th-century version. Wilding constructed them from quarter-sawn hard maple. He chose maple because it is more stable during changes in humidity and temperature than the more traditional choice of beech. His plane irons are made from O1 tool steel ground, hardened and fitted to each plane's profile.

Wilding refined his woodworking skills first while working as a pattern maker, then as a timber framer. He apprenticed with a French Compagnon (a guild journeyman dating from the Middle Ages) who himself had apprenticed in old style ways of timber framing. The Musée Compagnonnage de Tours, located in Tours, France, displays the range of skills taught to its apprentices

(<http://www.museecompagnonnage.fr/page-accueil-an.html>)

Subsequently, Jeremiah trained with a German master cabinet maker to further advance his skills.

Jeremiah brought a few of his hand-made 18th century reproduction planes and demonstrated how he uses them to make raised-panel cabinet doors. He began by flattening and squaring up a board that would become a stile. He showed how to plane out twist, square up an edge and bring the board to desired dimensions. These steps were accomplished with flat-soled fore, jointer and smoothing planes and a small square. In less than a minute, Wilding's skilled hands put a thumbnail profile on the stile using a specialized plane. A minute later, he'd added a dado to accommodate a raised panel using yet another special hand plane. Shaping the panel's edge took a third specialized plane and a few

minutes more. Finishing it off, Wilding fashioned a length of decorative bolection molding with yet another specialty plane.

Jeremiah welcomed questions during his presentation and stayed around afterward to explain in more detail how he designs and builds planes.

By Jim McNamee



Show and Tell

Coming off a good January meeting, the February meeting was grrreat with eight members bringing in their items to share.

Richard Bosler brought in a heart-shaped box that he made using a Legacy CNC machine. The box was made of padouk, which is a fairly hard wood, making the CNC a much less tiresome option. The trick to making this project a success was getting the two sections of the lid to fit together as well as the box.

Next up was **Bill Knoll** with his candle stands that he made as Christmas gifts. The selection that Bill brought in consisted of aspen, cherry and Russian olive. Bill's suggestion was to use the battery-powered LED candles as they add a factor of convenience and longevity over standard candles. Also, the variations provided by the standard wood pile mean each is different from the next.

Doug Pinney brought in a plaque that he made with his CNC machine. Despite his claims that there is a mistake, his wife declared that she liked it, which saved it from the burn pile.

Jim Bewly brought in a few items he made with walnut and maple. Choosing these woods because he likes the contrast, he brought two planes that he made, as well as a spinning top. Like most of the toys we make, they quickly find a new home away from the shop, which is what happened to the other three toys Jim made.

Scott Roth, the ever present member of both the Woodworker's Guild and the marquetry group, brought in a piece for a contest they had. Given marquetry is typically executed with a wide variety of species, this was a contest to see what could be done using only one species of wood. It sounds like a painter doing a portrait while only using the color orange, but Scot prevailed in a representation of the sea floor. The concept of a constrained challenge project would be an interesting one to apply to our group's diverse skill base.

Dave Johnson brought in a group of toy cars he made using redwood and pine. Again, this makes for a pleasant two-tone construction. The cars are based on designs by a certain *Continued on next page*



Jeff Ross, but more important have certain attributes that determine their success. First, they have to withstand the rigors of an active three-year-old boy, they must be cheap and quick to make, and they need to resemble an actual car. Fortunately, all of these design constraints align with the Guild's annual Christmas toy project, and Dave has continued interest in making more cars as a part of the toy program. Thank you for the addition to the toy program Dave it will be greatly appreciated.

Kevin Loyd (I don't frequently refer to myself in the third person) brought a saw stand that he recently completed to hold his working collection of joinery saws. This was to be a prototype of a saw till inspired by the "Red and Blue Chair" of Gerrit Reitveld, but impatience and reality won out and the prototype became the final piece. Incidentally, Kevin's other saw till for his panel saws is done in a Greene and Greene style.

The winner of the night was **Jim Barry** with his photograph. Jim wasn't confusing the Woodworker's Guild with the photography club. It was a photo of a headboard and footboard set that he made from a lot of cedar boards that he had previously picked up at a Guild auction. Given the size and weight of the bed, Jim opted for the photo representation of his handiwork. Congratulations to Jim and thank you to everyone who brought in their work to be seen by the rest of the group. Remember that each month the show and tell is one of the staples of the meeting so please continue to bring your pieces and tell the rest of us what you've been doing.

Kevin Loyd - Shows & Exhibits

Show & Tell photos on following page.

Show & Tell Photos



About Wood

This month, instead of staying with North American woods, we consider **Brazilwood**. Some of you will recall that not long ago we had a presentation on the fabrication of bows for stringed instruments like violins, violas, cellos and the double bass. We learned that for centuries, the wood of choice for such bows has been **Brazilwood**.

The tree known as **Brazilwood** is also called **Per-nambuco** (from the Brazilian state of Pernambuco on the northeast coast) or **Pau Brasil** with the scientific name of **Caesalpinia echinata**. This tree was discovered by the Portuguese in the 1500s and highly prized as a source for red dye. In fact, the country of Brazil was named after the tree **Pau** (wood) **brasil** (Portuguese for red/ember-like). For its dye qualities and later for use in stringed instrument bows (also furniture and turnings), the availability of this wood has been severely reduced.

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.

Brazilwood generally does not grow anywhere except in the coastal forests of eastern Brazil. Because of over harvesting and habitat reduction, the cutting and exporting of this valuable wood is highly controlled.



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

Distribution: Coastal regions of eastern Brazil

Tree size: 30-50 ft. (9-15 m) tall; 2-3 ft. (0.6-1.0 m) trunk diameter

Average Dried Weight: 61 lbs/ft³ (980 kg/m³)

Specific Gravity: (Basic, 12% MC): .76, .98

Modulus of Rupture (MOR): 26,010 lbf/in² (179.4 MPa)

Modulus of Elasticity (MOE): 2,544,000 lbf/in² (17.55 GPa)

Crush Strength: 5,540 lbf/in² (38.2 MPa)

Janka Hardness: no data available

Shrinkage: Radial, 5.1%; Tangential, 8.1%; Volumetric, 13.3%; T/R Ratio, 1.6

Heartwood Appearance: yellowish orange to darker reddish brown

Sapwood Appearance: white to yellow and clearly demarcated

Grain/Texture: straight, though sometimes interlocked; fine even texture with good natural luster

Stability: excellent

Relative strength: excellent

Decay Resistance: excellent

Workability: despite high density, **Brazilwood** is very workable, responding well to machining and shaping

Odor: no characteristic odor

Toxicity: reported as an irritant; other effects such as headache, nausea, swelling skin, and blisters

Potency: moderate; severe reactions are uncommon

Toxicity Source: mostly dust

Reaction: eye, skin and respiratory

Sustainability: threatened and highly controlled

Uses: stringed instrument bows, veneer, turning, furniture, inlays, carvings

Typical Cost: very high; often not available

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

Community Service

CALL FOR VOLUNTEERS

KIDSPREE

(Bird House Project)

The City of Aurora will hold its annual KidSpree Event this year on **JUNE 11**. The Guild has participated in past years by building bird-house 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 to have enough volunteers at the Event itself to spread the work out over as many sets of hands as possible. The Event runs from 10:00 AM. to 6:00 PM. We try to break that up into two four-hour shifts so nobody has to spend the whole day there if they don't want to. We need between six and eight people to staff each shift. We can always use help building and assembling the kits, but the critical part of this effort is staffing the booth at the event. If you are interested, a sign-up sheet will be available at the next Guild meeting, or you can contact Charlie Kuechenmeister at

charlesk13@gmail.com

or Jeff Roth at

jeffroth@myawai.com,

or let one of us know at a Guild meeting. It's a fun time. All are welcome!

Sponsor's Corner

Liaison Needed

Our Guild is fortunate to have 16 sponsors businesses who support our Guild through offering discounts to our members as well as occasionally donating products for prizes, raffles or our auction. Generally, Guild members serve as liaisons to the sponsors. The sponsor liaison maintains contact with the sponsor to keep sponsor information up-to-date, inform the sponsor of Guild activities, know the sponsor's services and products and communicate to the sponsor on behalf of the Guild. Currently the Guild needs liaisons for a sponsor to interface with **Signature Medallions** of San Diego.

If you have an interest in helping out in this way, please contact **Jack Brock** at publicity-pr@coloradowoodworkersguild.org or 303-830-1882.

Paxton Wood of the Month

The Wood of the Month for March 2016 at Frank Paxton Lumber is 4Q Popular. The lumber comes surfaced on three sides (S3S) in 7 foot lengths. As usual, please call 303-399-6047 for pricing.

Library

From the Librarian's Assistant

First, many thanks to **Roger Abraham** who has managed the Guilds library for the past two years with nary a complaint.

Second, welcome to **Chuck Hix**, our new librarian. Chuck has been filling in setting up refreshments for several months. He recently turned refreshments back over to Dick Dailey and asked where else he could help. Here is Chuck's pic. Say hi to him at the next meeting and thank him for his efforts.



Third, we are in the process of entering all of the Guild's library materials into a package on our web. If you'd like to see it go to

http://coloradowoodworkersguild.org/index.php/members-corner/guild-library/148/all_category



you will have to log in to access this. If you go to the above address, you'll see this page

Click on either of the folders and you'll see our inventory of DVDs or books. Currently only one DVD is entered. That will probably change by the time you read this newsletter.

This will help the Guild (i.e.. Chuck) to maintain and improve our library.

Please note: borrowing a book will require an up-to-date membership.

Cary Goltermann - Assistant to the Librarian

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**
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Publicity and Public Relations - Jack Brock
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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

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 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

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

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

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>

Login Information

Full Name	<input type="text"/>	Username	<input type="text"/>
Email Address	<input type="text"/>	Badge Name	<input type="text"/>

Contact Information

Street Address	<input type="text"/>	City	<input type="text"/>
State	<input type="text"/>	Zip Code	<input type="text"/>
Phone Number	<input type="text"/>	Website	<input type="text"/>

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