



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

July 2018

Upcoming Presentations & Events

Membership meetings are at **6:30 PM on the third Tuesday of every month** (except December) at Rockler Woodworking and Hardware, 2553 South Colorado Boulevard in Denver ([Click for map](#)). Guests are always welcome.

Note: I am in the process of rearranging the August/September presentations. They will likely change in the next few weeks.

July 17, 2018 - You might remember a jig used to **turn threads on a wood lathe**, which was presented in the May meeting. **Milo Scott** has agreed to present a live use of this marvel at the July meeting.



August 21, 2018 - We have tentatively set up a **Wood Turning Basics** presentation for the August meeting.

September 18, 2018 - Kevin Loyd has agreed to do a presentation on **Sharpening A Handsaw**. I'm sure many of us could benefit from this.

October 16, 2018 - Nothing is planned yet for this meeting. Suggestions? Contact me at programs@coloradowoodworkersguild.org

November 20, 2018 - This meeting is our annual election of new leadership.

December ??, 2018 - We have no member meeting in December. Instead, we have our annual Holiday Party. This is not yet scheduled but is always a fun gathering! Stay tuned for more info on this event.

Shows & Exhibits

Kezurou-Kai Denver 2018

August 4, 2018 all day, Red Rocks Community College Fine Woodworking main shop.

I'm excited to announce that this summer Kezurou-kai will be coming to Red Rocks Community College. For those who don't know what Kezurou-kai is, it is a competition amongst woodworkers to create the thinnest, longest hand plane shaving possible.

As the internet has grown and more people have turned to it to learn about woodworking it has helped, to also make this traditional Japanese event more popular in the US. Kezurou-kai in Japan has expanded to include demonstrations and lectures celebrating traditional Japanese woodworking tools and techniques.

For the competition, the shaving must be one continuous shaving that is the full width and length of the board being worked on. The shaving is measured at three random places on the shaving with the winners in Japan achieving a thickness of 9 microns (the thickness of a human hair measures between 30 -100 microns).

In past years, there have been officially sanctioned Kezurou-kai events in California, and this year we will be having Denver's inaugural mini-Kezurou-kai. This is the first year, so the event is just a single day, but there will be short classes, demonstrations, and the hand plane shaving contest.

The event is also free to attend. For those that are interested in participating prizes awarded. will be

Kevin Loyd, Shows & Exhibits Chair



President's Message

Hello everyone,

It is hard to believe that one half of this year is behind us. I would like to thank Tom Mancuso, our esteemed Vice President, for filling in for me at last month's meeting and for writing the Vice President's message.

We still have some volunteer positions that we need people to fill. The first one is **Webmaster**. Cary has been filling in doing double duty or maybe it is triple duty. He is one lean working machine! A big Thank you Cary for all your hard work. If you get a chance, tell him you appreciate all he does for us.

The next position is **Newsletter Publisher**. Al has taken this back on a temporary basis and does an outstanding job on monthly basis. I, especially on the Presidents Message, can use all the help I can get.

The **Community Service Committee** needs a new Chairperson and Assistant. Charlie Kuechemeister and Jeff Roth have agreed to do this one more Christmas Season. These guys have been doing this collectively for over 10 years plus. Wow, what a great job for all these years! I do believe both of their halos are getting bigger and brighter every year. There will be a sign-up sheet for the Christmas toy making workshops for this season at our July meeting.

I have informed Charlie that I would take over as the Chairperson for the Community Service Committee starting in January of 2019 if the new board accepts me at that position. If no one steps forward to do this, it means I will not seek or accept a nomination to be President for 2019. I cannot do both positions at the same time so if someone wishes to be President, now is the time to commit and throw your name in the hat.

I am polling all the current Board members to determine who will serve for next year. It is not too early to start the planning process. All input would be welcomed. Many of our Chairpersons have served diligently over the years and continue to do a great job of keeping the day to day operations moving forward in a positive direction. All these members deserve our gratitude and a sincere thank you from all of us. I believe our Chairpersons and their committee members are the back bone of our guild and are where the rubber meets the road when it comes to our continued success as a Guild. Thank you all so much for all you do. If you have a desire to serve or to learn more about any of the Committees, please feel free to contact any of the Chairpersons or any of the Board Members for addition information.

I have received a copy of an email from a teacher in need of a laser machine. Please share the following with anyone who may have an interest.

"Hello,

I'm a STEM (science, technology, engineering, and math) teacher at Denver North High School in the Highlands. In the past we have been lacking on the "E" in STEM courses. This year that will change and we're offering our first engineering course! We're looking to purchase a laser cutter. This will allow us to take our projects from the computer and into real life!

Denver North High School serves a student population that is 90% minority and 85% free and reduced lunch. We're hoping to offer more STEM courses to disrupt the dynamic in the STEM field in the future and increase the number of underrepresented groups in STEM focused careers. We are looking to purchase a laser cutter, so we can make our designs come to life using balsa wood. As a group that probably can remember the first time they worked with wood in school, I thought some of your members might be interested in donating to our class. If anyone is interested in donating to our project you can find the link to this project here: (ctrl + left click to follow link)

[Laser Cutter](#)

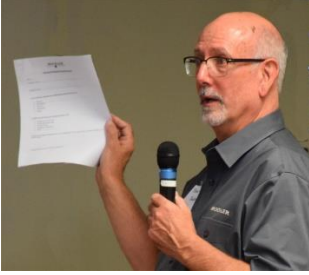
I'd be happy to hop on the phone to discuss our hopes and dreams for this program further or find ways for your group to collaborate with our students.

Thanks in advance,

Carly Buch Science - Senior Team Lead North High School"

Dale Bowlin President

Announcements



Rockler Asks for Evaluation and Input

Steve Krashmer of Rockler's Corporate Office talked to the Guild members about the success of the Denver Store and Manager, Dave Johnson's contribution. He also highlighted the importance of the Guild and other woodworking organizations to that success. In an effort to better serve woodworkers, Rocker has prepared a survey sheet that Steve asked the members to complete and leave with him to help Rockler moving forward.

Show and Tell

Kevin is the regular author of the Show & Tell articles. Unfortunately, he was not present at the June meeting. Once again, we only had three entries. I'd like to encourage y'all to bring entries for S&T. It really doesn't matter what you bring. It's all about sharing knowledge. My entries are simple, but I have fun showing my work.

The show and tell items at the June meeting included entries from three of our members.

First, yours truly **Cary Goltermann** showed off a simple bowl made from the root ball of an Aspen that had died in my front yard. I transplanted the tree many years ago from property I have in the mountains. It grew and eventually spread to become two "conjoined" trees. There is still another root ball in the ground that will likely become a bowl in the future.

When I pulled the root ball, I was taken with the grain that runs every which way. After some effort, it became a simple bowl. Voids in the bowl, were filled with acrylic resin, tinted with a minute amount of dye. The bowl was given several coats of Watco oil and allowed to dry thoroughly, then coated with wipe-on poly. It was not finished at the meeting and I'm still fussing with the finish.

The next entry is from **Rich Macrae**. Rich showed off a stunning "Keepsake" Box made of Mahogany with details in Ebony, Sapele and other veneers. Rich got his inspiration from a Fine Woodworking article. The box itself is joined via hand cut dovetails, has a drawer, is decorated with a compass rose, and uses beautiful Brusso hinges (solid brass). Finished with oil and then shellac.

Our final entry for the evening was a creative solution to a common shop problem. Rather than spend bunches of money on a RF controller for his shop dust collector, **Sam Thomas** made a switch that can be activated via an old-fashioned clothes line. Sam's switch controls the dust collector directly, and a clothes line is strung across his shop allowing him to run the switch from any of his machines. Pull the line in one direction to turn the switch on, and the other direction to turn it off. A simple solution to a common problem. In my shop there is a \$60 remote control switch and four \$20 remote control fobs. Sam's approach leaves him more cash for wood.

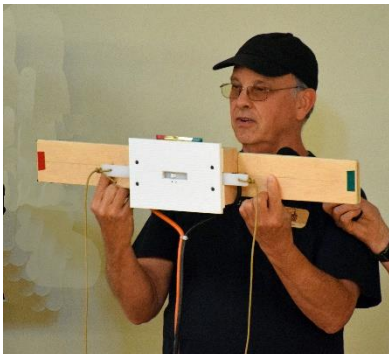
The **Show and Tell winner** for the evening was **Rich Macrae** with his keepsake box.

Cary Goltermann for Kevin Loyd Shows & Exhibits

Show and Tell Photo Gallery



**Rich Macrae
Keepsake Box**



**Sam Thomas
Dust Collector Switch**



**Cary Goltermann
Root ball bowl**

Presentation

Stanley 45 and 55 Planes

A funny thing happened on my way to this evening's meeting. As I approached the entrance to Rockler's, I observed from about 75 feet what looked for all the world like a Colorado state trooper, but one wearing a meticulously pressed kilt in the correct trooper uniform color. Assuming the "trooper" must be a Scotsman attending some sort of law enforcement convention and using his free time to shop for woodworking supplies, I continued into Rockler's, giving the matter no further thought. Only after entering the meeting area a bit later did I learn that the "trooper" was the evening's presenter, Guild member **Steve Shapland**, and not a trooper at all.

Steve's subject for our evening's education was to be the Stanley 45 and 55 planes. Produced from 1884 all the way to 1962 (Model 45) and from 1897 to 1963 (Model 55), these planes are often referred to as "The King of Combination Planes." The Stanley 45, although quite similar to the 55, performs only seven (beading, plowing, dadoing, rabbeting and filleting, tongue and groove, sash, slitting) of the 55's eight functions. The 55 adds extensive moulding plane capabilities. These planes are complex and cantankerous but can replace a trunkful of conventional moulding planes. They've been described as the Swiss Army knives of planes. While being very efficient for small quantities of moulding, they can't compete with routers or shapers for larger quantities. They're also quiet and offer the kind of aural and tactile satisfaction that only hand tools can.

Unless noted otherwise in the following, the information presented here applies equally to either plane.

Before getting into the specifics of each plane's functions, Steve suggested some reference works for those wishing to delve more deeply into the esoterica, set-up, and functioning of these planes. He specifically cited the Astragal Press for plane literature and Patrick Leech's *Blood & Gore* (from Superior Tools). I also discovered independently that the entire original instruction manual is still available for downloading on Stanley's site. Its drawings are a joy for this mechanical engineer to study. Moreover, without either one of these planes on hand or the drawings to study, much of what Steve covered would be baffling to the Stanley 45 or 55 tenderfoot.

Steve's presentation included set-up (not trivial), fences (specifically for tongue and groove beads and for center beads), the general characteristics of the blades (which are totally different in both support and adjustment from those used with the smoothing planes and block planes we're all familiar with), spurs and nickers, setting depth of cut, sharpening, and making your own cutters, including how to avoid some of the necessary blade stock removal by installing the blade at an angle rather than symmetrically. As a rough estimate, Steve had something more than 200 cutters with him.

Using a shooting board, Steve demonstrated beading and slitting. He emphasized the need for straight-grain wood to work on, shallow cuts, and frequent sharpening.

Throughout his presentation, Steve demonstrated obvious affection for these complex devices, making it apparent that he views the hard work of learning their foibles and needs well worth the effort.

Bob Kleinfeldt, Director at Large

[Click here to view May Presentation video](#)

Presentation Photo Gallery

Editor's note, Combination Planes are very complicated and difficult to set up and the following photos cannot begin to show how to work with them.

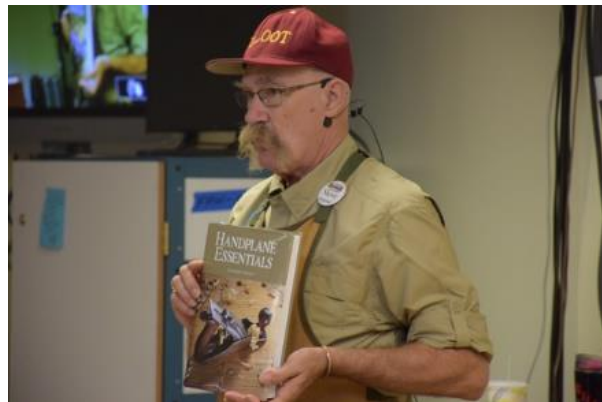
To get a better view of how to use Combination Planes go the website [view the Presentation video](#)



Array of Combination Planes
And
Attachments



Stanley 45 Combination Plane



Steve Shapland



Stanley 55 Combination Plane



Stanley 65 Combination Plane

Project Corner

This month we are introducing a new method of presenting what our members are working on at home.

Cary is working on restoring a hand plane and decided to document the steps he is going through. The following article is the first chapter in a series of articles documenting his project.

Hand Tools

I often go to the Denver Restore and poke around looking for deals.



A few days ago, I stumbled on a Stanley #3. It's actually a Stanley Handyman #3. I believe the Handyman series of planes was made, by Stanley for stores like Montgomery Ward. so, it's considered a less expensive version of the Stanley family.



Often these planes are made more cheaply with stamped metal parts for the depth adjustment. The depth adjustment on this plane is cast iron, so I'm guessing it's an early version of the handyman series. I don't really need another #3. When I turned it over and saw the price written on the bottom I couldn't pass it up. In the end, I'll likely give it away.

I thought it would be fun to share my attempts to turn this into a good working plane.

The single most important thing to address on this plane is the cap iron/chip breaker/blade. After that, make the sole flat. Niceties would include new paint on the body, a new tote (rear handle) and a new front knob.



The blade assembly is pretty rough. There is wood packed between the chip breaker and the blade and the edge of the blade has dents in it. The chip breaker serves two purposes. One, it supports the edge of the blade to help prevent flexing and chatter. Two, it guides the wood out of the throat of the plane. To accomplish these goals, the chip breaker must fit tightly against the back of the blade with no gaps.

This plane probably never worked well, and its owner took to forcing it through wood with no concern for hitting nails etc.

Let's take a look at the blade. Below is the blade back with the chip breaker removed. Notice all the wood shavings. These were jammed between the blade and the chip breaker. Even with a sharp edge this would prevent the plane from working well, or at all.



A sharp edge on the blade requires two things: a flat back and a flat bevel. The first step is to flatten the back. To do this, I coat the blade with a marker and then hone it. Here's the marked blade:



And here it is after a little honing. Looks to me like the marker is being removed more on the edges than in the middle. The back is somewhat concave.



Disaster! After a little more honing, it became obvious that the back is indeed concave. I thought I might save some effort by tapping the other side with a small hammer to remove the concaveness! I had no idea that it would be so brittle. One tap and it cracked right down the middle.

Oh well, I'm off to get another blade (which will cost more than the entire plane did). One of my brothers calls this "tuition". I have other words that I will not put in print.

Tune in next month to see the shiny, sharp new blade and a continuation of the (now more expensive) plane restoration.

Cary Goltermann, Member

About Wood



This month, we consider **Sweetgum (*Liquidambar styraciflua*)**, also known as **alligator tree, alligator wood, liquidambar, hazel pine, septum, star-leafed gum, satin walnut, redgum, gum, and bilsted**. Sweetgum is a tree native from Connecticut and New York, west to Ohio, Illinois, Missouri and Oklahoma south to Florida and Texas and is from the Hamamelidaceae, the witch-hazel family.



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.

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

Distribution: from Connecticut and New York, west to Ohio, Illinois, Missouri and Oklahoma south to Florida and Texas; thrives best in rich, moist bottom lands

Tree size: 65-100 ft (20-30 m) tall; 2-3 ft (0.6-1.0 m) trunk diameter

Average Dried Weight: 34 lbs/ft³ (545 kg/m³)

Specific Gravity: (Basic, 12% MC): .46, .55

Modulus of Rupture (MOR): 12,500 lb_f/in² (86.2 MPa)

Modulus of Elasticity (MOE): 1,640,000 lb_f/in² (11.31 GPa)

Crush Strength: 6,320 lb_f/in² (43.6 MPa)

Janka Hardness: 850 lb_f (3,780 N)

Shrinkage: Radial, 5.3%; Tangential, 10.2%; Volumetric, 15.8%; T/R Ratio, 1.9

Appearance: heartwood gray to reddish brown; sapwood is whitish to light pink or tan

Grain/Texture: grain is interlocked; fine and uniform texture; good natural luster

Stability: sensitive to changes in atmospheric conditions; tends to move considerably in use; more stable with quartersawn; after seasoning it is generally dimensionally stable

Decay Resistance: heartwood is moderately resistant to decay; sapwood is perishable and susceptible to insect attack

Workability: easy to work; nails, screws and glues well; dries rapidly with a strong tendency to warp and twist; does not respond well to sanding

Odor: no characteristic odor or taste

Toxicity: reported as an irritant

Potency: low

Toxicity Source: wood dust and contact with wood

Reaction: skin irritation

Sustainability: not threatened; available; most comes out of the lower Mississippi valley; often marketed under some of the alternate names

Uses: furniture components, veneer, plywood, cabinets, millwork, turnings, interior trim, cooperage, boxes/crates, stools, tables, shipbuilding, and rail ties,

Typical Cost: moderate to low pricing; finely figured heartwood can be expensive

Comments: do not confuse with various Australian species in the *Eucalyptus* genus; heartwood often sold under name of redgum while sapwood is sold under name of septum

Sources: Woodworkers Source; The Wood Database; American Hardwoods Information Center; Flynn, James H. and Charles D. Holder, Editors. *A Guide to Useful Woods of the World, Second Edition*. Forest Products Society, Madison, Wisconsin, 2001.

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

Lindy Baer Contributing Editor

Sponsor's Corner

Profile: Woodcraft of Denver

Woodcraft of Denver has been a sponsor of Colorado Woodworkers Guild for several years. Woodcraft, established in 1928, is located at the intersection of Peoria street and Arapahoe Road in Centennial. This store carries a complete selection of stationary and portable power tools, hand tools, carving tools, turning tools, and accessories for all woodworking needs. The tool display area is substantial, and an in-store classroom area provides a venue for classes in many phases of woodworking activities, generally on a monthly schedule. The classes have covered everything from guitar building to the essentials of router and lathe work, and even the proper set up and use of the band saw.

The store features a sale of select items every month that are featured in Woodcraft's monthly sales flyer. One can stay abreast of store activities through visiting the Woodcraft website (Woodcraft.com) or by signing up at the website for email announcements. Additionally, when purchasing items at the store, one can sign up to receive the monthly sales flyer in the mail. This monthly mailer includes merchandise that is on sale, featured new products, as well as a list of classes and free demonstrations being offered that specified period.

The store is staffed by a knowledgeable staff, all of whom enjoy woodworking and are helpful in making sure that your purchase is what you need for a particular project. One nice feature is the "rain check" system whereby one can purchase an item on sale, and when not available on the shelf, can be ordered for you at the sale price and typically delivered to the store within a week. The store will notify the purchaser when the item is delivered to the store. Eric Letzler, the storeowner, is also a woodworker and has exhibited some of his handiwork in the store from time to time. Other staff members and customers also have some of their pieces on display.

Remember, when making a purchase at Woodcraft, as well as any of our other sponsors, you will receive a 10% discount on the purchase total for items not on sale when you present your Guild membership card.

Website: www.stores.woodcraft.com/denver

Phone: (303) 290-0007

Address: 6770 S Peoria St, Centennial, CO 80112

Guild Liaison for Woodcraft is Michael Cunningham

liaison-woodcraftdenver@coloradowoodworkersguild.org

Frank Paxton Lumber Wood of the Month

The featured Wood of the Month for July from Frank Paxton Lumber is four-quarter (4Q), S3S **Poplar**, random widths, 8 to 9 feet in lengths.

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

CWG Sponsors

The Colorado Woodworkers Guild is fortunate to have many companies as sponsors. Our 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

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

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

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 showroom and warehouse) and 8055 County Road 570 Gardner, CO 81040 (this is their southern Colorado wood yard, kiln drying facility, woodshop, and another showroom) Phone: 800-746-2413

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.signaturesmedallions.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>

June 2018

2018 Board Members

Dale Bowlin - President

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Cary Goltermann - Programs Chair

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Jack Brock - Publicity and PR Chair

publicity-pr@coloradowoodworkersguild.org

Kevin Loyd - Shows and Exhibits Chair

shows@coloradowoodworkersguild.org

Wilbur Goltermann - Webmaster

webmaster@coloradowoodworkersguild.org

Membership

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

Many of you prefer to pay by check either at a meeting or through the mail.

To support this a new web page has been added. If you go to <http://ColoradoWoodworkersGuild.org> and look under **About** you will see **Pay for Membership by Check**. Click on this and you'll be taken to a page where you can fill in your info and print the page. If you log in first, most of the info will be filled in for you. When you click Print, the info will be stored online (so I don't have to enter it!). Mail the page to CWG with a check or take it to a meeting with a check.

Colorado Woodworkers Guild

P.O. Box 100996

Denver, CO 80250

along with a check for \$30

Here is the membership status as of this writing:

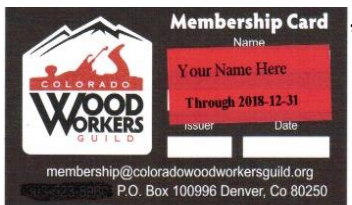
77 Members paid through the end of 2017 (inactive as of April 1st)

141 Members paid through the end of 2018

Total 141 **active** memberships. What is an active membership? A membership is valid through the end of the calendar year. If you have not renewed for 2018 your membership is still considered active until April 1st, 2018. I have begun to disable memberships who have not renewed for 2018. If your membership becomes disabled and you have renewed for 2018 please let me know.

Now is a great time to renew your membership!

The 2018 member cards look like this (member name/expiration in Black text on a Red background). If your member card does not look like this, it has expired.



If you believe that you have renewed for 2018 and do not have a current membership card, please let me know. Send an email to programs@coloradowoodworkersguild.org and I'll address the problem.

How can you renew? For me the best way you can renew is online. When you fill in one of our on-line forms

- I do not have to decipher your handwriting (no offense).
- The data is machine readable, meaning I do not have to enter it manually.

You can renew online, print out the form and mail it with a check or bring the form/check to a meeting.

To renew on-line and mail the form in with a check, go to

<http://coloradowoodworkersguild.org/index.php/pay-by-check-member-application>

If you log in first, your name, address, etc. will be automatically filled in. If you don't know how to log in OR are unable to log in, drop me an email at programs@coloradowoodworkersguild.org and I'll help you out!

Cary Goltermann - Assistant to the Membership Chair