

# WOOD WORDS

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Kansas City Woodworkers' Guild

PUBLISHED BY THE KANSAS CITY WOODWORKERS GUILD \* 3189 MERCIER ST \* KANSAS CITY \* MO \* 64111

## ANNUAL MEMBERSHIP DUES CHANGES

Renewals for 2019 memberships will start at the November General Meeting. The website should be up and running at that time to accept your renewals (remember the \$5 discount for early renewals). Also, any new members joining at the November meeting or after will be members for the remainder of 2018 and all of 2019.

- We will maintain the 20% discount on Guild classes and merchandise for WW+ and Benefactor members.
- We will continue the \$5.00 discount for renewals between December 1, 2018 and January 31, 2019
- We will continue to give the \$5.00 discount for joining both the KC Woodworkers Guild and the KC Woodturners at the same time.

### Changes to Membership Dues for 2019

There will be an increase in dues for 2019 for those members who use the shop. The new dues structure is:

Membership Level	\$/yr
Benefactor	\$150
Woodworker Plus	\$125
Sawdust Maker	\$95
Regular	\$50
Senior	\$35
Student	\$25

This represents a \$25.00 annual increase for Benefactor and Woodworker Plus, a \$20.00 annual increase for Sawdust Maker, and no change for Regular, Senior, and Student.

There is one more significant change – **the renewal period is being shortened this year. To maintain your membership and Green card status you must renew by February 28, 2019. After February 28th, you will be considered a new member and will need to re-qualify for your Green Badge.**

Even with the dues increase – membership in the Guild is still one of the best deals around. Memberships also make an excellent holiday gift. If you want to arrange for a gift membership – see Wayne Peterson or Joseph Greisen.

**Wayne Peterson**  
Membership Director



## PRESIDENT'S MESSAGE

I've been listening to woodworking podcasts lately. There several out there, some are quite good and others...not so much.

Here are some I enjoy!

### **Shop Talk Live - Fine Woodworking**

Fine Woodworking magazine editors and contributors answer your questions and share woodworking tips and techniques. The podcast episode notes include links to articles and videos from the magazine's website. If you're an online member, you can read the complete articles and view the videos. This is my favorite podcast.

### **Wood Talk**

A woodworking show for modern woodworkers and makers. Join Marc Spagnuolo, Shannon Rogers, and Matt Cremona for a light-hearted look at the latest news, tips, and tricks from the world of woodworking.

### **Modern Woodworkers Association Podcast**

The Modern Woodworkers

Association is a place for the online woodworking community to reinforce online connections and create personal ones in local gatherings in many regions across the country. It is a place for woodworkers of all skill levels from professional to hobbyist to be able to share knowledge and learn from one another.

### **Woodshop 101 Podcast**

The Woodshop 101 Podcast is geared towards the weekend woodworker providing tips, tricks, and laughs. The show is hosted by Jeremy Crawford, Drew Short, and Sam Wooddell. Collectively the three personalities work well together bringing different perspectives, levels of experience combined with funny stories to audiences each week. Every week they spotlight a different guest host, make product recommendations, talk about current projects, and answer audience questions. The show is informative.

### **Woodworking Hand Tools & Techniques**

Join host, Bob Rozaieski, as he answers your questions and

brings you tips and tricks to help you get the most out of your time in the shop.

### **This Old Workshop**

This Old Workshop has been a woodworking resource online since 1995. The editors have come together to create a podcast on a variety of woodworking subjects, projects, techniques, and resources.

### **Workshop Waffle**

An interesting podcast from Trevor Green, detailing his exploration of woodworking from his garage workshop. In this podcast, Trevor features woodworkers of the past, interesting woodworking videos, magazine reviews, and interviews with well-known woodworkers.

Many of these podcasts can be found on iTunes, PlayerFM, or through their website.



Sincerely,  
**Craig Arnold**  
President  
Kansas City  
Woodworkers'  
Guild

***Announcement: The Hand Tool SIG will be on holidays until January 2019. Keep an eye out for Lie-Nielsen in January and see everyone then!***

## EVENTS CORNER

## SHAWNEE CHRISTKINDMARKT &amp; HOLIDAY MEMBERSHIP DINNER



The Holiday Dinner is just around the corner! I hope you are working up an appetite as you put the final touches on your featured project! Rumor has it; the best voted masterpiece will win a gift card. Don't forget to bring your homemade dessert! (This is probably the only time you'll be given an exception to put the finishing coat in the shop!)

This year will be served carved beef, chicken, salad, potatoes and a vegetable. A vegan option is available as well, by request. The meal cost this year is \$15 per plate with a sign up coming soon!

Also! Be thinking about your raffle items! Your wood creations will be raffled off, with funds benefiting the Guild!

See you in the shop!

The next event coming up is the City of Shawnee's Christkindlmarkt on December 1. We have been asked to come out and provide toy trucks to the community. Last year, families were lined up around the parking lot. Keep your eye out for your chance to participate! From building truck parts to helping at the event, too! A sign-up will be coming out soon.

by Alex Scott  
Director of  
Events



**WATCH FOR THE GUILD'S EMAIL IN THE NEAR FUTURE  
INDICATING THAT THESE EVENTS ARE AVAILABLE FOR SIGN UP**

## CNC UPDATE

The CNC upgrade is progressing at a slower pace than anticipated. The volunteer member doing the upgrade had to have surgery and the recovery has been more difficult than anticipated. We hope the speed of the recovery improves and that it is complete. He is working on the upgrade when possible.

The date for the completion of the upgrade is difficult to forecast. When a firm date becomes available it will be communicated to the membership. A November date is doubtful.

There will be no CNC SIG meeting in November.

Gary Mielke

# MEMBER PROJECTS

*Steve Miller*

*Project: Cardinal Bird Carving*

*Materials: Tupelo*

*Finish Used: Oil Paint*



**Photo Courtesy  
Neal Ray Shoger**



*Boyko Varney*

*Project: Tea Box*

*Materials: Wenge and Spalted Maple*

*Finish Used: Shellac*



## CALVIN HOBBS TO SPEAK AT NEXT GUILD MEMBERSHIP MEETING

We have a lot of really talented craftsmen and crafts women in the Guild and one of those with national acclaim is Calvin Hobbs - fine furniture maker. Cal will be presenting our November program on one aspect of his many talents. I am especially appreciative of Cal volunteering his time because the night before Thanksgiving is a difficult night to attract several other potential program givers, some of which will be presenting next year. I have sat up really close with quite a few other Guild members watching Cal carve a walnut shell or fan in a two-hour Saturday morning skills workshop. Everyone was fascinated with his talent and his ability to relate well to people with, at least in my case, far less talent. I am so looking forward to Wednesday night. Here's a reminder about our December party meeting. Our raffle that night consists of treasures made by our members. Just in case you may not be there in December, but still would like to donate a bowl, box, chest, or whatever, bring it in soon so that we can begin to assemble things for the December raffle.



**Matthew Nowak**  
Director of  
Programs

## TREASURER'S REPORT

Please look at the Monthly Financial Statements in the Members Only area of the Guild website. Starting in July 2018 additional detail on monthly disbursements have been added to the report. Let me know if you find the disbursement detail useful.



**Gary Mielke**  
Treasurer

We are rapidly closing out 2018 and planning for 2019. The budget for 2019 is being finalized. This month is your last opportunity to contribute and make recommendations on budget items for next year. The budget will be finalized and hopefully approved in December.

Membership renewal for 2019 will start November 21st. Some membership fees are increasing for 2019. Please check the new rates prior to renewing. From the treasure perspective the best way to renew is by check. A check has no fees and the canceled check provides you with a good receipt. You can mail the check or bring it by the Guild. The second choice is PayPal. PayPal charges a 2% to 2.5% fee but it is convenient and provides easy payment verification. Cash is always good, but you need to bring it to the Guild, please do not mail cash. If you pay cash and complete a membership renewal form get a copy of the form for your records. Paying by credit card at the Guild can be a challenge. Not all shop foremen have access to the credit card reader and the card reader is slow or can have technical difficulty.

If you plan to renew at the monthly meeting please come early and if possible, bring a check or cash. Don't forget there is a \$5 discount if you renew before the end of January.

The membership dues for Sawdust Maker will be \$95 for the year. The Woodworker Plus will be \$125 and the Benefactor membership will be \$150. The 20% discount is not changing. The other memberships categories are not changing. The dues increase is needed to insure adequate operating revenue. Fund raising project revenue became less reliable this year and we don't anticipate it to improve in 2019.

If you have questions, please contact me.  
Gary Mielke  
Treasurer

## MEMBER PROJECTS

*Larry Welling*

*Project: Box*



*Meghan McCauley*

*Project: Wooden Bolts and Nuts*

*Materials: Pine*

*Finish Used: Tung Oil*

**Photo Courtesy  
Neal Ray Shoger**

## THE NOVEMBER 2018 INTERESTING VIDEOS....

**Y**ouTube and other video sites are great resources for woodworkers, here are a few presented in no particular order. Each of these videos caught my or other's eye for various particular reasons, be it the education, the project, or the film itself. If you run across interesting videos, please send a link to me at [Library@kcwoodworkersguild.org](mailto:Library@kcwoodworkersguild.org)

Did you know that the Guild has a YouTube channel? The videos below will be on a playlist for ease of watching. Take a look! <https://www.youtube.com/user/kcwoodworkers/>

I'm not sure what happened with last month's article, I highly suspect that email decided to eat the links. Hopefully this month they'll be back to their short bunch of random numbers and letters! Enjoy!

Secrets of the Castle: Why Build A Castle? | Episode 1 (60 Minutes)

<https://www.youtube.com/watch?v=ydoRAbpWfCU>

Timeline is an interesting channel that licenses their content from a bunch of British television channels. In this documentary, a group of experimental archaeologists are showing off the work of Castle Guedelon, a castle that started construction in 1997 using traditional techniques, which involves some medieval woodworking. See timestamps at about 13:00, 17:00, as well as 46:00 for the woodworking aspects of the show. But I recommend just watching it through (and the other 4 episodes) if you like documentaries and things like Colonial Williamsburg.

The Highland Woodworker, Episode 38 (40 Minutes)

<https://www.youtube.com/watch?v=tuBFBOre5zM>

Highland Woodworker puts out some finely crafted videos, I recommend all of them and Ron Haw recommends episode 3. They put out a new one recently featuring Chris Schwarz from Lost Art Press as well as some shop tricks and tips.

Culver Props Shop Interview (35 Minutes)

<https://www.youtube.com/watch?v=HHXlhJIPqKg>

Ever wonder how aircraft props are made? Apparently there's a prop making business in Rolla, MO. And she has a circular saw pattern lathe. Well, it might be gear and template driven. The camera focus during interviews could use some work, however.

Woodsmith Shop Episode #1208 - Flag Case (25 Minutes)

<https://www.youtube.com/watch?v=PBctb558sMI>

This video popped up at the last minute before the newsletter deadline and thought it apropos for this month. The Woodsmith team always does a good job in educational material. A word of note, I highly advise not cutting brass on the shop table saws like they recommend - as that will set off the sawstop mechanisms.



**By Andrew Carr**  
*Librarian*

## NOTES FROM SPONSORSHIP

<https://smile.amazon.com/>

In September the Guild got \$8 of free money from the use of this web site by folks buying stuff at Amazon. In October, the number was \$34. A 300% increase in one month. We all can make a personal contribution to the Guild. Commit to using this web site and to repeatedly and frequently encourage others to do the same. The holiday season is approaching. Lots of our family members and friends are going to be buying lots of stuff at Amazon. If we “condition” ourselves (and our computers) and our family and friends (and their computers) to go to this website when we start entering amaz..., this will evolve into a sustainable revenue stream for the Guild. All it will cost is the small effort needed to type an extra “smile.” each time we want to get to Amazon. Let’s set a goal of \$100 in donations from Amazon Smile for the month of December – that gives us two months to achieve another 200% increase.

Here is another way to think about this - an average \$100 / month donation in 2019 translates to \$1,200 / year. That’s equivalent to a new, Walnut level sponsor for the Guild – for virtually no effort!

**Project donations for the Christmas Dinner raffle** – Make that pretty box. Dust off that marquetry tray. Finish up that trivet. Fix that broken knife handle. Picture frames are always in demand. Bring them and other project donations to the Christmas dinner. We need raffle items; LOTS of raffle items.

Each year, we reserve the December “meeting” – really the Holiday Dinner - raffle for member-made items. Each year the December raffle is our most successful. We have a high target to beat this year. One of our raffles this summer included a great pattern maker’s vice. That raffle earned the Guild just under \$500. We need a LOT of “prizes” to beat that income in December. Do your part. Think about donations that will make great gifts. Bring them in – as long as they were made by a member of the Guild. And, be sure to talk to the winner of your donation about how you made it. Knowing the maker and the story behind each win will make each prize that much more special.

**Denny Walton**

Director of Sponsorship



## MEMBER PROJECTS

**Gordon Fogal**

**Project Name:**  
**Various**  
**Artwork**

**Photos Courtesy - Neal Ray Shoger**



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## FROM THE SHOP

The holidays are coming, you have lots of great gift ideas you can make yourself. But there is so little time! I'm going to have to kick it into high gear to get these done! Go! Go! Go! Fast! Fast! Fast! Deadlines and drytimes and delays Oh My!

STOP! take a breath, slow down. Working in a panic rushing to get done is likely to end up with too

outcomes. First you will have reduced beautiful lumber into piles of mulch with some leftovers for the woodstove, Second you have a better than average chance of having some holiday stories to tell about why you are bandaged up and how you were treated at the hospital.

This is your hobby, take your time and enjoy your work. Haste makes Waste is one of the most appropriate phrases pertaining to woodworking. Enjoy the holidays and your time in the shop. Remain a proud member of the 2 eyed 10 fingers club with your only blood loss a donation to the Community Blood Drive.

### ***Windsor Chair Experiment***

Michael Dunbar is quite possibly the man responsible for the resurgence of the Windsor chair. Author of "Make a Windsor Chair" and formerly operating the Windsor Chair Institute has closed the institute where he taught people how to make Windsor Chairs for the last 20 years.

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

Mike is trying an experiment and posting on YouTube a series of videos on making a Sackback Windsor chair.

<https://www.youtube.com/channel/UCvZ36VGhBIHqkETSnajNhMw>

I had interest in taking one of his classes but never lined up the whole trip to the Hamptons. I am going to give it a try and follow along as Mike releases a new video each Tuesday (there are currently 5) and build a chair. I am inviting you to join the effort if you want to. This is not a class but more of a support group. We will have get togethers during each of my Sunday Open Shops where we can share our progress, successes and failures and maybe end up with a chair.

To recap, Not a Class, No Fee, Green card and Shop access membership required. You provide all your materials, you work at your pace and under your supervision. Visit his YouTube channel, subscribe and give him a thumbs up. These are well made videos and it costs you nothing. That's a good deal I think.

**By Chuck Saunders**  
*Director of Assets*



## MEMBER PROJECTS

*Arnol Baker*

*Project: Safe Harbor BMG*

*Materials: Walnut, Brass, Aluminum*

*Finish Used: Linseed Oil, Spar Varnish*

*Points of Interest: Inlay, Base Plates*



*Calvin Hobbs*

*Project: Spice Chest*

*Materials: Walnut, Poplar and Holly*

*Finish Used: Shellac and Wax*

*Points of Interest: Inlay, Base Plates*



**Photos Courtesy  
Neal Ray Shoger**

# Bloomers



# Hardwoods

## Offered Services

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## PLEASE WELCOME THESE 12 NEW MEMBERS WHO JOINED THE GUILD IN OCTOBER 2018

<u>FIRST NAME</u>	<u>LAST NAME</u>	<u>HOMETOWN</u>	<u>STATE</u>	<u>MEMBERSHIP</u>	<u>JOINED</u>
Spencer	Benlon	Kansas City	MO	WW+	10/11/2018
Aaron	Burns	Gardner	KS	Sawdust	10/11/2018
Mathieu	Delrieu	Kansas City	MO	WW+	10/20/2018
Stuart	Glover	Lenexa	KS	WW+	10/16/2018
Douglas	Markussen	Raytown	MO	WW+	10/08/2018
Brian	Maupin	Kansas City	MO	WW+	10/11/2018
Bill	McDonnell	Westwood	KS	WW+	10/06/2018
Beatriz	Pettus	Orrick	MO	WW+	10/19/2018
Zachary	Raithel	Prairie Village	KS	Sawdust	10/02/2018
Ben	Schlicht	Kansas City	MO	WW+	10/18/2018
Dawn	Searcy	Gladstone	MO	Sawdust	10/16/2018
Ryan	Watts	Kansas City	MO	Sawdust	10/08/2018

**Current Membership: 871**

## SAFETY ON THE MOVE

No situation or organization is worthwhile if it's stagnant. KCWG, for instance, is ever changing. From the Safety leadership perspective, I assumed the position of Director of Safety and Safety Committee Chairperson in November 2016, after Chuck Slagle had paved that road for the ten years prior to that. This responsibility will be that of **Mike Jones**, starting in January, 2019. Mike has an extensive history of leadership with the Guild, included terms as President, Vice President, Director of Training and Director of Membership. His knowledge, leadership credentials and enthusiasm for every aspect of the Guild will make for a very effective Safety function.



Working with Mike in this capacity will be Laura Provance in the newly-established position of Safety Committee Vice Chairperson. She will assume the docu-



mentation duties, including Safety Committee agenda and meeting minutes generation, as well as filling in for Mike as Safety Committee Chairperson and Leadership Committee Safety representative at meetings that Mike is unable to attend. Laura has already proven to be extremely capable and enthusiastic in her very first year with the Guild. In addition to Safety Committee membership, she has taught the Shaker Step Stool class with Nicole Fox and is a regular face among the instructors in our Rough to Ready program.

Volunteerism is what makes the Guild possible. No volunteers? No Guild. Everyone's support is needed. The current 15 Members of the Safety Committee have been invaluable to me in our quest to continually improve the safety of the Guild Shop through safety rule, policy and communication enhancements. This improvement will continue in all Guild functions and areas, including Safety, but only with your help. Get involved! Make time to share your professional skills, which in almost every case are directly applicable to Guild needs! Step up to those needs!

With my wife retiring next month, we plan to tour the Country. As such, my early-2019 time at the Guild may be scant. That assumes that I finish my current

woodworking project before then.

It has been my honor to serve in the Director of Safety position for these two years, and I look forward to my continuing membership in the Kansas City Woodworkers' Guild, the finest such organization in the US!

On just a slightly different topic, it has been decided that starting this month we will post the safety rules on at least one machine in the newsletter. This is to give you the opportunity to review the rules and safe operation of our equipment with the ultimate goal of coming as close as possible to totally eliminating accidents in our shop. Please, don't ever hesitate to approach the foreman on duty if you ever have a question about the operation of a machine. It's far easier and less time consuming than making a trip to the emergency room because you neglected to ask for help or find out what that knob does that you've never noticed before. Without exception, your safety and the safety of those around you is the number one priority at the guild.

Thanks for your Focus on Safety!

**John Sloss**  
Director of Safety



## NOVEMBER 2018 SAFETY REVIEW - THE BAND SAW

# Band Saw

The Band Saw has a thin blade in the form of a continuous loop. It is useful for cutting curves, resawing, and cutting thick material.

### Safety Rules

1. Before turning on the band saw, make sure that the blade tension lever is in the "On" position and that the blade tracks in the center of the wheel treads when you rotate the wheels by hand.
2. The teeth of the band saw blade should point down toward the table.
3. The blade should be 1/32" from the roller bearing behind the blade.
4. Make sure that the upper and lower wheel guard doors are closed when the saw is running.
5. Keep the blade guard only 1/4" above your stock, or as low as possible if you need to clear the fence.
6. Keep bystanders away from the right-hand area of the saw. Broken blades have a tendency to fly out to the right.
7. Don't cut stock that is not flat on the bottom without holding it in a jig. Use a "V" block when cutting cylindrical stock.
8. Keep your fingers and hands away from the path of the blade. Never use your thumbs to push your workpiece toward the blade.
9. Turn the machine off and wait for the blade to stop before backing out of a cut.
10. When cutting small or short stock, use push sticks, feather boards, or other appropriate safety devices to control the workpiece.
11. Do not force a cut. Allow the blade to dictate the rate of cutting.
12. If the blade breaks, shut the machine off and stand clear until everything stops.
13. When cutting with the table at an angle, clamp a block to the table to keep your stock from slipping off.
14. Never stick an object into the blade to stop the machine. Let it stop on its own or use the brake, if the saw has one.





## MEMBER PROJECTS

*Jim Ramsey*

*Project Name: Bandsaw Box*

*Materials: Spalted Cottonwood*

*Finish Used: Shellac*

**Photos Courtesy  
Neal Ray Shoger**



# Rough to Ready

## A Basic Hands-on Introduction to Woodworking

This class instructs you in the basic techniques and provides the hands-on experience of using table saws, router table, jointer, planer, bandsaw, wide belt sander, miter saw, some good ol' sandpaper as well as various squares and measuring tools. It serves as the only alternative method to satisfy the KCWG'S safety requirements and earn the required Safety Certification necessary to work in the Guild's shops.

This is the perfect one-on-one or one-on-two class for beginners, novices, even as a refresher for experienced woodworkers to build a 9in x 5in x 3 1/2in lidded box with an experienced instructor. Beginning with rough cut lumber your class will progress step by step to create a lidded box, glued up and ready to take home and apply finish after only minor sanding.

All that's required to take the Rough to Ready class is a paid up Sawdust Maker, Woodworker Plus or Benefactor Membership, a completed and passed Online Safety Test (90% passing grade) and your paid tuition for the class. Sign up is simple, just follow this link: <https://www.signupgenius.com/go/20f0b4ca4ac2ea4fb6-rough>.



We currently have class openings on the following dates, first-come-first-served: November 2, 4, 9, 16 and 19. Classes fill up fast and you don't want to miss out.



## MEMBER PROJECTS

*James Childress*

*Project Name: Poster Frame*

*Materials: Cherry*

*Finish Used: Boiled Linseed Oil*



**Photos Courtesy  
Neal Ray Shoger**



*Ken Grainger*  
*Project Name: Dulcimer*

*Materials: Walnut and Redwood*  
*Finish Used: Lacquer*

# Kansas City Woodworkers Guild November 2018 Open Shop Schedule

*Supersedes all previous  
Open Shop Schedules  
for this time period*

day	November	Date	9am	10	11	12	1	2	3	4	5	6	7	8	9pm
Thursday	November	1	Gary Mielke										Basic Woodworking		
Friday	November	2											Andrew Carr		
Saturday	November	3	Mike Jones						Basic Skills Class		George Rexroad				
Sunday	November	4		Chuck Saunders					Chris McCauley Powertool SIG						
Monday	November	5						Ron Haw					Gary Strohm		
Tuesday	November	6	Gary Creek			Craig Arnold								Kara Paris	
Wednesday	November	7	Roger Bartlett				Roland Mohler		Scott Engelmann 3:30				LC Meeting		
Thursday	November	8	Gary Mielke						Rick Chandler				Basic Woodworking		
Friday	November	9						Rick Chandler					Bill Lintner		
Saturday	November	10	Dave Kraatz				Norm Carpenter								
Sunday	November	11		Rob Young						Mike McCauley					
Monday	November	12	John Johnson				Ron Haw						Woodturners General Meeting		
Tuesday	November	13	Matt Nowak			Ron Lomax			Craig Arnold				Rick Chandler		
Wednesday	November	14	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30				Scrollsaw SIG		
Thursday	November	15	Gary Mielke						Rick Chandler				Basic Woodworking		
Friday	November	16						Mike McCauley					Marselle Bredemeyer		
Saturday	November	17	Dave Kraatz							George Rexroad					
Sunday	November	18		Chuck Saunders						Chris McCauley Safety Orientation					
Monday	November	19	John Johnson					Ron Haw					Gary Strohm		
Tuesday	November	20	Gary Creek			Craig Arnold									
Wednesday	November	21	Roger Bartlett										General Meeting		
Thursday	November	22	Thanksgiving No Open Shop				Thanksgiving No Open Shop			Thanksgiving No Open Shop			Thanksgiving No Open Shop		
Friday	November	23						Rick Chandler					Bill Lintner		
Saturday	November	24	Dave Kraatz												
Sunday	November	25		Rob Young					Handtool SIG		Wayne Peterson				
Monday	November	26						Ron Haw					Rick Chandler		
Tuesday	November	27	Matt Nowak			Ron Lomax			Craig Arnold				Rick Chandler		
Wednesday	November	28	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30				Kevin Thomas CNC SIG		
Thursday	November	29	Gary Mielke						Rick Chandler				Basic Woodworking		
Friday	November	30						Mike McCauley					Andrew Carr		

# TENTATIVE DECEMBER 2018 OPEN SHOP SCHEDULE

day	December Date	9am	10	11	12	1	2	3	4	5	6	7	8	9pm
Saturday	December 1	Mike Jones						Basic Skills Class		George Rexroad				
Sunday	December 2		Chuck Saunders					Chris McCauley Powertool SIG						
Monday	December 3						Ron Haw				Gary Strohm			
Tuesday	December 4	Gary Creek			Craig Arnold							Kara Paris		
Wednesday	December 5	Roger Bartlett				Roland Mohler		Scott Engelmann 3:30			LC Meeting			
Thursday	December 6	Gary Mielke									One Night Projects and Open Shop			
Friday	December 7										Andrew Carr		6 Board Chest Class	
Saturday	December 8	Dave Kraatz				Norm Carpenter								
Sunday	December 9		Rob Young						Mark Waugh					
Monday	December 10	John Johnson				Ron Haw					Woodturners General Meeting			
Tuesday	December 11	Matt Nowak			Ron Lomax			Craig Arnold			Rick Chandler		Safety Comm Mtg	
Wednesday	December 12	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30			Scrollsaw SIG			
Thursday	December 13	Gary Mielke									One Night Projects and Open Shop			
Friday	December 14										Bill Lintner			
Saturday	December 15	Dave Kraatz							George Rexroad					
Sunday	December 16		Chuck Saunders						Chris McCauley					
Monday	December 17						Ron Haw				Gary Strohm			
Tuesday	December 18	Gary Creek			Craig Arnold									
Wednesday	December 19	Roger Bartlett									General Meeting Christmas Dinner make your Reservation			
Thursday	December 20	Gary Mielke									One Night Projects and Open Shop			
Friday	December 21						Mike McCauley				Marselle Bredemeyer			
Saturday	December 22	Dave Kraatz												
Sunday	December 23		Rob Young				Handtool SIG		Wayne Peterson					
Monday	December 24						Ron Haw							
Tuesday	December 25	Christmas Day No Open Shop			Christmas Day No Open Shop				Christmas Day No Open Shop					
Wednesday	December 26	Bob Caldwell			Roland Mohler			Scott Engelmann 3:30			Kevin Thomas		CNC SIG	
Thursday	December 27	Gary Mielke									One Night Projects and Open Shop			
Friday	December 28										Bill Lintner			
Saturday	December 29	Mike Jones												
Sunday	December 30		Chuck Saunders						Chris McCauley					
Monday	December 31						Ron Haw							



# Choose the Right Glue

**W**ith so many adhesives available, selecting the best one for your wood-working project can be puzzling. From polyvinyl acetate (PVA, aka yellow wood glue) to polyurethane to epoxy to hide glue, all of these choices bond wood to wood (and cloth, paper, and leather). But to find the *best* choice for your project, simply review the charts *below*, and then refer to the descriptions on the *next page* to make your decision.

If your project will not be exposed to moisture, use the top chart. For those that will get wet, use the bottom chart,

even if the project will be indoors. Then just cross-reference needed assembly time with the other listed criteria.

**Quick Tip!** A bottle of weatherproof or waterproof PVA may be all you need for most indoor and outdoor projects.

INDOOR ADHESIVES					
ASSEMBLY TIME →		LESS THAN 5 MIN	10–15 MIN	20–25 MIN	60 MIN
BOND NEEDED	Permanent bond	Cyanoacrylate, No-drip PVA, <b>Polyurethane hotmelt, 5-min epoxy</b>	Standard PVA, Weatherproof PVA, Dark weatherproof PVA, <b>Polyurethane</b>	Extended-time PVA, Weatherproof extended-time PVA, Waterproof PVA	<b>Structural epoxy</b>
	Semi-permanent bond*	Traditional hide glue	n/a	Premixed hide glue	n/a

\*Applying steam dissolves the glue for disassembly if needed.

MOISTURE-RESISTANT and MOISTURE-PROOF ADHESIVES					
ASSEMBLY TIME →		LESS THAN 5 MIN	10–15 MIN	20–25 MIN	60 MIN
MOISTURE EXPOSURE	Occasional exposure	<b>Polyurethane hotmelt, 5-min epoxy</b>	Weatherproof PVA, Dark weatherproof PVA, <b>Polyurethane</b>	Weatherproof extended-time PVA, Waterproof PVA	<b>Structural epoxy</b>
	Frequent exposure	<b>Polyurethane hotmelt, 5-min epoxy</b>	<b>Polyurethane</b>	Waterproof PVA	<b>Structural epoxy</b>
	Submerged exposure	n/a	n/a	n/a	<b>Structural epoxy</b>

**Bold** indicates adhesive can be used on damp wood.

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### POLYVINYL ACETATE (PVA)

This general-purpose adhesive is great for interior projects that won't be exposed to moisture. Available almost everywhere, from department stores to lumberyards, it's also the most economical choice listed.

**Clamp time:** 30 minutes  
**Full-strength time:** 24 hours



### EXTENDED-TIME PVA

Sharing the same properties as regular PVA glue, this adhesive provides extra open time that makes assembly and clamping of complicated glue-ups easier.

**Clamp time:** 45 minutes  
**Full-strength time:** 24 hours



### NO-DRIP PVA

Designed for vertical woodworking applications, such as applying interior trim, this extra-thick PVA adhesive has fast initial tack—you can clamp pieces by hand for a few minutes—and won't run or drip.

**Clamp time:** 10 minutes  
**Full-strength time:** 24 hours



### WEATHERPROOF PVA

A good choice for use on exterior projects subjected to rain and snow, but not submerged. Works well for any interior project but especially those that may come into contact with food or water, such as bowls or cutting boards.

**Clamp time:** 30 minutes  
**Full-strength time:** 24 hours



### EXTENDED-TIME WEATHERPROOF PVA

This adhesive shares the same properties of standard weatherproof PVA, but the extra open time it provides eases assembly and clamping of complicated glue-ups.

**Clamp time:** 45 minutes  
**Full-strength time:** 24 hours



### DARK WEATHERPROOF PVA

Simply a dyed version of weatherproof PVA glue, the darker color of this adhesive helps hide squeeze-out on dark hardwoods, such as walnut and mahogany.

**Clamp time:** 30 minutes  
**Full-strength time:** 24 hours



### WATERPROOF PVA

Waterproof PVA meets the highest level of water resistance possible, including brief submersion, and costs less than most polyurethane or epoxy adhesives. It requires no mixing, and creates less mess than other waterproof adhesives. It's also perfectly suitable for projects that won't get wet.

**Clamp time:** 30 minutes  
**Full-strength time:** 24 hours



### POLYURETHANE

Because it requires moisture to cure, polyurethane works well with damp woods, such as treated lumber. If there's no moisture present, dampen one side of the joint before application. Squeeze-out expands and foams as it cures. Wear rubber gloves, as the glue turns black upon contact with skin and is difficult to remove.

**Clamp time:** 60 minutes  
**Full-strength time:** 24 hours



### POLYURETHANE HOTMELT

Choose this adhesive for jobs requiring quick grab, such as when joining difficult-to-clamp parts. Requires a specialized heated applicator. It comes in both 30- and 60-second setup formulas.

**Clamp time:** 1–2 minutes  
**Full-strength time:** 24 hours



### HIDE GLUE

This adhesive has been used for centuries, making it ideal for period-exact repairs on antiques and musical instruments. Mix up a batch as needed by dissolving powdered glue in hot water. Because it stiffens as it cools, it requires a glue pot or other warming device. Cured bonds can be dissolved with warm water or steam.

**Clamp time:** 10 minutes  
**Full-strength time:** 24 hours



### PREMIXED HIDE GLUE

A ready-to-use liquid version of traditional hide glue, this adhesive can also be dissolved with steam or warm water after it cures so that joints can be disassembled. But because it doesn't need to be mixed or heated, it's more convenient to use.

**Clamp time:** 60 minutes  
**Full-strength time:** 24 hours



### STRUCTURAL EPOXY

Two parts—resin and hardener—must be mixed before use. It fills gaps, and is ideal for joints that will be completely submerged (boat builders use it), and for joints requiring extreme strength. This is one of your most expensive options.

**Clamp time:** 24 hours  
**Full-strength time:** 7 days



### 5-MINUTE EPOXY

Fast grab makes this a good choice for hard-to-clamp assemblies. It bonds oily woods, such as teak, and works great for end-grain joints or filling gaps, but is not as strong as its sibling, structural epoxy. It is second only to cyanoacrylate in cost per ounce, so for small jobs, choose the two-chambered syringe dispenser.

**Clamp time:** 5–20 minutes  
**Full-strength time:** 24 hours



### CYANOACRYLATE

Ounce for ounce, this most expensive of the listed adhesives is also known as instant glue or CA. Find it in thick, medium, and thin formulas. Thin formulas wick into small crevices, while thick can fill small gaps. Spritz on an accelerant (typically sold alongside the adhesive) for an almost instantaneous set. The brittle bond can be broken with a sharp sideways blow, making this adhesive useful for temporarily attaching parts. Its quick grab can help hold a piece in position while a second, stronger adhesive cures.

**Clamp time:** <1 minute  
**Full-strength time:** 24 hours



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SCHEDULED  
FOR  
NOVEMBER 21  
AT 7:00PM**

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 Director of Programs: ..... Matt Nowak..... [programs@kcwoodworkersguild.org](mailto:programs@kcwoodworkersguild.org)  
 Director of Assets:..... Chuck Saunders..... [assets@kcwoodworkersguild.org](mailto:assets@kcwoodworkersguild.org)  
 Director of Safety:..... John Sloss..... [safety@kcwoodworkersguild.org](mailto:safety@kcwoodworkersguild.org)  
 Asst Director of Safety..... Laura Provance .....  
 Newsletter Editor: ..... Ron Haw ..... [newsletter@kcwoodworkersguild.org](mailto:newsletter@kcwoodworkersguild.org)  
 Web Master: ..... Open..... [webmaster@kcwoodworkersguild.org](mailto:webmaster@kcwoodworkersguild.org)  
 Librarian:..... Andrew Carr..... [library@kcwoodworkersguild.org](mailto:library@kcwoodworkersguild.org)

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