

# WOOD WORDS

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Kansas City Woodworkers' Guild

PUBLISHED BY THE KANSAS CITY WOODWORKERS GUILD \* 3289 MERCIER ST \* KANSAS CITY \* MO \* 64111

## PRESIDENT'S MESSAGE

This has been a busy month for me and the Guild.

I'm trying to complete some small picture frames for my wife so that she can add a mosaic of tiles and glass to them. Obviously, I had to build a tablesaw jig to cut the miters precisely, spending a small fortune on toggle clamps, t-tracks, and hold down clamps.

I figured out that I could make the frames for about \$6 to \$10 a piece when the cost of the jig, wood, the easel back, glass, and mat is included.

Or, I could buy essentially the same frame at Michael's for \$1.99 to \$4.99. Each! EACH!

The Guild has a fundraising project going right now for toy boxes. If you'd like to help out, let us know and we'll put you to work! Projects like these help pay the bills.

The Guild Board of Directors will present to the membership for their approval bylaw changes that affect the manner in which Leadership Committee members and Board members are elected and term limits to each office. Additionally, there are refinements in the wording of the annual meeting section and removal of officers for the Board and Leadership Committee.

The vote is scheduled for the October 17, 2018, General Membership meeting. Bylaw changes require a quorum

of at least 10 percent of the membership to be present for the vote. An effort to amend the bylaws is required as part of the Mediation Agreement which settled the Lawsuit against the Guild. The Board of Directors encourages members to vote to adopt the bylaw changes. Members can view the current bylaws in the Members section of the Guild's website.

The complete text of bylaw changes is included elsewhere in this newsletter.



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

## MEMBER PROJECTS

Photos Courtesy  
Neal Ray Shoger



*Doug Buell*

*Brass Paddle*

*James Childress*  
*Project Name: Display*  
*Cabinet*

*Materials: Walnut, Hard*  
*Maple, Sycamore Banding*

*Finish: Oil*

*Points of Interest: Joinery*

*Challenges: Interior*



## SAFETY IS EVERYONE'S JOB

I think there's value in periodically reviewing some basic tenets of our safety culture. With current membership over 850, our Open Shop sessions are busier than ever, especially as we approach this year's Holiday season. It's kind of like driving when the traffic is heavy. It takes even more concentration and attention to detail than normal. With that in mind, I want to share a few reminders to help keep us all as safe as woodworkers in a hobbyist community setting can be:

**1. Safety glasses are always required.** Anytime the Shop is in operation, they are required, not just when you're operating a machine. That Safety Rule is, *"Wear safety glasses with side shields when the shop is in operation, wherever you are working, not just when you are using a machine yourself. Glasses should be ANSI Z87.1 rated."*

**2. 3 inches means 3 inches.** It sometimes takes some creativity and forethought to be compliant with the 3-inch Rule, but it surely pays off in the long run. I can't think of a single accident that has been incurred in the Guild shop where that Rule wasn't violated! If you can't figure out how to do it, ask the Foreperson. They are

all clever woodworkers with all of their original appendages still attached. Maybe you'll need to clamp your workpiece, use another type of holding device, attach it to a backing board... whatever it takes. 3 inches means 3 inches!

**3. Push blocks and push sticks come in many flavors.** Thanks to **Mike McCauley, Larry Welling, Mike Jones, Evin Moore, Craig Arnold** and **Chuck Saunders**, these tools are in very good shape in our shop. Try the different designs to determine which ones work best for you and your applications. And if you encounter a defective or damaged push block, please either repair it, dispose of it or bring it to the Foreperson's attention.

**4. Cleaning is for everybody.** After you use a machine or workbench, clean up your waste materials. That practice is only fair in a community shop and only takes a minute. Doing your part will cut down on dust in the air that we all breathe and lessen the chances of someone falling or otherwise injuring themselves, if they were to slip on stuff on the floor. And instead of ducking out with 20 minutes left in an Open Shop session, stick around and help your fellow members and the

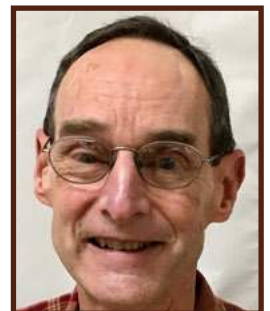
Foreperson really spiff up the joint. All the Forepersons take great pride in leaving the shop in great shape for the next Open Shop session. That's called teamwork!

**5. The Foreperson needs your eyeballs.** If you identify any aspect of a machine or shop area or shop user that you determine to be unsafe, please either address the situation yourself or bring it to the attention of the Shop Foreperson on duty at the time, as Chuck Saunders has directed.

One of the tremendous strengths of the Guild is that we are a Community. Support is there from a technical, social, and safety perspective. We do, and we need to, continue to help each other out. Nine times out of ten when you address a safety or housekeeping need, it's observed by the Foreperson and other Guild Members. We all have reputations for our performance in this regard. Make yours a great one!

Thanks for your Focus on Safety!

**John Sloss**  
Director  
of  
Safety



## EVENTS CORNER!

**T**hank you to all that came out to the September Guild Meeting and enjoyed hotdogs and sodas! I am very thankful to all the volunteers that came out to help. I couldn't have put on the event without YOUR help – Thank you!

The next event coming up is the City of Shawnee's Christkindlmarkt on Dec 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.

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 the homemade desserts! (This is probably the only time you'll be given an exception to put the finishing coat in the shop!)

by Alex Scott  
Director of  
Events



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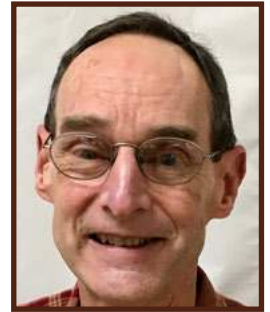
## KCWG'S AED (AUTOMATED EXTERNAL DEFIBRILLATOR) TO MEMORIALIZE PAST MEMBERS

Your Safety Committee will purchase an AED (Automated External Defibrillator) in the new year (2019). The delay of this expenditure has been budget related, but it has been prioritized for next year. This acquisition will honor three of our members who have passed in the past 12 months – Jerry Stanley, Jim Stuart and John Stoerman. In their honor, and as a result of donations made to the Guild in their names, these individuals will be recognized by way of a plaque to be placed on this device in the Guild Shop.

If you are or you know of a certified CPR/AED

trainer able and willing to provide the necessary related training to our Forepersons and some members of our leadership Committee, please let me know. Such assistance, which would allow us to avoid an otherwise significant training cost, would be most appreciated and would be recognized as such.

**John Sloss**  
Director  
of  
Safety



## SKILL BUILDER WITH LOTS OF WOOD CHIPS

On Saturday, October 6th, Jack Karstens demonstrated using the big green lathe that sits back in the corner by the belt sanders.

For this occasion it was laboriously moved up to the front,

where the show-and-tell usually is. Jack showed us how to attach wood to turning chucks and spindles, and some basic wood turning cuts all utilizing the tools that we currently have back with the lathe. He even showed us how to properly sharpen the tools using the bench grinder with the white grinding wheels. Jack did an excellent job demonstrating, explaining, and answering questions regarding this under utilized



tool. Although attendance was relatively low, we felt the rain and flooding kept some members from attending.

Those that did attend had the opportunity to increase their woodworking skills and to add another dimension to

future projects.

A special thank you to Jack Karstens for leading this skill builder clinic.

*Respectfully,*  
**Mike McCauley,**  
Assistant Training  
Director



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Neal Ray's Photography



Bloomers



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## FROM THE SHOP

The Guild shop is communal or community shop. While that may bring up images of hippies and vacant lots turned into community gardens, it just means sharing the space with others that are working on their own separate projects. That makes it a lot different from working in your own single person shop. Not in terms of equipment or floor space but in terms of awareness. When you are in your own shop be it garage, basement, outbuilding or deck, you need to be aware of your actions and the possibility that an intruder might venture into your domain. The intruders (often known as family members, neighbors or pets) are usually coming to make contact with you and interrupt your work. A kind "get out of here" usually does the trick. Your project is the one and only and tools can be grouped and setup for each step in the process, at least until it starts raining or the car has to come back into the garage.

In a community shop everyone is working on their own projects and thinking about the next cut to make and will there be enough wood to remake that drawerfront and do I need to joint these edges ect. This is where all need to turn on their awareness radar to 11. You need to be

aware of the work that you are doing to avoid mistakes and injuries, You need to be aware of others that might not realize that they are entering your work envelope, You need to be aware of others so that you do not enter their work envelope. Nothing like cutting on the tablesaw and having a broom run into your feet. Cleaning is good but... And you need to be aware of others in case they get into a situation where a helping hand could make all the difference (with their knowledge and approval), It is a community shop after all.

Working in a community shop also means that space and tools are shared. This restraint limits your ability to gather everything you need before you start and leave it where you need it until you're finished. That means you will have to work in phases adapting to availability. Is this a problem? Are members not sharing? No, not at all. However because you have to change your pattern of work you might feel unproductive and infer that the shop is overcrowded and under equipped because you can't layout everything you will need at the start. This affects two groups most, the member that is used to working in their own private shop and the new woodworker that wants to assemble the whole picture to insure they haven't forgotten

something.

Luckily we provide an average of 230 hours a month of shop time allowing you to find your time when the shop is not too crowded. As long as we all stay aware of our surroundings the shop can be busy, productive and enjoyable.

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



**POWERTOOL SIG**

**SUNDAY  
NOVEMBER 4TH  
3:00**

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MOTORS**

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TO DIG INTO  
ELECTRIC  
MOTORS OF  
ALL KINDS**

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## PLEASE WELCOME THESE 20 NEW MEMBERS WHO JOINED THE GUILD IN SEPTEMBER 2018

<b>FIRST NAME</b>	<b>LAST NAME</b>	<b>HOMETOWN</b>	<b>STATE</b>	<b>MEMBERSHIP</b>	<b>JOINED</b>
Tom	Awe	Greenwood	MO	Sawdust	9/26/2018
Brett	Evans	Independence	MO	Sawdust	9/6/2018
Bill	Griffith	Fairway	KS	Sawdust	9/3/2018
Vienna	Ilagan	Kansas City	MO	WW+	9/30/2018
Kyle	Kramer	Olathe	KS	WW+	9/25/2018
Nathan	Livingston	Kansas City	MO	Sawdust	9/29/2018
John	Lorg	Lenexa	KS	Sawdust	9/4/2018
Josh	Lorg	Olathe	KS	Sawdust	9/2/2018
Mark	Miller	Liberty	MO	WW+	9/8/2018
Tim	Miller	Leawood	KS	WW+	9/10/2018
Wesley	Morris	Kansas City	MO	WW+	9/15/2018
Omid	Nabavizadeh	Olathe	KS	Sawdust	9/16/2018
Mike	Nickel	Leawood	KS	Sawdust	9/27/2018
Michael	Seitz	Overland Park	KS	WW+	9/8/2018
Tom	Stanle	Kansas City	MO	Sawdust	9/16/2018
Evan	Stein	Kansas City	MO	Sawdust	9/12/2018
W Thomas	Stelle	Lenexa	KS	Sawdust	9/6/2018
Julie	Thoendel	Fairway	KS	Sawdust	9/25/2018
James	Waymire	Olathe	KS	Benefactor	9/4/2018
Ethan	Weber	Kansas City	MO	WW+	9/12/2018

*Ken Grainger*

*Project Name: Fly Rod Case*

*Materials: Poplar,  
Walnut*

*Finish Used: Polyurethane*



## MEMBER PROJECTS

**Photos Courtesy  
Neal Ray Shoger**



*Ken Grainger*

*Project Name: Band Saw  
Resawing and Bookmatch  
Veneer*

*Materials: Walnut*

## CNC UPDATE

As most members know, the CNC machine is currently undergoing an upgrade to make it more reliable and accurate. The CNC machine is currently scheduled to be returned to the Guild by the 24th of October, and that date appears reasonable. Because of the many changes and enhancements that are being made, it will be a very different machine than what we had before. That means that users of the old machine will need to learn the new steps and procedures in order to effectively use the upgraded CNC machine. For members that have yet to jump into the CNC world, we are producing introductory documentation aimed at making your transition into using the CNC machine easier.

The October CNC SIG meeting is scheduled for October 24th at 7 pm. We plan, at that time, to preview the upgraded CNC machine, and review some of the operational changes that this upgraded



CNC environment will bring to Guild members. If there are any changes to this schedule, we will communicate those changes via email.

Gary Mielke / Mike Sommers

## CARVER DENNIS BIXBY TO SPEAK AT GUILD MEMBERSHIP MEETING

Dennis Bixby is a well known woodcarver in the Kansas City region and often teaches various aspects about wood carving at our local Woodcraft store. Dennis will also be giving our program at the October meeting. One of his talents is to be able to capture the human face in wood and he will inform us about that aspect of carving.



Of course, he will also visit about other aspects of carving, too, including sharpening our tools. Tool sharpening, especially of those quirky carving tools, is a challenge. Actually, Dennis can do a program just on sharpening carving tools and I would ask him some serious questions while we have him at the Guild meeting. I am also hoping that we can talk him into giving future classes and workshops at the Guild. Speaking of quirky, Dennis apparently discovered that they do have

speed traps in Escanaba, Michigan, the heart of the Upper Peninsula or Yooper Land, so I got him a Yooper dictionary while I was visiting family there recently so that the next time that he has an up-close and personal meeting with the locals, he can understand what they are saying.

**Matthew Nowak**  
Director of  
Programs





***Tom Smoller***

***Project Name: Kitchen***

***Materials: Cherry***

***Finish Used: Dye, Glaze, Poly***

***Points of Interest: Range Hood***

***Challenges encountered: The amount of work needed to complete the project.***

## **MEMBER PROJECTS**

**Photos Courtesy  
Neal Ray Shoger**

## ARE WE UNUSUAL?

The last week of September turned out to be very stressful for me. Professionally I had to travel to a client location. The client was unhappy. I had other clients needing attention at the same time. Our grandchild was born a little premature and had some struggles breathing on his own (he is okay now!). Then I missed my plane home Saturday night. I flew out early Sunday morning to arrive in time to meet some commitments at the guild. Really tired, dragging, and feeling just beat to heck, I walked into the guild shop. What a magical experience. John Wilson's wooden tool class was going full swing, people were fitting wood parts, heat treating metal, and I think I even saw a tool or two 'not on the menu' being fabricated. Open shop was going on during that time as well and there were guild members in the hand tool room working on projects. I was also able to spend some time helping to get a new guild class together (I won't give it away but get your pike pole ready!). To say the least, it was rejuvenating.

I was given the privilege of speaking a little with John

Wilson while we wrapped up the transaction for the classes. I mentioned to John that the classes seemed well attended. He agreed but said that our guild was a little unusual. I said, "How so?". John said that by far and away when he teaches the shaker box class along with the wooden tools class, it's the tools class that fills up fastest and has the most students. In our guild it was the exact opposite. Maybe it is the investment required that keeps other organizations from embracing the box class. Maybe it is the beauty and the skill of the shaker boxes that draws our members to that class. I don't know, but John says that we are unusual.

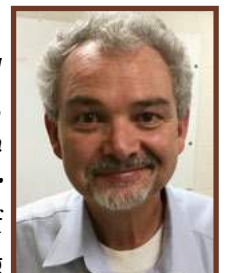
This started me thinking about being unusual (I have been accused of that for most of my life.) Is our guild unusual? We do have over 800 members and full shop access to all tools is available for less than \$100 PER YEAR, the average maker space fee is about \$60 per month. That's unusual. We have people that regularly give up their time and skills to drive fundraising projects that keeps the guild member fees lower for all of us. That

is also unusual. We have several high-quality classes that we establish for the members each year and we keep the prices low, hovering around what our cost is to deliver the class. That too is unusual. You won't find low prices at Marc Adams, The Connecticut Valley School of Woodworking, or the Northwest Woodworking Studio. In addition to the guest instructors that we bring in from across the country, at any given time I can draw on more than twenty instructors to have a class. We are only limited by space and time. We also recruit and coach guild members to teach classes. That is very unusual.

After reflecting on this I must say that I agree with John Wilson, we are unusual. I love unusual. I embrace unusual. I am thankful for unusual.

Until next month, keep the sawdust flying and please, please, remain unusual,

Happy  
Sawdust,  
**Norm**  
**Carpenter**  
Director of  
Training



*Larry Welling*

**Project Name:** *Marquerty Panel*

**Materials:** *Multiple species of veneer*

**Finish Used:** *Lacquer over Shellac*

**Challenges encountered:** *Just doing it.*



**MEMBER PROJECTS**  
**Photos Courtesy**  
**Neal Ray Shoger**



*Rick Bywater*

**Project Name:** *Big Derriere*

**Materials:** *Silver Maple*

**Finish Used:** *Walnut oil & Lacquer*

**Points of Interest:** *A ring Bottom, One of Three (The Largest)*

**Challenges encountered:** *Once Turned, involves a lot of sanding.*

## OCTOBER 2018 INTERESTING VIDEOS....

YouTube 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



By Andrew Carr

Did you know that the Guild has a YouTube channel? There's a few videos up that show off the guild and some old show and tell videos.

Take a look: <https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fuser%2Fkcwoodworkers%2F&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&sd=CI028BBDEqdp6XsGauu11OvMgtF3kAot4sfE0Idln8%3D&reserved=0>

These videos should also be part of a playlist on the channel, so take a look! (Better than a link with 64 random characters and letters, at least). Enjoy!

### STAMMER! Stamp + Hammer

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D4AuR4QZVpL0&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&sd=eR1XnWmvyv%2B2KDIVOijO%2BqbWqxZ6QMD83XFNf%2FyPXFw%3D&reserved=0>

Runtime 7 Minutes. With the CNC coming back online, here's a pretty interesting application of making your own stamp. And rubber hammer. With the stamp. It's very suited for people's inner 7 year old to 'leave your mark where you go'

### Build It | Entryway Wall Shelf

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DnWsvbgr4Bko&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&sd=KgVAjW SUQlIti1g3k40QmQk5B0ZO7R%2F%2BkQDEsWkdKAI%3D&reserved=0>

Runtime 6 Minutes. Sometimes you just need a dose of 'This Old House' - Tommy Silva and Kevin Thomas makes an entryway wall cubby shelf using materials from the local home center. It's a pretty simple project but filled with the basics of case construction.

### Router Table Dust Collection Box (Part 2)

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DianIcUM5ZcU&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&sd=%2Bxc55fZ90ibYAFHDmaphc2dpABokteserGQ4dlZWkA8%3D&reserved=0>

Runtime 8 Minutes. Blake Weber shows how easy it is to wire up your own power tool safety switches. With a mini-project of an easy way to store your drills. Part 1 covers the actual box. Note: be afraid of angry pixies - improper wiring can let them escape from the cables.

### Cutting Keyhole Slots for Hanging Pictures and Plaques

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch>

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<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D8iNDKltSaMI&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&data=ViyCoEFXKvbeEufNgfGWqgTXXIpa13jc95DRTzblT04%3D&reserved=0>

Runtime 3 Minutes. A Woodworker's Journal router basics in cutting those slots to hang things on walls without all of the metal hardware. If you've never used a keyhole for hanging a project, give it a shot! It adds a classy look and feel plus is pretty cheap if you're making a bunch of items in comparison to buying hardware.

### DIY Radius Router Templates

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D8iNDKltSaMI&data=02%7C01%7C%7Ca5d2d420578c4d11986c08d62c5c62e6%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C636745172632499642&data=yvBli4HsCaUVoP4H2P1tDTh56H4fBI%2F%2BUZaBF3T5s1c%3D&reserved=0>

Runtime 6 Minutes. Another CNC project to create some templates to help you round over sharp corners. No more reaching for random round objects for a radius of unknown dimensions. This was also a Woodpecker's One Time Tool, for a lot more money! While he starts the project on the CNC, it should be easy enough to lay these templates out by hand if you don't feel like using the computer.



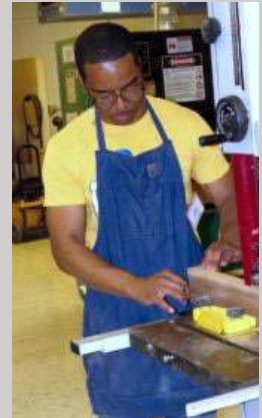
## Rough to Ready

### 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.



## SANTA WILL BE ON HIS WAY ALL TOO SOON, BUT HE NEEDS SOME EXPERIENCED TOY MAKING ELVES

**Y**our kids, grandkids, nieces, nephews, friends, family, and neighbors will treasure the wooden toys YOU made for them.

Some of those that have taken the class other years proclaim that the wooden toys become treasured family keepsakes.

There are a few openings in the Toy Class, Saturday, November 17th.

In this class you will build 3 wooden toy trucks and a 5-car toy train. During the class you will learn how to produce multiples and have a repeatable good quality every time.

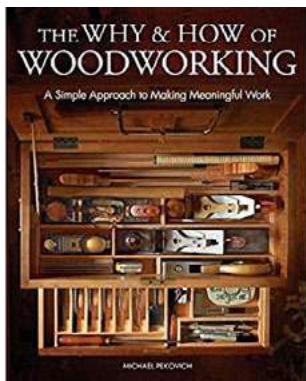
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## A BOOK REVIEW

**I** just picked up a copy of Michael Pekovich's new book *The WHY & HOW of WOODWORKING* and my immediate reaction was simply "WOW!". This book is inspirational, instructional and refreshing all in one volume.



In the first chapters he captures the interest, excitement and creative feelings that we all have when we go to the workshop to build something. His approach to organization and purpose of his work will make you think about more about yours. His approach to design provides the starting catalyst that all of us need to

break the chains of creativity that keep up copying the exact plan of someone else.

Michael credits the influences of James Krenov, Tage

Frid and Sam Maloof as well as the Shakers and the Arts and Crafts movement for the foundations of his work. In the second half of the book, you will find all of these plus his personal touches on the projects that he presents. I think that his use of the hemp cord for box handles, his magnetic box latch and his introduction of the kumiko motive will find their way into the work of many contemporary woodworkers. I expect that his *TEA BOX WITH OYSTERS AND PEARLS IN MIND* on page 126 will be replicated on many of our workbenches.

I recommend this book as a bench manual for all woodworkers, old and new, to help you draft a new perspective for your own work. I think that Michael Pekovich will become the new American Krenov.



By David Kratz

## IN REMEMBRANCE

**L**ee Goodman Mills passed away peacefully at home on Sunday, September 23, 2018, after a long battle with sarcoma. Born in Des Moines, Iowa, on February 9, 1952, to Robert Hernan Mills and Audrey Marie Goodman Mills, he was raised in Sioux Falls, South Dakota. Lee graduated from Lincoln Senior High in 1970, where he played basketball and football.

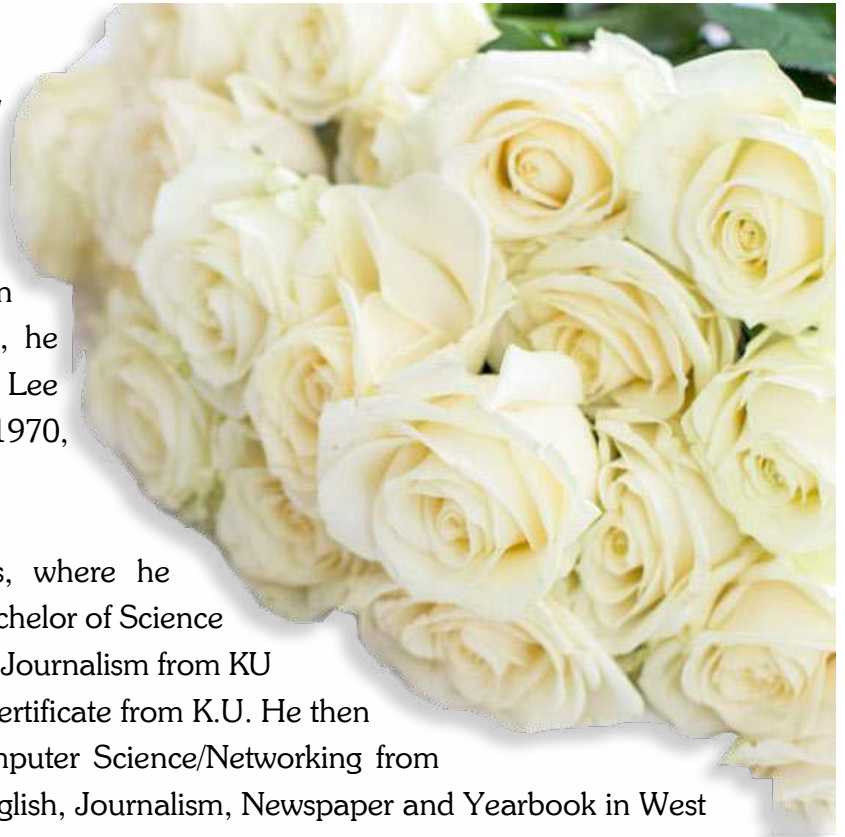
Lee attended the University of Kansas, where he played rugby. He received his both his Bachelor of Science degree in 1975 and his Master's degree in Journalism from KU in 1985. In 1989 he earned his teaching certificate from K.U. He then earned a second Masters degree in Computer Science/Networking from Fort Hays State University. Lee taught English, Journalism, Newspaper and Yearbook in West Franklin, Emporia, and Bonner Springs School Districts. He retired from USD 290, Ottawa, in 2012 after teaching English, Journalism, Newspaper, Yearbook, Desktop Publishing, Printing, Networking, Cisco, and working in the IT department. Lee was a member of NEA-KNEA-OEA. Lee was very proud of his students and their successes in life, keeping in touch with many of them.

Lee inherited his grandfather's love for woodworking, remodeling the house where he and Katie raised their children. In retirement, he became a wood turner and was a member of both the Wood Turners Club and Woodworking Guild of Kansas City. He enjoyed fly fishing is entire adult life, so much so that he built his own fly rods and learned to tie flies.

He is survived by his wife, Catherine Ann Ecroyd; his mother, Audrey Marie; two daughters, Joanna Catherine Mills and Rebecca Mary (Mills) Alderman and husband Alex; two grandchildren, Max William and Sophia Fay; and his brother and wife, Hans Michael Mills and Debra Whitlock-Mills.

There will be a private family memorial service at Evergreen Mound Cemetary at a later date.

Because all of Lee's nurses were so important to him and his family during his long illness, memorial contributions may be given to the Jean Geiss Nursing Scholarship at the University of Kansas Medical Center or Hospice Partners sent in c/o Lamb-Roberts Funeral Home, P.O. Box 14, Ottawa, KS 66067. Condolences to the family may be sent through [www.lamb-roberts.com](http://www.lamb-roberts.com).



## COMPARING HARDWOOD 'HARDNESS' USING THE JANKA HARDNESS SCALE

The Janka hardness chart was created as a result of the Janka hardness test. The Janka test measures the hardness of wood so that wood species can be compared to one another. The Janka chart is commonly used in the flooring industry to compare hardwood flooring types. Although not exact, the scale is a good reference for which hardwood can better withstand denting and wear when compared with another wood species. The higher the Janka rating, the more dent and wear resistant a particular wood is. In addition, the rating can determine a wood's ability to be sawn or nailed. The higher the rating usually means it is harder to work with than the woods lower in the Janka hardness scale.

The Janka process of measuring the hardness of wood begins with embedding a steel ball (0.444 inches in size) until it reaches halfway of its diameter into the wood. The measurement in America is done in pounds-force (lbf) and the results are put into the Janka scale or chart such as the one below. The American chart has been accepted by the global flooring community as a common reference for the hardness of wood. As an example, red oak hardwood has a Janka rating of 1260, meaning it took 1260 pounds of force to embed the steel ball half way into the sample piece of red oak. Hardwood flooring species are usually compared to red oak as the basis, such as; Brazilian Cherry (Jatoba) hardwood flooring is 224 times harder than a red oak floor.

The hardness of the wood can depend on the direction of the wood grain that is supplied for the test. Flat grain or horizontal grain is the normal wood grain used to compare woods of different species. The vertical grain of wood is also tested, but is not normally displayed in the Janka hardness chart. The most common Janka test and the one displayed in most hardness charts, is the test that has the ball embedded in the face of the wood, and not on the edges or the ends. Values are obtained from multiple courses, and represent air-dried wood at 12% moisture.

So how does your favorite hardwood stack harden up?

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)		Species List by Hardness	Janka Rating (lb.)
Acacia .....	1750	25	17,500	◇	Lignumvitae .....	4500
Afromosia.....	2524	54	14,880	◇	Verawood.....	4000
Azelia, Doussie .....	1810	48	19,180	◇	Curupay, Curupau.....	3840
Abarco .....	1020	37	12,910	◇	Kurupaya.....	3840
Alder, red .....	590	23	9,800	◇	Mahogany, Brazilian Tiger .....	3840
Amberwood .....	2200	48		◇	Patagonian Rosewood.....	3840
Amendoim, Ybyraro.....	2947	50	16,900	◇	Snakewood .....	3800
Anchico.....	2524	53	15,220	◇	Ebony, Brazilian .....	3692
Andiroba, Virola.....	1130	28	15,620	◇	Walnut, Brazilian .....	3680
Angelim Pedra, Amburana .....	3040	35	17,600	◇	Cherry, Bolivian .....	3650
Angelin.....	1750	40	19,410	◇	Cumaru, Brazilian Teak .....	3540
Angelique.....	1290	47	17,390	◇	Tiete chestnut, Almendrillo .....	3540
Angico, Vermelho.....	3020	53	23,620	◇	Paraju, Brazilian redwood, Jutahy .....	3500

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## Continued from Previous Page (19)

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Aniegre.....	980	34	14,740	Ipe, Lapacho .....	3342
Apple .....	1480	40	19,110	Tiete rosewood.....	3280
Ash, blue .....	2030	28	15,000	Ebony.....	3220
Ash, white .....	1320	41	15,000	Oak, live .....	3200
Aspen, bigtooth .....	420	25	8,500	Cherry, tropical/Mayan; Machiche, Cerezo .....	3190
Aspen, quaking .....	337	26	8,480	Massaranduba .....	3190
Avodire .....	1250	34	13,710	Rosewood, Indian.....	3170
Azobe.....	2940	56	20,960	Bulletwood, Balata, Macaranduba.....	3070
Balau.....	1642	52	17,540	Angelim Pedra, Amburana .....	3040
Balsa .....	100	7	3,000	Brushbox.....	3025
Bamboo .....	1450	48	14,660	Angico, Vermelho.....	3020
Bamboo, carbonized .....	1180	48		Marishballi .....	2967
Bamboo, natural .....	1380	48	24,700	Amendoim, Ybyraro .....	2947
Bamboo, timbergrass .....	1642	48		Azobe .....	2940
Banak, Kirikawa .....	911	35	12,990	Grenadilla, Mpingo, African blackwood .....	2940
Bangkirai, Amang besi.....	1987	49	17,760	Mangrove, red .....	2940
Basswood, American.....	367	26	8,480	Bloodwood.....	2900
Beech, American .....	1300	44	14,900	Etauba, Itauba .....	2900
Beech, Australian; Blackbutt.....	1569	52	20,230	Faveira .....	2895
Benge, Muteneye .....	1983	49	20,490	Manbarklak, Black kakaralli .....	2890
Birch, yellow .....	1260	36	15,570	Rosewood, Brazilian; Jacaranda .....	2860
Black cherry .....	788	34	12,360	Okan .....	2780
Blackwood, African .....	1720	75	29,060	Pearwood, African; Aboga.....	2732
Bloodwood .....	2900	51	21,600	Boxwood, Buis .....	2730
Bocote, Cabreuva, Santos Mahogany .....	2200	58	15,580	Pau ferro, Brazilian ebony .....	2713
Boire, Bodowood.....	1326	48	13,570	Purpleheart, Amaranth, Pau roxo .....	2713
Boxelder.....	720	29	5,140	Bubinga, African rosewood.....	2628
Boxwood, Buis.....	2730	55	20,960	Turpentine.....	2624
Breu .....	980	38	13,620	Tigerwood, Muiracatiara.....	2620
Brushbox.....	3025	61	21,460	Mahogany, Santos' Cabreuva.....	2600
Bubinga, African rosewood .....	2628	55	24,240	Satinwood .....	2600
Buckeye, yellow .....	350	42	1,420	Greenheart .....	2593
Buckthorn, Cascara .....	1040	32	8,580	Marblewood .....	2532
Bulletwood, Balata, Macaranduba.....	3070	60	25,610	Afromosia.....	2524
Butternut, Whate walnut.....	490	25	8,100	Anchico .....	2524
Cambara .....	941	37	14,580	Ironbark, red.....	2470
Camphorwood .....	930	39	14,190	Quebracho Colorado.....	2470
Canarywood .....	2000	31	18,600	Kaneelhart, Ajoewa .....	2464
Catalpa .....	550	26	9,400	Mora.....	2424
Cativo .....	625	29	8,150	Macawood.....	2406
Cedar, Red juniper .....	900	30	11,890	Morado.....	2400

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## Continued from Previous Page (20)

Species List Alphabetically	Janka Rating (lb.)	Density (lb./cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Cedar, Spanish.....	1006	30	7,500	Osage orange .....	2400
Cedar, yellow .....	580	29	10,380	Pyinkado .....	2369
Ceiba, Kapok .....	281	19	5,150	Jatoba, Brazilian cherry, Coubaril.....	2350
Chechen, Black poisonwood .....	2200	63		Mesquite .....	2345
Cherry, black .....	950	33	12,300	Tamarind.....	2318
Cherry, Bolivian .....	3650	50	19,400	Macadamia.....	2300
Cherry, tropical/Mayan; Machiche, Cerezo .....	3190	53	12,330	Ironwood.....	2299
Chestnut, American .....	540	35	9,340	Tornillo.....	2299
Chinkapin, giant.....	730	33	10,490	Pradoo, Burma padauk .....	2267
Cocobolo .....	1136	63	9,870	Persimmon .....	2254
Coconut palm .....	1600	37	14,860	Wenge.....	2235
Coffeetree, Kentucky .....	1390	37		Tatajuba .....	2220
Copaiba, Bacana.....	1470	30	13,530	Padauk, African.....	2219
Cottonwood, eastern .....	377	26	8,270	Amberwood.....	2200
Cuangare .....	911	35	12,990	Bocote, Cabreuva, Santos Mahogany.....	2200
Cumaru, Brazilian Teak.....	3540	66	25,580	Chechen, Black poisonwood .....	2200
Curupay, Curupau .....	3840	65	26,730	Mahogany, Incensio, Cariuva .....	2200
Curupixa .....	1018	63		Ziricote .....	2200
Cypress, Australian hard.....	1375	42	11,400	Gum, spotted; Australian hickory.....	2185
Cypress, Mexican .....	460	29	10,600	Narah, Amboyna.....	2170
Degame.....	1816	50	21,890	Goncalo Alves, Tigerwood.....	2160
Determa .....	657	40	13,590	Dogwood, flowering .....	2150
Dogwood, flowering .....	2150	50	18,540	Sucupira .....	2140
Doussie .....	2103	49	19,180	Doussie.....	2103
Ebony .....	3220	68	27,400	Moabi, Guajara .....	2100
Ebony, Brazilian .....	3692	74	29,000	Ash, blue .....	2030
Ekop .....	915	44	16,550	Pilon, Angelim .....	2020
Elm .....	769	40	12,080	Karri .....	2010
Embira-branca .....	669	41		Tallowwood.....	2007
Etauba, Itauba.....	2900	52	17,620	Canarywood.....	2000
Eucalyptus.....	1125	49	16,200	Bangkirai, Amang besi.....	1987
Faveira .....	2895	62	23,630	Ivorywood, Pau marfim .....	1987
Fir, Douglas.....	660	30	12,600	Wallaba .....	1986
Fir, white .....	407	23	8,580	Benge, Muteneye.....	1983
Freijo.....	1627	36	14,240	Para-angelim .....	1958
Garapa, Goldenwood.....	1700	52	20,040	Tualang .....	1938
Goncalo Alves, Tigerwood .....	2160	59	17,500	Jarah.....	1910
Grapia.....	1658	55	20,040	Yellowheart, Anan .....	1878
Greenheart.....	2593	50	26,150	Hophornbeam, Ironwood.....	1860
Grenadilla, Mpingo, African blackwood.....	2940	75	29,060	Tarara.....	1860
Gum, spotted; Australian hickory .....	2185	55	19,360	Hickory.....	1820

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## Continued from Previous Page (21)

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Gum, Sydney blue .....	1273	48	17,130	Pecan .....	1820
Gumbo Limbo.....	370	24	4,900	Degame.....	1816
Hackberry .....	880	38	9,630	Afzelia, Doussie .....	1810
Hemlock, mountain.....	467	30	10,320	Serviceberry.....	1800
Hevea .....	995	28	9,500	Sandalwood .....	1798
Hickory .....	1820	51	20,200	Kempas, Thongbueng.....	1797
Holly, American .....	1020	38	5,540	Lyptus .....	1796
Honeylocust .....	1548	42	14,410	Hornbeam, American .....	1780
Hophornbeam, Ironwood.....	1860	49	8,380	Rosewood .....	1780
Hornbeam, American.....	1780	47	16,010	Shorea.....	1780
Hura.....	558	27	8,010	Mastic.....	1770
Ilomba.....	749	30	10,470	Acacia.....	1750
Imbuia, Imbuaya.....	982	39	12,590	Angelin .....	1750
Ipe, Lapacho .....	3342	59	25,860	Opepe .....	1724
Iroko, Kambala.....	1260	41	13,580	Blackwood, African.....	1720
Ironbark, red .....	2470	66	14,950	Piquia.....	1720
Ironwood.....	2299	50	21,440	Garapa, Goldenwood.....	1700
Ivorywood, Pau marfim.....	1987	50	20,100	Locust, black.....	1700
Jarrah.....	1910	54	16,200	Patens .....	1691
Jatoba, Brazilian cherry, Coubaril.....	2350	50	25,100	Maria-preta, Arvore-da-chuva.....	1668
Jelutong .....	357	28	8,550	Grapia .....	1658
Juniper.....	1160	31	8,940	Zebrawood .....	1658
Kaneelhart, Ajoewa .....	2464	43	21,600	Merbau .....	1654
Kapur .....	1205	47	17,040	Roxinho.....	1650
Karri .....	2010	56	19,140	Shedua, Amazakoue.....	1650
Kauri, Agathis.....	1350	39	11,300	Balau.....	1642
Kempas, Thongbueng .....	1797	55	16,770	Bamboo, timbergrass.....	1642
Keruing, Apitong .....	775	46	14,050	Walnut, tropical; T'zalam .....	1630
Kiiat, Muninga, Mukwa.....	1564	39	16,280	Freijo .....	1627
Koa .....	1551	37	11,230	Peroba de campos, White peroba.....	1624
Kurupaya .....	3840	66	29,290	Quina .....	1611
Lacewood, Leopardwood, Lauro Faia .....	891	28	8,620	Coconut palm.....	1600
Larch, western.....	745	35	12,800	Olive, Brazilian; Taxi .....	1600
Laurel, California; Myrtle.....	784	34	12,740	Yew, Pacific.....	1600
Lignumvitae .....	4500	77	21,440	Timborana.....	1570
Limba.....	731	34	10,410	Beech, Australian; Blackbutt .....	1569
Locust, black .....	1700	44	19,400	Tree-of-heaven, Ailanthus.....	1568
Louro .....	1441	44	18,650	Kiiat, Muninga, Mukwa .....	1564
Lyptus .....	1796	50	18,860	Koa.....	1551
Macadamia .....	2300	44		Honeylocust .....	1548
Macawood .....	2406	63	21,670	Witch hazel.....	1530

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## Continued from Previous Page (22)

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Madrone, Pacific; Manzanita .....	1460	43	10,400	Mahogany, sapele.....	1500
Magnolia, southern.....	1000	34	10,980	Maple, Brazilian.....	1500
Mahogany, African, Khaya .....	1395	44	15,260	Tauari.....	1500
Mahogany, Brazilian Tiger.....	3840	60	20,120	Pau-santo, Angelica.....	1490
Mahogany, Incensio, Cariuva.....	2200	35	11,514	Apple.....	1480
Mahogany, Royal.....	1400	41	15,620	Copaiba, Bacana.....	1470
Mahogany, Santos' Cabreuva .....	2600	56	20,370	Madrone, Pacific; Manzanita.....	1460
Mahogany, sapele .....	1500	42	16,300	Bamboo .....	1450
Mahogany, true; Lauan.....	800	35	11,514	Maple, sugar.....	1450
Makore, African cherry .....	1294	43	14,620	Louro .....	1441
Maminha-de-porca.....	523	35	15,430	Tulipwood, Pau rosa .....	1441
Manbarklak, Black kakaralli.....	2890	59	24,100	Sapele .....	1439
Mango.....	980	39	13,510	Santa Maria.....	1410
Mangrove, red.....	2940	56	20,960	Mahogany, Royal .....	1400
Manni, Chewstick.....	1304	43	17,330	Mahogany, African, Khaya .....	1395
Maple, Brazilian.....	1500	34	19,870	Coffeetree, Kentucky .....	1390
Maple, hard-rock.....	1156	35	13,030	Sepetir.....	1382
Maple, sugar.....	1450	39	15,800	Bamboo, natural.....	1380
Marblewood.....	2532	64		Cypress, Australian hard.....	1375
Maria-preta, Arvore-da-chuva .....	1668	59	22,670	Kauri, Agathis.....	1350
Marishballi.....	2967	59	23,380	Oak, white.....	1333
Massaranduba.....	3190	61	29,290	Boire, Bodowood .....	1326
Mastic.....	1770	44	12,400	Sourwood.....	1326
Meranti, dark red.....	908	38	10,610	Ash, white.....	1320
Merbau.....	1654	49	15,560	Manni, Chewstick .....	1304
Mersawa.....	1290	40	10,620	Beech, American .....	1300
Mesquite.....	2345	50	16,000	Makore, African cherry .....	1294
Moabi, Guajara .....	2100	51	25,300	Angelique .....	1290
Mora .....	2424	62	21,080	Mersawa.....	1290
Morado .....	2400	55	17,700	Oak, red .....	1290
Movingui, Ayan.....	1278	45	17,000	Walnut, Mansonia; Imbuya.....	1290
Narah, Amboyna .....	2170	41	13,000	Movingui, Ayan .....	1278
Nyatoh .....	1171	30	15,290	Ramin.....	1274
Oak, Asian; Rubberwood .....	890	37	9,500	Gum, Sydney blue.....	1273
Oak, live.....	3200	62	18,030	Birch, yellow.....	1260
Oak, red.....	1290	44	14,300	Iroko, Kambala.....	1260
Oak, white.....	1333	48	14,460	Avodire.....	1250
Obeche .....	408	24	8,110	Pine, Caribbean.....	1240
Okan.....	2780	59	20,860	Kapur .....	1205
Okoume, aboon.....	431	27	10,300	Bamboo, carbonized .....	1180
Olive, Brazilian; Taxi.....	1600	56	18,800	Nyatoh .....	1171

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## Continued from Previous Page (23)

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Opepe .....	1724	47	17,670	Juniper .....	1160
Osage orange .....	2400	54	18,000	Maple, hard-rock .....	1156
Padauk, African .....	2219	47	17,980	Thuya, Thuja, Arar .....	1155
Para-angelim .....	1958	48	18,260	Cocobolo .....	1136
Paraju, Brazilian redwood, Jutahy .....	3500	60	27,930	Andiroba, Virola .....	1130
Parana-Pine .....	780	34	9,520	Eucalytpus .....	1125
Patagonian Rosewood .....	3840	62	29,290	Teak .....	1075
Patens .....	1691	53		Buckthorn, Cascara .....	1040
Pau ferro, Brazilian ebony .....	2713	57	22,460	Teak, Brazilian; Tatajuba .....	1038
Pau-santo, Angelica .....	1490	73	27,180	Abarco .....	1020
Pearwood, African; Aboga .....	2732	58	24,870	Holly, American .....	1020
Pecan .....	1820	39	13,430	Curupixa .....	1018
Peroba de campos, White peroba .....	1624	46	16,470	Walnut, black .....	1010
Persimmon .....	2254	51	18,230	Cedar, Spanish .....	1006
Pilon, Angelim .....	2020	50	16,850	Magnolia, southern .....	1000
Pine .....	870	34	13,100	Hevea .....	995
Pine, Caribbean .....	1240	41	16,300	Pink ivory .....	995
Pine, lodgepole .....	402	29	9,090	Sakura, Chinese birch .....	995
Pine, spruce .....	647	34	10,190	Roble .....	987
Pink ivory .....	995	43	20,400	Imbuia, Imbuya .....	982
Piquia .....	1720	58	17,060	Aniegre .....	980
Poplar .....	432	29	9,435	Breu .....	980
Pradoo, Burma padauk .....	2267	54	19,610	Mango .....	980
Primavera .....	799	29	10,930	Cherry, black .....	950
Purpleheart, Amaranth, Pau roxo .....	2713	57	22,460	Cambara .....	941
Pyinkado .....	2369	55	18,010	Camphorwood .....	930
Quaruba, Copaie .....	593	30	10,820	Ekop .....	915
Quebracho Colorado .....	2470	59	17,760	Banak, Kirikawa .....	911
Quina .....	1611	48	16,820	Cuangare .....	911
Ramin .....	1274	42	17,020	Meranti, dark red .....	908
Redwood .....	402	25	9,840	Cedar, Red juniper .....	900
Roble .....	987	39	13,640	Sande .....	900
Rosewood .....	1780	53	16,970	Lacewood, Leopardwood, Lauro Faia .....	891
Rosewood, Brazilian; Jacaranda .....	2860	55	20,180	Oak, Asian; Rubberwood .....	890
Rosewood, Indian .....	3170	53	16,490	Hackberry .....	880
Roxinho .....	1650	56		Pine .....	870
Sakura, Chinese birch .....	995	35		Tupelo, gum .....	861
Sandalwood .....	1798	59	16,540	Sweetgum .....	850
Sande .....	900	38	14,310	Mahogany, true; Lauan .....	800
Santa Maria .....	1410	39	14,640	Primavera .....	799
Sapele .....	1439	41	16,220	Black cherry .....	788
Sassafras .....	630	37	14,570	Laurel, California; Myrtle .....	784
Satinwood .....	2600	64	16,930	Parana-Pine .....	780

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## Continued from Previous Page (24)

Species List Alphabetically	Janka Rating (lb.)	Density (lb/cuft)	Rupture Strength (psi)	Species List by Hardness	Janka Rating (lb.)
Sepetir.....	1382	41	16,060	Keruing, Apitong.....	775
Serviceberry.....	1800	46	16,900	Sycamore, American.....	770
Shedua, Amazakoue.....	1650	52	17,750	Elm.....	769
Shorea.....	1780	52	25,400	Ilomba.....	749
Silverbell, Carolina.....	590	28	8,600	Larch, western.....	745
Snakewood.....	3800	81	20,930	Limba.....	731
Sourwood.....	1326	45	20,960	Chinkapin, giant.....	730
Spruce, black.....	422	29	9,405	Boxelder.....	720
Sucupira.....	2140	54	25,100	Embira-branca.....	669
Sweetgum.....	850	34	7,000	Fir, Douglas.....	660
Sycamore, American.....	770	34	10,000	Determa.....	657
Tallowwood.....	2007	55	21,970	Pine, spruce.....	647
Tamarack.....	526	34	10,750	Sassafras.....	630
Tamarind.....	2318	56	15,680	Cativo.....	625
Tarara.....	1860	44	18,600	Quaruba, Copaie.....	593
Tatajuba.....	2220	49	20,050	Alder, red.....	590
Tauari.....	1500	40	13,520	Silverbell, Carolina.....	590
Teak.....	1075	36	14,300	Cedar, yellow.....	580
Teak, Brazilian; Tatajuba.....	1038	39	14,740	Willow.....	568
Thuya, Thuja, Arar.....	1155	43		Hura.....	558
Tiete chestnut, Almendrillo.....	3540	62	25,100	Catalpa.....	550
Tiete rosewood.....	3280	53	15,830	Chestnut, American.....	540
Tigerwood, Muiracatiara.....	2620	55	16,620	Tamarack.....	526
Timborana.....	1570	57	19,700	Maminha-de-porca.....	523
Tornillo.....	2299	50	21,440	Butternut, Whate walnut.....	490
Tree-of-heaven, Ailanthus.....	1568	42	13,900	Hemlock, mountain.....	467
Tualang.....	1938	54	16,290	Cypress, Mexican.....	460
Tulipwood, Pau rosa.....	1441	35	18,650	Poplar.....	432
Tupelo, gum.....	861	35	9,690	Okoume, aboon.....	431
Turpentine.....	2624	58	18,620	Spruce, black.....	422
Verawood.....	4000	78		Aspen, bigtooth.....	420
Wallaba.....	1986	56	20,340	Obeche.....	408
Walnut, black.....	1010	34	14,650	Fir, white.....	407
Walnut, Brazilian.....	3680	35	22,380	Pine, lodgepole.....	402
Walnut, Mansonia; Imbuya.....	1290	35	12,250	Redwood.....	402
Walnut, tropical; T'zalam.....	1630	38	9,100	Cottonwood, eastern.....	377
Wenge.....	2235	54	22,020	Gumbo Limbo.....	370
Willow.....	568	25	8,150	Basswood, American.....	367
Witch hazel.....	1530	42	15,200	Jelutong.....	357
Yellowheart, Anan.....	1878	50	20,960	Buckeye, yellow.....	350
Yew, Pacific.....	1600	42	15,200	Aspen, quaking.....	337
Zebrawood.....	1658	47	21,340	Ceiba, Kapok.....	281
Ziricote.....	2200	53	15,700	Balsa.....	100

*John Tegelear*

*Project Name: Eagles  
Head  
Positive and Negative*

*Materials: Baltic Birch,  
Walnut*

*Finish Used: Danish  
Oil*



**MEMBER PROJECTS**  
**Photos Courtesy**  
**Neal Ray Shoger**



*Joe Kongs*

*Project: Mallet*

*Materials Used: Osage  
Orange, Mesquite,  
Honduras,  
Rosewood*

*Finish Used: None, Polished*

## ANNUAL MEMBERSHIP DUES CHANGES

**O**ur Guild continues to grow, currently we are at a total of 842 members – we saw 34 new members in the month of August.

As you may have heard, after eighteen years, changes are coming to KCWG membership dues structure. Due to the reasons laid out in the *President's Letter*, there will be an increase in dues, beginning in 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 annual increase for the Benefactor and Woodworker Plus membership levels, a \$20 annual increase for Sawdust Maker memberships, and there will be no change for Regular, Senior, and Student memberships where no shop privileges are extended.

We will continue to extend the 20% discount on Guild classes and merchandise for Woodworker Plus and Benefactor memberships.

We will continue the \$5.00 early renewal discount for membership renewals paid 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.

There is one more significant change – the member 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.***

**Wayne Peterson**  
Membership Director



## COMPREHENSIVE MEMBERSHIP ROSTER

**H**i Everyone,

I'm afraid that the Comprehensive Membership

Roster will no longer be available, online, through the Kansas City Woodworkers Guild website. It is our hope that this is a temporary measure brought on by the recent settlement the Guild came to with a former member.

If there is anyone you wish to find or contact, please message our Membership Director, Wayne Peterson, or the Assistant Membership Director, Joseph Greisen and they will happily retrieve the information for you.

Additionally, there will also be a physical copy of the comprehensive membership directory in the office at the Guild. Just ask any officer or foreman if you are not sure where to find it.

Thank you for your understanding and accept our apologies for the inconvenience.

**Roya Souag,**  
Director of Communications



## PROPOSED BYLAW CHANGES

### TO BE VOTED ON OCTOBER 17, 2018, AT THE MEMBERSHIP MEETING

#### Article III Members

##### 2. Annual Meeting.

2.1. An annual meeting of the Members shall be held for the purpose of electing directors and officers and for the transaction of such other business as may come before the meeting. Unless otherwise specified by the Board of Directors, the annual meeting shall be held on the third Wednesday in April of each year, at a time and place to be designated the Board of Directors. At the annual meeting, the President and Treasurer of the Guild shall report on the activities and financial condition of the Guild.

11.1. It shall be the policy of the Guild to provide transparency to the Members. Subject to Section 11.2 and 11.3, a Member is entitled to inspect and copy, at a reasonable time and reasonable location specified by the Guild, the minutes of all meetings of its Members and Board of Directors, a record of all actions taken by the Members or directors without a meeting, a record of all actions taken by committees of the Board of Directors, financial statements of the Guild and documents required to be maintained at the principal office

of the corporation pursuant to R.S.Mo. §355.821.5. In addition to such records maintained pursuant to R.S.Mo. §355.821.5, a Member may request and examine such other documents and records maintained by the Guild as such Member may request. All reasonable requests for such documents or records shall be granted; however, the Board reserves the right to deny or limit a request if it determines such request was brought in bad faith or requests confidential information. If any such request is denied or limited, the Board shall provide to such Member a written explanation within five days of such request an explanation for such denial or limitation.

#### Article IV Board of Directors

##### 1. Management

1.1. The affairs of the Guild shall be managed, supervised and controlled by a Board of Directors, consisting of five (5) persons. The Board of Directors shall include as director, one (1) Member-At-Large, who must have been an active and participating Member of the Guild for a minimum of five (5) years. Directors shall be elected by the Members in the manner specified in Article III hereof.

##### 2. Term and Election of Directors

2.1. The full term of office of directors shall be two years and until their successors shall have been elected and qualified. All directors may be elected for a second term with a maximum of two consecutive terms holding the same office, unless a quorum vote is taken by the membership to allow a director to continue in their position. To the extent practicable, no more than three-fifths of the directors will be replaced in the same year. Where a vacancy occurs in the Board of Directors by reason of resignation, such vacancy may be filled by appointment of the directors then in office. The term of such appointment shall last until the next Annual Meeting of the Members where such position shall be filled by affirmative vote of a majority of the Members for the remaining unexpired term. Where a vacancy occurs in the Board of Directors by reason of removal, it shall be filled by the affirmative vote of a majority of the Members at a meeting of the Members at which a quorum is present; provided however, that such meeting called for the purpose of electing the director,

Continued on Next Page (29)

**Continued from Previous Page (28)**

and the notice of such meeting shall state the purpose, or one of the purposes, of the meeting is the election of the director for the unexpired term.

**3. Removal and Resignation**

3.1. Any director may resign at any time by giving written notice to the Board of Directors, the President or the Secretary of the Guild; unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective. Any director may be removed, with or without cause, by the affirmative vote of a majority of the Members at a meeting of the Members at which a quorum is present; provided, however, that a director may be removed by the Members only at a meeting called for the purpose of removing the director, and the notice of such meeting shall state the purpose, or one of the purposes, of the meeting is removal of the director. Any such resignation or removal shall take effect at the time specified therein.

**4. Annual and Regular Meetings**

4.1. The annual meeting of the Board of Directors shall be held each year immediately following the annual meeting of the Members of the Guild, and shall be held for the purpose

transacting such business as may come before the meeting. The Board of Directors may provide by resolution for holding additional regular meetings of the Board of Directors at any time and place.

**ARTICLE V OFFICERS****1. Number and Election.**

1.1. Officers shall be elected by the Members at the Annual Meeting in the manner specified in Article III hereof and such officers shall consist of current Guild directors. The officers of the Guild shall be a President, a Vice President, a Secretary, and a Treasurer. The Board of Directors may also elect an Assistant Secretary and Assistant Treasurer. The full term of officer positions shall be two years and until their successors shall have been elected and qualified. All officers may be elected for a second term with a maximum of two consecutive terms holding the same office, unless a quorum vote is taken by the membership to allow an officer to continue in their position. Where a vacancy occurs in an office by reason of resignation, such vacancy may be filled by appointment of the directors then in office. The term of such appointment shall last until the next Annual Meeting of the Members where such position shall be filled by affirmative vote

of a majority of the Members for the remaining unexpired term. Where a vacancy occurs in an office by reason of removal, it shall be filled by the affirmative vote of a majority of the Members at a meeting of the Members at which a quorum is present; provided however, that such meeting called for the purpose of electing the officer, and the notice of such meeting shall state the purpose, or one of the purposes, of the meeting is the election of the officer for the unexpired term.

**7. Removal and Resignation.**

7.1. Any officer may resign at any time by giving written notice to the Board of Directors, the President or the Secretary of the Guild; unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective. Any officer may be removed, with or without cause, by the affirmative vote of a majority of the Members at a meeting of the Members at which a quorum is present; provided, however, that an officer may be removed by the Members only at a meeting called for the purpose of removing the officer, and the notice of such meeting shall state the purpose, or one of the purposes, of the meeting is removal of the officer. Any such resignation or removal shall take effect at the time specified therein.

# OCTOBER 2018 OPEN SHOP SCHEDULE

day	October	Date	9am	10	11	12	1	2	3	4	5	6	7	8	9pm	
Monday	October	1						Ron Haw					Gary Strohm			
Tuesday	October	2	Gary Creek			Craig Arnold							Kara Paris			
Wednesday	October	3	Roger Bartlett				Roland Mohler		Scott Engelmann 3:30			LC Meeting				
Thursday	October	4	Gary Mielke									Basic Woodworking				
Friday	October	5										Andrew Carr				
Saturday	October	6	Mike Jones					Basic Skills Class		George Rexroad						
Sunday	October	7		Chuck Saunders					Chris McCauley							
Monday	October	8	John Johnson				Ron Haw					Woodturners General Meeting				
Tuesday	October	9	Matt Nowak			Ron Lomax			Craig Arnold			Rick Chandler	Safety Comm Mtg			
Wednesday	October	10	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30			Scrollsaw SIG				
Thursday	October	11	Gary Mielke									Basic Woodworking				
Friday	October	12										Bill Lintner				
Saturday	October	13	Dave Kraatz	Building Wooden Toys I				Norm Carpenter								
Sunday	October	14		Rob Young					Mark Waugh	Powertool SIG						
Monday	October	15						Ron Haw				Gary Strohm				
Tuesday	October	16	Gary Creek			Craig Arnold										
Wednesday	October	17	Roger Bartlett									General Meeting				
Thursday	October	18	Gary Mielke									Basic Woodworking				
Friday	October	19						Mike McCauley				Marselle Bredemeyer				
Saturday	October	20	Dave Kraatz	Scroll Saw Class Thanksgiving Themed						George Rexroad	Safety Orientation					
Sunday	October	21		Chuck Saunders					Chris McCauley							
Monday	October	22						Ron Haw								
Tuesday	October	23	Matt Nowak			Ron Lomax			Craig Arnold			Rick Chandler	Carving SIG			
Wednesday	October	24	Bob Caldwell			Roland Mohler			Scott Engelmann 3:30			Kevin Thomas	CNC SIG			
Thursday	October	25	Gary Mielke									Basic Woodworking				
Friday	October	26										Bill Lintner				
Saturday	October	27	Dave Kraatz													
Sunday	October	28		Rob Young				Handtool SIG	Wayne Peterson							
Monday	October	29						Ron Haw								
Tuesday	October	30	Gary Creek			Craig Arnold						Rick Chandler				
Wednesday	October	31	Roger Bartlett				Roland Mohler		Scott Engelmann 3:30							

# KCWG TENTATIVE - NOVEMBER OPEN SHOP SCHEDULE

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									Basic Woodworking			
Friday	November	9										Bill Lintner			
Saturday	November	10	Dave Kraatz				Norm Carpenter								
Sunday	November	11		Rob Young						Mark Waugh					
Monday	November	12	John Johnson				Ron Haw					Woodturners General Meeting			
Tuesday	November	13	Matt Nowak			Ron Lomax			Craig Arnold			Rick Chandler		Safety Comm Mtg	
Wednesday	November	14	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30			Scrollsaw SIG			
Thursday	November	15	Gary Mielke									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						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										Bill Lintner			
Saturday	November	24	Dave Kraatz									Scrollsaw Christmas Ornament			
Sunday	November	25		Rob Young				Handtool SIG		Wayne Peterson					
Monday	November	26						Ron Haw							
Tuesday	November	27	Matt Nowak			Ron Lomax			Craig Arnold			Rick Chandler		Carving SIG	
Wednesday	November	28	Bob Caldwell				Roland Mohler		Scott Engelmann 3:30			Kevin Thomas		CNC SIG	
Thursday	November	29	Gary Mielke									Basic Woodworking			
Friday	November	30										Andrew Carr			

**NEXT  
MEMBERSHIP  
MEETING IS  
SCHEDULED  
FOR  
OCTOBER 17  
AT 7:00PM**

**LEADERSHIP COMMITTEE MEMBERS**

- President:..... Craig Arnold ..... [president@kcwoodworkersguild.org](mailto:president@kcwoodworkersguild.org)
- Vice-President:..... Cal Hobbs ..... [vicepresident@kcwoodworkersguild.org](mailto:vicepresident@kcwoodworkersguild.org)
- Secretary: ..... Sharon Pugh ..... [secretary@kcwoodworkersguild.org](mailto:secretary@kcwoodworkersguild.org)
- Treasurer: ..... Gary Mielke ..... [treasurer@kcwoodworkersguild.org](mailto:treasurer@kcwoodworkersguild.org)
- Member-at-Large: ..... Tim Locke ..... [memberatlarge@kcwoodworkersguild.org](mailto:memberatlarge@kcwoodworkersguild.org)
- Director of Events:..... Alex Scott..... [events@kcwoodworkersguild.org](mailto:events@kcwoodworkersguild.org)
- Director of Membership:..... Wayne Peterson..... [membership@kcwoodworkersguild.org](mailto:membership@kcwoodworkersguild.org)
- Director of Communication:.. Roya Souag ..... [communication@kcwoodworkersguild.org](mailto:communication@kcwoodworkersguild.org)
- Director of Sponsorship:..... Denny Walton..... [sponsorship@kcwoodworkersguild.org](mailto:sponsorship@kcwoodworkersguild.org)
- Director of Training: ..... Norm Carpenter..... [training@kcwoodworkersguild.org](mailto:training@kcwoodworkersguild.org)
- 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)
- 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)

**VISIT THE KANSAS CITY WOODWORKERS GUILD  
ONLINE AT  
[www.kcwoodworkersguild.org](http://www.kcwoodworkersguild.org)**

**Visit the  
Kansas City Woodworkers  
Guild at  
3189 Mercier Street  
Kansas City, Missouri**

