



MICHIGAN WOODWORKER

michiganwoodworkersguild.com



Michigan Woodworkers' Guild (est. 1981) August 2020 Vol. 41 No. 8

When / Where:

SUNDAY, SEPT 13, 2020

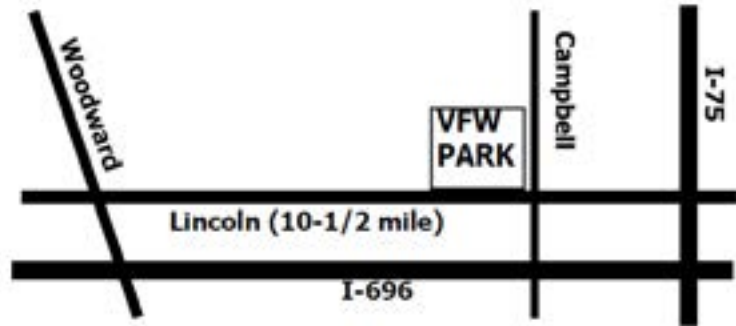
(At the VFW Park, Royal Oak, MI starts at 11:59 pm)

ANNUAL PICNIC - (PAID FOR SHINE)

SWAP MEET STARTS AT NOON

FOOD AT 12:59 PM - DRAWINGS AT 1:59 PM

The Guild luncheon will be held at the George's Senate Coney Island on **August 27th** at 1:16 pm (see map on page 12)



MAP TO VFW PARK - ROYAL OAK, MI



Since our last seminar event which involved Tom McLaughlin giving us an in-depth demonstration to make a double mortis and tendon writing table, the Guild has experienced various life events. Read below to get the latest updates involving many members as well as their various projects.

CALENDAR OF EVENTS

Annual MWG Picnic Aug. 9th
Bring a dish to Pass Guild to supply chicken, hot dogs, pop, water, hors d'oeuvres
Swap Meet starts at **12:59 PM**
(Great chance to trade /buy woodworking STUFF)

This monthly luncheon will be at George's Coney Island on **August 27th** at 1:16 pm

Local Artisan **Jim Eischeid** will demonstrate his Wooden Art at our **Sept. 13th** meeting at the **LIVONIA SENIOR CENTER**.

The monthly luncheon will be at George's Coney Island on the **September 24th** at 1:16 pm

Professional Woodworker, **Will Stanford** will discuss the Ins and Outs of making Woodworking a career at our **Oct. 11th** meeting at the **LIVONIA SENIOR CENTER**

The monthly luncheon will be at George's Coney Island on the **October 22nd** at 1:16 pm

Manufacturer's representatives from across the Detroit Metropolitan area will showcase their latest and most innovative tools at our **Nov. 8** meeting at Livonia Senior Center.

The monthly luncheon will be at George's Coney Island on the **November 19th** at 1:16 pm



President's Corner

By Jerry Romito



When the Corona virus came to our attention early this year, probably few people could imagine the impact it was going to have on our lives, or for how long we would be impacted. But it is still with us, and may continue for months to come or longer. Since, as you know, our MWG membership is largely made up of those who are considered “high risk,” and given everyone’s health and safety is our top priority, the Board of Directors is continuing to make the tough decisions to cancel our in-person events. The August annual picnic has been cancelled; we will not have our normal in-person September or October meetings. However, we are planning to replace those meetings with live remote Zoom presentations, which will be available to all members with internet access. More information on those meetings will be coming later. Please understand that we are making these changes for everyone’s safety and we encourage you to keep following all the published safety guidelines.

Our first foray into remote presentations was our July private MWG free live remote seminar with craftsman/instructor Tom McLaughlin. You can read all the details about it in Dale Ausherman’s excellent review in this newsletter. You can also watch the entire 3-1/2 hour seminar again (it has been recorded) by using the special link, which I will provide to you (if you didn’t save it from my invitation email) when you contact me at gjromito@aol.com. The seminar was viewed live by 40 members and it now has a total of 140 views. It is nice to see that our membership has taken advantage of this opportunity. Hopefully we will be offering similar opportunities in the future.

Since we wish to keep our membership communication as active as possible in the absence of live meetings, we want you to take advantage of our monthly newsletter and our website. The newsletter is now edited by Dave McCagg. You will see in this issue

that he is asking for member input on projects, questions, advertisements, want ads, for sale, etc. Please take advantage of this to help make it more useful for you.

In addition, don’t forget about our website at www.michiganwoodworkersguild.com. It contains a lot of MWG archival information, including an extensive photo album and newsletter file. It does, however, have some elements that aren’t working properly which need repair. Unfortunately, we do not have a current webmaster. All of our past webmasters (who now are all Board members) are not active with websites anymore. Therefore we are in need of a new webmaster and are calling out to the general membership for a volunteer who has the skills, or at least the contacts, for a trusted professional webmaster. If you have any interest, questions, or information, please contact me at gjromito@aol.com.

I discussed in my column in the May newsletter about using the internet to search out the treasure trove of information on woodworking and listed several sites that I recommended. This seems ever more relevant since most of us are spending much more time at home. Even my few suggestions might have seemed overwhelming, so here I want to give you a little more detail on just one of them – www.epicwoodworking.com - the home of Tom McLaughlin, the craftsman/instructor who gave us our live remote seminar. Some of you knew of him already and many more know of him now. I encourage everyone to take a close look at his website to get a glimpse of the wealth of woodworking instruction he provides via his free video content.

Once you get to his website, there are a lot of places to navigate to find content. Let me give you a few tips to get the idea. First I suggest that you scroll about half way down to the link “Passing On the Craft” to see a short video describing Tom and his story. Then go back to the top to the dropdown titled “Experiencing Woodworking”. At the dropdown arrow select “Videos.” Here you will see a list of over 60 free instructional videos. The first 39 are from his “Shop Night Live” series (every Thursday night). Many of them are 1-2 hours long each on specific




woodworking techniques while many are grouped together for a 10-12 hour complete project build. For example, episodes 1-12 cover individual topics such as chisels, planes, veneers, tapered legs, etc., while episodes 13-24 cover the complete design and build of a modern table. The others are just too numerous to mention, so you need to browse the list. For more videos, go back to the "Experiencing Woodworking" title and select "Online Courses." There you will see a list of online project build courses of 6-7 episodes each many of which are free. Back on the main web page you will see a link to the current Thursday night "Shop Night Live" series.

That's enough for now, and I just encourage you to explore the Epic website as well as some of the others that I mentioned in May. If you know of other sites that you particularly like, let me know at gjromito@aol.com and I will share them with the MWG.


So stay safe and we can look forward to the day when we can be together again.

Jerry Romito





MEETING REVIEW



By Dale Ausherman

MWG Meeting Review
Streaming Tom McLaughlin
Constructing a Walnut and Maple Table
Live Streaming – 13 June 2020

Due to the Coronavirus "lockdown" the Guild has cancelled several in-person events. Exploring ways to continue member's need for instruction and social interaction, President and Programs Chairman Jerry Romito and Officer at Large Ragnar Bergethon explored Ragnar's connections with nationally famous furniture craftsman Tom McLaughlin to enable a free live remote woodworking seminar for Guild members only. Hosted on the Epic Woodworking YouTube channel, the program addressed construction and finish of a Walnut writing table with Curly Maple floating top. Tom demonstrated design, drawing, patterns, joinery, shaping, detailing and assembly. He was assisted in the camera work and chat by his wife Kris. Members could attend via any device with an internet connection. As a special feature for MWG, Epic recorded our seminar and will keep it active indefinitely, so you can view it again at will, using the private link provided only to members in Jerry's Reminder email. (Jerry Romito email to members, Subject: MWG Remote Live Seminar Reminder, sent 11June2020.) We ask that you not share the link outside of the MWG. During the live seminar "attendees" were able to comment and ask questions via "chat." Screen data showed we had a little under 40 members online and watching during the seminar.





Tom McLaughlin is quite accomplished as a woodworker and instructor. Jerry gave an excellent review of Tom's credentials in the June Guild Newsletter. A key event for Tom's career was entering a rare apprenticeship with master craftsman P.A. "Pug" Moore in Rocky Mount, North Carolina. Tom remained close to Pug, even after branching out on his own, which included returning to his native New England roots where he's been making furniture since 1997. Tom is currently host of public television's *Rough Cut with Fine Woodworking*, is a member and former Chairman of the New Hampshire Furniture Masters since 1998. He has been featured in articles in numerous newspapers, magazines, and woodworking journals, including recent articles in *Fine Woodworking*. More on his career, project plans, and class offerings can be found at his website:

<https://www.epicwoodworking.com/>



Tom showed his design process for the table by displaying simple Shaker examples to start, and then refining the design by thinning the edges of key elements, adding compound curves to the legs ("double sweep"), using a floating top, and planning for use of contrasting woods for apron inserts (or alternatively drawer fronts) and the top. He showed a Duncan Phyfe chair reconstruction to show how twin mortise and tenons can be productively used for strong joining of thin elements such as attaching the thin front apron rails to the legs. This is because single tenons in these locations would consist mainly of end grain surfaces, creating a relatively weak joint. Tom's plan

for the table uses multiple instances of identically-dimensioned twin mortise and tenon joints.

From the nearby photo (also shown in Jerry's Re-



note Seminar Reminder Note) one can see the basic design of the table. There are four legs connected by front and back aprons, and two side aprons. But each apron is made of two "rails," an upper and lower connected by short vertical spacers. The long front and back aprons have four such spacers which serve as dividers for two drawer fronts (or filler panels which look like drawers) and three open spaces. Each side apron has two short vertical spacers to form a space for a panel and two end openings. This is a total of 40 twin mortise and tenon joints, which implies cutting of 80 mortises and 80 tenons, all carefully aligned with each other! Hence the need for efficiency in marking and making these.

In this nearly four hour video, Tom showed many methods and tools to build this beautiful table, too many to review in the space of this article. Fortunately members can view the seminar at their leisure at any time using the link found in Jerry's email. For me, I feel the most important element of the seminar was how a key design decision, accompanied by clever use of spacers with a mortising machine and table saw tenon jig, reduces the making of these 80 precision mortises and tenons to a VERY simple and repeatable process. This is possible due to Tom's clever design, wherein nearly every joint making up the elegant table is an identical twin M&T joint, ALL 40 of them! The only exceptions are the joints for the four front-to-back drawer dividers, which are simple tongue as well as groove joints into the front and back short vertical dividers. These pieces also serve to attach the floating table top.

Tom starts a project by making sketches of the overall piece, trying various dimensions and features. Once he has a satisfactory sketch he proceeds to make a 1:8 scale drawing, using an architect's scale. Then he makes a full size plan with an elevation, plan, and side view, using long straight edges. (The seminar showed mainly the elevation view.) For the various curves (in this case the leg profiles, he uses stacked double strips of 1/8 in. Masonite to make a flexible curve which can then be shaped by holding finger pressure or small clamps. For compound curves this takes two hands to fit a given shape, so if Tom is lacking an assistant he has a long pencil holder held in the mouth to make the actual pencil marks against the guiding curve.

On the full size plans all joinery marking for the legs is referenced from the inside edges of all components. And so all machine set ups also are referenced to the inside surfaces. Tom always made little chalk triangle markings on the components, with top of triangle pointing vertical and drawn on an externally viewed surface, while reference surfaces are marked with a chalk like. These temporary markings minimize set up and cutting mistakes in practice.

To get from "drawing to sawing" he makes templates



for the curved parts, especially for curved parts which have multiple copies, in this case for the four legs with curved interior sides. He makes the templates from 1/4 in. MDF or gap-free Baltic birch plywood. He lays the drawing over the MDF blank and makes awl pricks along the desired line. He then uses straight edges and the long flexible MDF curves to draw the actual shape lines on the template blanks.

Tom then bandsaws the templates, and makes the edges smooth using a block plane (straight and convex edges) or a spoke shave (concave edges). He gave us a tip for band sawing smoothly close to a line

by slightly turning the piece in the kerf and applying slight side pressure to use the back edge of the saw blade as a guide of sorts. (In a prior MWG workshop Michael Fortune recommended this same approach, with the addition of band sawing with only one hand at a time to best keep the angle and pressure correct for this technique, i.e. keep the other hand behind your back! I have learned that this technique works VERY well after some practice.) This same band saw process is also later used to shape the curved legs after the leg mortises are cut.

Tom started cutting the project pieces with the four identical legs. He cut the four identical rectangular leg blanks on the table saw. He then drew the leg curves on the appropriate two adjacent sides, paying attention to grain direction in selecting the inside edges to avoid as much as possible weak cross grain in the resulting curved legs. The leg curve is drawn on adjacent inside sides of the leg. Wise selection of "inside" can allow the elimination or minimization of sapwood which might be present in the leg blank, by placing the sapwood in the part of each leg to be discarded. Important: BEFORE cutting these marked curves, one should cut the leg joinery mortises while the legs are still rectangular with straight sides to reference in the mortise machine or on the table saw.

Each leg gets four sets of twin mortises, two sets



for each inside edge meeting a table side apron with its two narrow rails. Each front and back apron gets eight twins, four for each narrow top and bottom rail. And the side aprons get four each, two for each of the respective narrow rails. Tom marks these 40 twin mortise locations roughly with chalk to help avoid marking errors when the precise locations are scribed. Tom made a special jig to help mark the latitudinal locations of each twin mortise, the marking being done with a marking knife for precision loca-

tion. One should view the video to see how he efficiently marks the locations of the mortises in both legs and apron rails.

Cutting Mortises: Tom cuts the mortises on a mortis-



ing machine using a $\frac{1}{4}$ in. bit. Each twin mortise is identical, $\frac{1}{4}$ in. by $\frac{3}{4}$ in mortises spaced $\frac{1}{4}$ in. apart, with the first mortise spaced $\frac{5}{16}$ in. away from the inside reference surface in all instances. Thus Tom can set up the mortise machine with the proper reference surface offset of $\frac{5}{16}$, cut the first mortise, and then insert a $\frac{1}{2}$ spacer board to move the piece outward to cut the second twin mortise. The $\frac{1}{2}$ in. spacing results in the mortises being spaced with $\frac{1}{4}$ in. in between, accounting for the width of the mortise bit. The ends of each mortise have already been marked by knife as previously described and shown in the video. The depth of ALL mortises is made to be $\frac{9}{16}$ in. to accommodate the $\frac{1}{2}$ in. long tenons with some space for glue squeeze. The depth stop on the machine must be set separately for the apron rails vs the legs, due to the different thicknesses of the two types of stock. To make this quick and easy, Tom has a $\frac{9}{16}$ spacer block used to set the machine depth stop, after registering the bit on the surface of the stock being mortised.

Cutting Tenons: Tom cuts all of the tenons on the ta-



ble saw using a shop made jig with appropriate spacers for efficiency. He provides a free video on making this jig: Making a Tenon Jig for the Table Saw with Tom McLaughlin:

www.youtube.com/watch?v=SUkSoYexT3U&feature=share.

He uses two spacer blocks, one the same $\frac{1}{2}$ in. block



used on the mortising step, and a second to offset the tenon width, or $\frac{3}{8}$ in. = $\frac{1}{4}$ in. width plus $\frac{1}{8}$ in. to account for the saw kerf width. There are four table saw cuts to be made for each twin tenon, one for each of the tenon cheeks. These four cuts are made in a specific order (I don't think order matters?): one cut with no spacer, one cut with $\frac{3}{8}$ in. spacer only, one cut with $\frac{1}{2}$ in. spacer only, and one cut with both $\frac{3}{8}$ in. and $\frac{1}{2}$ in. spacers together. He points out that any slight error in making the $\frac{1}{2}$ in. spacer for the mortising machine corrects for itself in cutting the tenons as the slight difference is transferred to the tenon spacing as well. For the $\frac{3}{8}$ in. spacer he adds thin pieces of tape to micro adjust the resulting tenon thickness to exactly match the tenons cut previously on the mortising machine. He then cuts the outside shoulders of the twin tenons on the tables saw, then trims the interior shoulder using alignment scribe marks and a $\frac{1}{4}$ in. chisel.





Prior to assembly Tom double checks the width of each mortise, (in this case 3/4 in.), using a thin test tenon cut from the same apron stock, adjusting each with a 1/4 in. chisel as necessary. (The width of each mortise cut on the machine can have errors as the mortising bit is aligned only by eyesight to the mortise scribe lines.)



After completing the mortises in the legs, he then bandsaws and makes smooth the curves on the legs. (See the video.) He then slightly “pillows” or rounds the four leg sides, using block planes, spoke shaves and fine files. This is to create a softer look to the table surfaces. He also pillows the front sides of the apron rails and dividers on a router table using a slight radius round over bit, and a special feather board product called a Hedgehog, which works especially well and safely for the short pieces:

www.amazon.com/Hedgehog-Spiral-Featherboard-Router-Tables/dp/B078L82HLT.

Assembly is then straight forward, except that the in-



side adjoining tenon in each apron rail where it meets the leg must be mitered, as they must share space interior to the legs when assembled. Please view the video for appropriate order of parts assembly. As part of this segment he provides more details on the front/back drawer guides which double as the top mounts, and offers brief design suggestions for the top and

shaping of the legs as they protrude vertically beyond the top surface.

Tom also provided brief comments on finishing, recommending an amber shellac for the bottom/frame parts, and a wax free shellac for the floating top, with an additional coat of catalyzed lacquer or varnish. He also suggested the New Hampshire Furniture Masters website for additional finishing information.



(<https://furnituremasters.org/>.)

We must thank Jerry Romito and Ragnar Bergethon for arranging this amazing streaming video. What a super way to fill in our educational schedule while we are all still largely locked down due to the virus pandemic. And it is clear that Tom McLaughlin and his website is a wonderful resource which likely will serve MWG again going forward.

- Dale Ausherman





In Memoriam:



Editor's Note:

We lost a friend to the Global Pandemic. A truly great friend. Please say a long prayer for Mike Holden and keep Becky in our thoughts as she goes through this terrible time. Below are comments celebrating Mike's contributions as a woodworker. We can be rest assured knowing that Mike is now above us making mountains of sawdust.

From Dale Ausherman:

We are very sad to announce that Michael (Mike) Holden passed away on Monday, June 22, 2020. Mike passed due to the COVID-19 illness. Many of you knew Mike, as he was an active member of the Guild for well over a decade, an Officer at Large for at least 10 years, and a regular contributor to our annual Showcase of Skills. He was the most knowledgeable person across all subjects many of us knew, as well as a superb craftsman willing to share his understanding and methods. He also actively supported the Society of American Period Furniture Makers (SAPFM) and leader of their Great Lakes Chapter for several years, as well as serving on the SAPFM Board.

In his passionate support of Guild meetings Mike always asked the important questions and helped us all with his shared knowledge. His long term sup-

port of MWG and friendship to us all will be greatly missed but never forgotten.

Additional information can be found at www.dignitymemorial.com/obituaries/clinton-township-mi/michael-holden-9231507. A memorial visitation will be scheduled once COVID-19 mandates have been lifted.



Editor's Note:

During this pandemic time, MWG members continue to build various projects. Below are some fine workmanship examples from our guild members.

Tom Duke has created some spectacular chests from Curly/birds eye maple and Black Walnut. He describes the projects with these words:



I purchased these very wide maple boards nearly 25 years ago from Armstrong Mill works. Some years after, I moved and packed up my shop for ten + years. I got reset up a couple years ago and finally got to them.

I like to build these as gifts for family, so this may have a new home soon. All joinery was by hand, and seeing that I can only get in my shop after work and just some weekends, these trunks take about six weeks to knock out.

The hardware is from Horton Brass. The owner,



Orion, has his blacksmith build the hardware to my designs, and Orion now offers them in his catalog as standard items. He is great to work with and I recommend Horton highly. The hardware is gorgeous and really adds to the piece. I don't enjoy finishing, and don't care to learn. I would rather build. So I take my pieces to Steve Blatchford at Mr. Furniture Finisher in Farmington Hills. I show Steve what I envision and he gives it back professionally done. I have known Steve for decades and he always exceeds my expectations. The curly birch also came from Armstrong, and boy is it hard! My wife wants to keep this one, so it is staying put. All joinery is by hand, and the hardware from Horton Brass. I love the dark iron against the wood colors. Steve did the finish with multiple layers of stain, sanding, and re-staining to make it pop.



I did the butternut chest for my son for Christmas. Trevor's initials are on the front. Wood and hardware from Armstrong and Horton, finish by Steve. The butternut was a pleasure to work with. This piece was simply a copy of an old tool chest I found on line, which I scaled to suit my taste.



Thomas A. Duke

To store his many natural remedies **Tom Leib**, a naturopath, designed an Herb cabinet. He details the project below:

Besides fixing things around mine and my parent's house I haven't had the time to do any woodworking in quite a few years. I had a need to come up with a way to organize and store the many natural remedies I use as a naturopath so I came up with the idea to build a cabinet with multiple drawers where I could categorize and store the remedies in an organized method where they would be easy to retrieve.



The cabinet is primarily made from birch that I admittedly bought mostly pre-sized at Menards. I am sure that I paid more for this convenience, but it was worth it in the long run as most of my projects drag out over months and for this one I did not know how long I would be away from the office due to the virus, so I needed to make good progress quickly. I used a variety of joining methods in assembling the project. I have always been fond of biscuits for their simplicity, strength and they are somewhat helpful with keeping boards aligned. I used biscuits wherever I could but primarily to hold the case together. The side panels and drawer bottoms are free floating in grooves sandwiched between the rails. For the drawers I made tongues that insert into grooves to give more surface area for gluing. The drawers have a dado in each side that ride on a rail that was mechanically fastened to the sides with wood screws. I also had a need to use dowels to fasten one cross brace due to it being too small for a biscuit. I am sure there would have been other joinery options and if I would



MARSH POWER TOOLS
SALES AND AUTHORIZED FACTORY SERVICE

20579 Middlebelt Livonia, MI 48152 (248) 476-7744	7187 Grand River Ave. Brighton, MI 48114 (810) 220-1122
Fax: (248) 476-1090	



have had the time I could have done some more intricate joinery. Maybe when I retire....

For the top of the cabinet I used a piece of walnut that I had stored. I had this piece earmarked for a craft project that never got started,

I thought that the contrast to the birch looked nice and I already had the piece so I was happy to use it for the top.

For the finish I coated all the pieces with sanding sealer and Varathane semi-gloss varnish. I prefer the patina that Varathane gives over the waterborne finishes. Also, the slower dry time seems to be more forgiving although dust has more time to accumulate.

Long time woodworker and MWG member, *Larry Last*, has been busy making step stools as well as Ben Franklin writing desks. In the illustrations below, Larry includes plans for the step stool!



Here are two fun little projects to try.

1) A version of the shaker step stool:

I have made quite a few of these. They are popular for getting to that item on the top shelf. Since mine are 18 inches high they are also a good temporary chair.

This one is Cherry and is a requested wedding gift, others have been Walnut, pine, old barn wood, and

Oak. Pine ones are for the garage but since they are very light some older people request this material.

Notice the dovetailed back stretcher for strength.



2) Ben Franklin writing desk:

I have made these for the grandchildren ages 1 to 8 and they are very popular

The kids like to store things in them and can color and write on them anywhere.

These are simple to make and quite fun for the builder as well as the recipient.

On the step stool I have used all types of joinery.

Our very own MWG President, *Jerry Romito*, has built projects to enhance his shop as well as the church. He showcases his work with the following comments:

Attached are pictures of two projects I've done recently.

1. Collection box for church.

2. Extension table for my Rikon 14" band saw.





**GLENN WING
POWER TOOLS**

33656 Woodward Ave.
Birmingham, MI 48009
(248) 644-0144
(248) 644-5790 Fax
(800) 821-5177 (US)
(800) 448-1572 (MI)

Jeff Wilmot



MEMBER NOTES / ASKS



Richard Heibert built a very special project to honor a seminarian who recently became ordained a priest. Richard describes it with the following:

Attached are pictures of the latest project I have completed. It was a box made to hold a chalice that we gave to a seminarian who was ordained a priest, June 6th of this year.

The box sides and bottom are made of Oak, with a Walnut top inlayed with a banding made from Ebony



and Holly. The dividers in the inside of the box are removable and a made from walnut. I used Tried & True original wood finish, non toxic Polyarized linseed oil & beeswax for the outside of the box. Inside I used good old fashion shellac.

I had the laser work done by MrLaserHead.com, info@mrlaserhead.com. Very reasonable.

MWG Favorite Resources:

Long time member, Tom Duke, has suggested that the Michigan Woodworker's Guild construct a listing of local and national vendors / resources which we have found to be exceptional. He believes that there are enough members who if only half of them contributed a couple of sites each, the list would be quite substantially useful. The listing would be shared with all on the website and could be lumber/ wood sources, used machinery, tool restorers, finishers, hardware, instructors/ classes, etc.

Let's make Tom's suggestion a reality. Please send Dave McCagg (email: D2MCCAGG@provide.net) with your favorite vendor or resource including their name and contact information. Over the next few months, this information will be compiled into a file which can be uploaded onto the Guild's website.

Wood Drying Request:

Mike Possley from Possley Builders llc, a renowned and well respected home builder in the Dexter / Chelsea area is seeking someone to help him dry some recently slabbed wood. He writes:

"Good morning, I was wondering if anyone in the guild might know a local place you could take slabs of wood to have them kiln dried?

We live in the Chelsea/Dexter area.

We took down several good trees to do an addition and will be milling them into slabs. However we don't have the space to store them to allow them to dry out over time."

Please contact Mike at: mike@possleybuilders.com



\$149⁹⁹

ROCKLER® PORTABLE DRILL GUIDE

- The precision of a drill press with the portability of a hand drill
- Smooth ball bearings and hefty 1/2" chuck with depth stop
- Angle drilling from 0° to 60°

SKU: 52885



\$99⁹⁹

ROCKLER® SELF-CENTERING DRILL VISE

- Centers stock up to 3" x 3" for drilling—perfect for pen blanks
- Attach to our optional Portable Drill Guide to drill pieces of unlimited length

SKU: 50916

SAVE \$29.99 WHEN YOU BUY BOTH! Reg. \$219.99 Online: 63057



CUSTOMER FAVORITES SALE PRICING VALID 7/31-8/27/20

26160 Ingersol Drive • Novi, MI 48375 • (248) 543-5110 • Rockler.com

Store Hours: Please call store for current hours.

For membership information contact

Dave McCagg at: d2mccagg@provide.net

For name tags, sign up with Ed Stuckey at a regular meeting.

Executive Board Members

Jerry Romito.....	President.....	248-475-5976
Tom Rowley	Vice-President	248-895-1597
Ed Stuckey.....	Treasurer.....	313-345-3671
Don Hess.....	Secretary.....	734-207-8427
Tony Gigliotti	Officer at Large	248-853-8349
Ron Ross.....	Officer at Large.....	734-812-5531
Rich Herbert.....	Officer at Large.....	248-628-0644
Bill Gayde.....	Officer at Large.....	248-859-3949
Ragnar Bergethon....	Officer at Large.....	248-608-8436
Pete Goddard.....	Officer at Large.....	248-828-3038
Dave Hinkle.....	Officer at Large.....	734-513-6836

STANDING COMMITTEE CHAIRS

Jule Ann Clough....	Library.....	248-977-4131
Dave McCagg.....	Newsletter Editor.....	734-482-6764
Dave McCagg.....	Membership.....	734-482-6764
Jerry Romito.....	Programs.....	248-475-5976
Ken Wolf.....	Toy Project.....	734-981-3423
Bill Rigstad.....	Special Projects.....	734-459-3374
Dave Hinkle.....	Web Site.....	734-513-6836
Bob Mills.....	Mentoring.....	248-540-8658
Fred Ball.....	Web Site Calendar.....	248-681-3108

