



# Michigan Woodworker

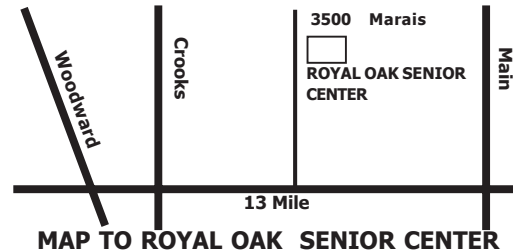
[www.miwoodguild.webs.com](http://www.miwoodguild.webs.com)



**Michigan Woodworker's Guild (Est. 1981)**

**Sunday, September 11, 2016  
2:00 - 4:30 PM - At The Royal Oak -  
Senior Center. Wood Gluing with  
Bob Behnke**

The September luncheon will be held at Jimi's in Royal Oak on Thursday the 22nd beginning at 1:15 PM



## Upcoming Events

Month	Meeting Date	Topic	Speaker	Location	Luncheon Date
<b>Sept. 2016</b>	Sunday 11 <sup>th</sup> 2:00 – 4:30	Wood Gluing	Bob Behnke	Royal Oak Senior Center	Thursday, 22
<b>October 2016</b>	Saturday 8 <sup>th</sup> 10:00 – 4:30	Woodworking Magazine	Jim Heavy	Tech Shop in Allen Park	Thursday, 27
<b>Nov. 2016</b>	Sunday 13 <sup>th</sup> 2:00 – 4:30	Violin Woodmaking	Peter Psarianos	Royal Oak Senior Center	Thursday, 17 <sup>th</sup> If Facility Available
<b>Dec. 2016</b>	Sunday 11 <sup>th</sup>	Christmas Meeting & Orphan Train	Al Eicher	Livonia Senior Center	Thursday, 15 <sup>th</sup> If Facility Available
<b>January 2017</b>	Saturday 7 <sup>th</sup> 10:00 – 4:30	Joinery and Finishing	Marc Adams	Tech Shop in Allen Park	Thursday 26
<b>Feb. 2017</b>	Sunday 12 <sup>th</sup> 2:00 – 4:30	<Under Construction>	Kyle Huntoon	Tech Shop in Allen Park	Thursday, 23
<b>March 2017</b>	Saturday 11 <sup>th</sup> 12:00 – 4:30	Showcase Of Skills	Guild Members	Livonia Senior Center	Thursday, 23
<b>April 2017</b>	Sunday 8 <sup>th</sup> 2:00 – 4:30	Jigs and Fixtures	Guild Members	Royal Oak Senior Center	Thursday, 27th
<b>Notes</b>	All luncheons are held at Jimi's in Royal Oak at 1:15 PM				

**The President's Corner****By Dr. Gary Assarian**

We have a number of items to share with the membership including some exciting news regarding Rockler and MWG membership drive.

August is the time of the MWG picnic and the event this year was deemed a big success. Attendance was up and attendees report that it was a great venue.

Our fall guild schedule includes a number of highlights.

September

**Sunday, Sept 11 2PM - 4:30PM**

**All About Adhesives with Bob Behnke** from Franklin Products

Site: Royal Oak Senior Center 2-4:30PM

October

**Saturday, Oct 8 All Day Workshop With**

**Woodworking Magazine's Jim Heavy**

Site :Techshop , Allen Park 9-4:30

November

**Sunday, Nov 13**

**Violin Woodmaking with Peter Psarianos**

Site :Royal Oak Senior Center 2-4:30PM

Mark your calendars they all should be great programs.

I have also visited the new Rockler store in Novi. It is large, bright and filled with more inventory than the Royal Oak store. In addition it has a small amphitheater which seats 40. It will be used for demos etc.. After much discussion, Scott Rieman, the manager, and the MWG have agreed to have a joint woodworking and membership/demo event September 24. It will include 6 hours of woodworking demos and promoting our organization. The event will be coordinated by Ann Ivory MWG, Membership Director. If you are interested in working at the event, contact Ann or my self. We will use this venue as a means to recruit new members. More on this to come soon.

Lastly, if you are interested in running to serve on the board of directors in 2017 please contact Ann Ivory, Will Wilson or myself.

**August Picnic Review By  
Dale Ausherman**

We were blessed with dry and not-too-warm weather for our annual member picnic, held on 14 August at Starr/Jaycee Park in Royal Oak. This new location was required due to scheduling conflicts with our historic location at the Royal Oak VFW Park. While the new location had more convenient restroom facilities the new location lacked adequate parking so there will be an attempt a return to the VFW Park for 2017. Be alert for updated location information next year!

I have been told that the “Chieftain” of overall picnic organization is Bill Gayde, with assistance from Carolyn. But Bill tells me that Bill and Sally Rigstad generally take the lead role in picnic planning and implementation. Regardless of their respective responsibilities, we all thank both Bills and their better halves for their hard work in making the picnic an enjoyable affair for members every year. Other volunteers have noteworthy roles as noted below.

As usual the annual picnic kicks off with a tool/lumber swap meet, with many must-have bargains offered. I saw great stuff from Al Goldstein, Greg Smith, David Wigton, and Will Stanford. There may have been other contributors whom I missed, especially if they had “sold out” by the time I arrived. I managed to escape this year with all of my cash intact, but I know others did not, and instead went home with new must-have treasures.

The food for the picnic was as usual excellent, with drinks, hotdogs, fried chicken and corn-on-the-cob provided by the Guild, and supplemental pot-luck delights provided by attending members. Bill and Sally Rigstad supplied the water and soft drinks, while Carolyn and Bill Gayde provided the chicken. Ann Ivory not only came early in the day to help with set up, but also delivered the delicious just-in-time corn. And Ed and Elizabeth Stuckey/Miller tempted us with wonderful hotdogs. Ed pointed out to me the irony of him and Elizabeth always preparing the hot dogs, as they are both vegetarians. I told Ed this was a well-planned Guild strategy to be sure the dogs did not start to disappear before food was served. Perhaps we should ask Bill Gayde if all the chicken makes it to the table. In any case, we members cannot thank this team enough for their hard work in making our picnic such a success.

Guild VP Will Wilson conducted the traditional picnic raffle. The three prizes were VISA gift cards, spendable just about anywhere. (The Royal Oak Rockler’s has moved to Novi so the traditional Rocker cards are more difficult to obtain, and to use by some members.) This year’s winners include Ed Stuckey, Dan Simeck, and Fred Ball. We are counting on them to get out there and pump up the Michigan economy! We had a raffle.

Due to the unavailability of a horseshoes pit at this year’s park, we did not have the annual horseshoes match, so last year’s champions will get to rein supreme for another year.

Once again we thank the picnic organizers for their service in making the Guild picnic an annual delight for attending members.

DAA

**The following article, written by Guild member Al Goldstein, appeared in the August 2015 issue of the Woodworker's Journal Magazine and is provided here for our Guild members. Article is copyright Woodworker's Journal.**

### **Dead-on angles in the woodshop**

Al Goldstein

A common difficulty is making accurate angle cuts on a table saw. An alignment procedure has been developed using angle standards that can be verified in one's own shop. It is easy to implement and does not depend on aging eyes or shaky hands.

A first step is to verify that the table saw blade is parallel to its miter slots. The second step is to use reference angles for setting up table saw sleds and miter gauges. Plastic drafting triangles are inexpensive, highly accurate and are the reference standards to use. An advantage of these triangles is that one can verify their angular accuracy using a simple reference fixture described below.

#### **Table Saw Sleds**

The crucial step in sled construction is setting the front fence exactly perpendicular to the saw kerf in the sled's base. After mounting the unfinished sled on the table saw miter slot(s) and partially cutting through its base, one end of the front fence is attached to the sled base and rotated to be perpendicular to the saw kerf. Some methods use a framing square set visually. This requires adequate lighting and a good set of eyes. Other methods set the fence exactly square by trial and error. This is a time-consuming procedure requiring test cuts and a mechanical means of incrementally rotating the fence. The new method described here is fast, reproducible and highly accurate.

Its key is to use mechanical contact of one 90 degree side of a plastic triangle to the saw kerf in the sled base and the other 90 degree side to the front fence. This is accomplished by placing a flat reference surface in the saw kerf to contact the triangle. Since most saw blades are 1/8 inch wide, an aluminum bar 1/8 inch thick works well. Thinner blades will require a thinner reference surface. The reference surface must be at least 1/8 inch proud of the sled base to contact the plastic triangle. Hold the triangle so that one 90 degree side is always in contact with the aluminum bar and slide the triangle toward the front fence. Take care that the fence does not contact the aluminum bar. When the other 90 side of the triangle is in full contact with the fence it will be exactly perpendicular to the saw kerf. With a bit of practice you can align the front fence with your eyes closed.

The triangle also can be used to verify that an existing fence is properly aligned. Place one 90 degree side against the aluminum bar in the saw kerf and then slide it toward the index fence and verify that the other 90 degree side makes full contact with the fence. Figure 1 shows this verification with the triangle in contact with both the 1/8 inch aluminum bar and the front fence of this sled.

## Miter Gauge

The alignment of miter gauges is accomplished in much the same manner. Both miter slots on the table saw are used; the miter gauge in one and a reference surface in the other. On quality table saws these two slots should be exactly parallel. This can be verified by well-known procedures.

The most convenient reference surface is a commercially available, or shop made, miter bar elevated higher than the table saw surface by underneath pennies. Mount the miter gauge in the other miter slot with its fence free to rotate. Position the plastic triangle between the two miter slots with one 90 degree side held against the elevated miter bar. Slide the miter gauge toward the triangle allowing its fence to rotate until it makes full contact with the other 90 degree side of the triangle. Make certain that the end of the elevated miter bar does not contact the miter gauge fence. Lock the miter gauge and it will be dead-on perpendicular to the miter slots.

A 45 degree miter gauge angle may be aligned accurately using 45 degree triangle with its long side placed in contact with the elevated miter bar. Figure 2 shows a 45 degree angle being aligned on a miter gauge. The in-shop verification of triangle angles is discussed below.

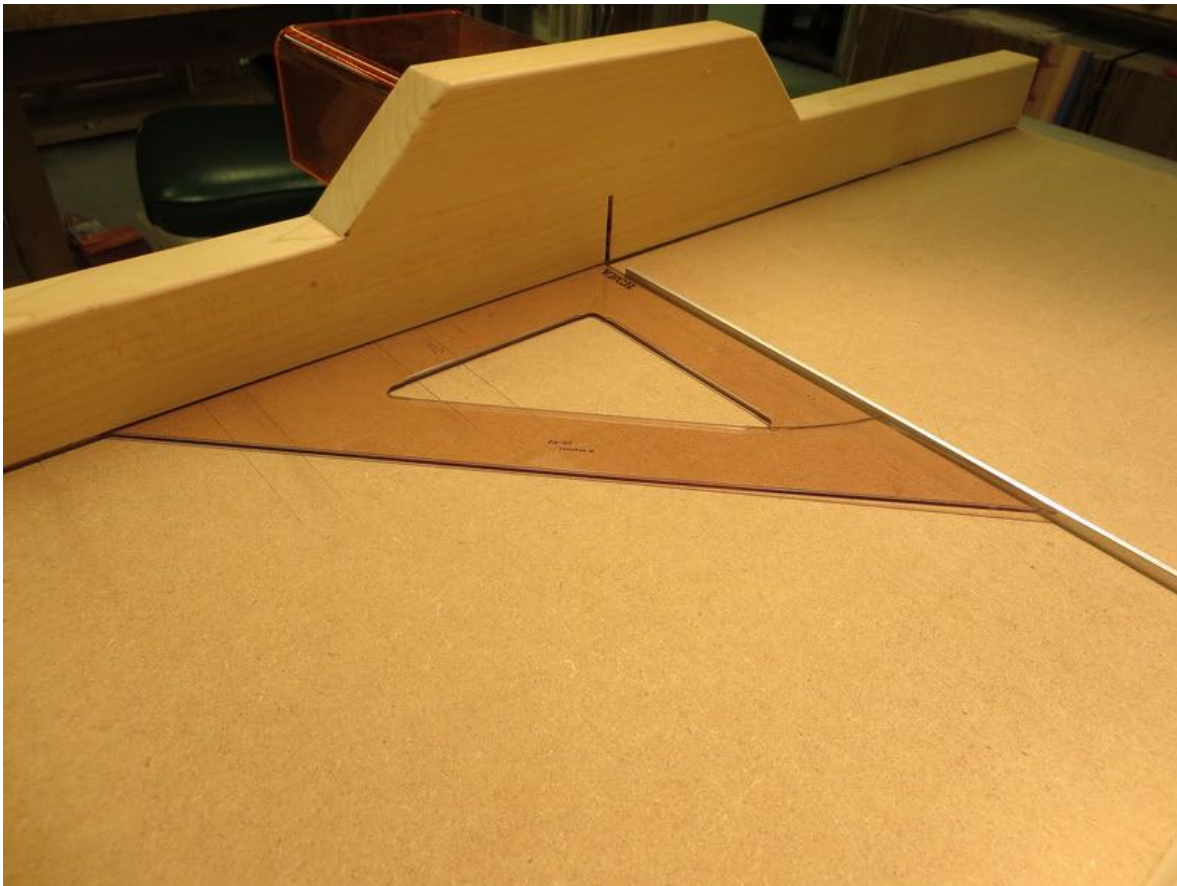


Figure 1. Verifying the 90 degree of a table saw sled front fence using a 1/8 inch thick aluminum bar in its base.



Figure 2

Setting a miter gauge to a 45 degree angle. The triangle is gently held against the raised miter bar so it can move easily along the miter bar when pushed by the miter bar fence.

#### Verifying triangle angular accuracy.

Using an angle reference fixture you can verify the angles of plastic triangles to high accuracy right in your own shop. This will give you the ability to check the angle accuracy of all of your tool settings before you begin your next project.

The simple angle reference fixture made from melamine boards is shown in Figure 3 below. The top factory edge is straight and used to verify the 90 degree alignment of try squares. The flat bottom ledge, a piece of grooved melamine, is used to support the plastic triangle being tested.

To verify the 90 degree try square angle set it on the top surface and draw a straight line on the Melamine. Then flip the try square left to right and draw another vertical line over the first. If the 90 degree angle is accurate the two lines should completely overlap (or be exactly parallel to each other).

For checking the 90 degree angle of a triangle place one 90 degree side on the bottom ledge. With a 0.5 mm mechanical pencil draw a vertical line alongside the vertical 90 degree side. Flip the triangle right to left and using the same vertical 90 degree side starting from the bottom draw a new vertical line over the first one. If the two lines overlap completely (or are exactly parallel), the triangle's 90 degree angle is exact.

Other angles of plastic triangles also can be checked for accuracy using the reference fixture. For a 45



degree triangle first verify its 90 degree angle using the procedure described above. Then place one 90 degree side on the bottom ledge and draw a straight line using the long side of the triangle. Rotate the triangle one quarter turn so that the other 90 degree side, and other 45 degree angle, is on the bottom ledge and then flip it right to left. Align the long side of the triangle with the previously drawn straight line and draw a new straight line making certain that the two lines overlap at the bottom ledge. If these two lines overlap completely the two 45 degree angles are accurate.

For a 90 60 30 triangle the procedure is a bit more complicated. First verify the 90 degree angle as described above. Then place a blank sheet of paper on the vertical Melamine surface under the triangle. With the 90 degree angle on the bottom edge draw a straight line on the paper. Then draw a line on the paper with the 60 degree angle on the bottom ledge making certain to intersect the bottom of the previously drawn vertical line. Repeat this procedure with the 30 degree angle on the bottom edge. The 30 degree line should be in the middle of the 60 degree line on the paper. This can be verified by using a compass. Put the point of the compass on the intersection of the three lines and strike an arc on the bottom edge of the paper and on the 60 degree line. Then with the compass point on these intersections of these arcs and the bottom paper edge and the 60 degree line strike arcs on the 30 degree line. These two arcs should intersect at the same point on the 30 degree line demonstrating that the 30 degree and 60 degree angles are accurate.



Figure 3

The angle reference fixture is made from melamine boards. Pencil lines drawn on it easily come off using an alcohol soaked rag.

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MEET WOODWORKING EXPERTS



James Hamilton, Ernie Conover and Jeff Farris

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**SCHEDULE OF EVENTS**

**SATURDAY, SEPTEMBER 3<sup>RD</sup>**

9 a.m. Board Cutting  
10 a.m. Hand Cut Dovetails with Ernie Conover  
11 a.m. SuperMax Sander Free Demo  
1 p.m. Hand Cut Dovetails with Ernie Conover  
3 p.m. Hand Cut Dovetails with Ernie Conover  
All Day Representatives from Nova, Robert Sorby, Freud, Salice

**SATURDAY, SEPTEMBER 10<sup>TH</sup>**

9 a.m. Meet James Hamilton (aka "Stumpy Nubs")  
11 a.m. CarveWright 3D CNC Free Demo  
11 a.m. Meet the Village Workshop Maker Space  
All Day Representatives from Fein, Affinity Tools

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**SATURDAY, SEPTEMBER 17<sup>TH</sup>**

11 a.m. Meet the Michigan Association of Woodturners  
11 a.m. Custom Woodturning Free Demo  
All Day Representatives from Next Wave Automation CNCs

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**SATURDAY, SEPTEMBER 24<sup>TH</sup>**

11 a.m. Meet the Michigan Woodworkers Guild  
11 a.m. Knife Making Free Demo  
All Day Representatives from ZAR, Jet, Powermatic



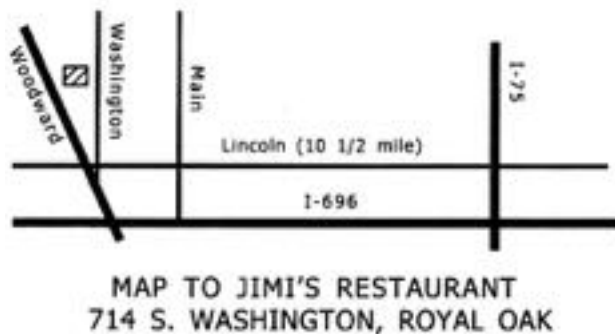
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For membership information, contact Ann Ivory at 21206 St. Francis, Farmington Hills, Michigan By email, contact at [AnnIvory.MWG@gmail.com](mailto:AnnIvory.MWG@gmail.com).

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

## GLENN WING

POWER TOOLS

33656 Woodward Ave.  
Birmingham, MI 48009  
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Jeff Wilmot



**Michigan Woodworkers Guild**  
**21206 St. Frances**  
**Farmington Hills, Michigan 48336**

### **Scenes From The August Picnic**



**The Food Line At The Picnic**