



MICHIGAN WOODWORKER

michiganwoodworkersguild.com



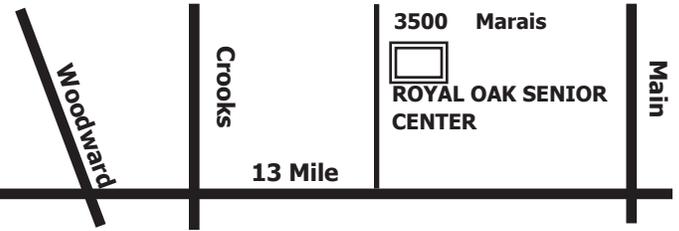
Michigan Woodworkers' Guild (est. 1981) February 2018 Vol. 39 No.2

SUNDAY, FEBRUARY 11

At the Royal Oak Senior Center from 2:00 to 4:30 pm.
The raffle and other activities from 1:00 to 2:00 pm.

Dale Ausherman, Richard Herbert, and Ed Stuckey will talk about the Society of American Period Furniture Makers. Ed will also demonstrate Vacuum and Hammer Veneering as well as Cabriole Leg Construction

The West side luncheon will be at the Senate Coney Island on the 22nd at 1:16 pm (see map on page 7)



MAP TO ROYAL OAK SENIOR CENTER

The East side luncheon will be at The Golden Basket on the 15th at 1:14 pm (see map on page 7)

The South side luncheon will be at Ramsey's on the 15th at 1:16 pm (see map on page 7)



Marco Terenzi demonstrating how he makes miniature tools



Take a close look. These are functioning miniature tools!

CALENDAR OF EVENTS

March 11, 2018 will be our annual **Jigs and Fixtures** meeting at the **Livonia Senior Center** coordinated by **Pete Goddard**. Contact Pete if you have a favorite (or not so favorite) jig or fixture to share.

The monthly luncheons will be:
West side on the 22nd at 1:16 pm
East side on the 15th at 1:14 pm
South side on the 15th at 1:16 pm

SATURDAY April 14, 2018 will be our annual **Showcase of skills** meeting at the **Livonia Senior Center** coordinated by **Ed Stuckey**. Contact Ed if you need a large space.

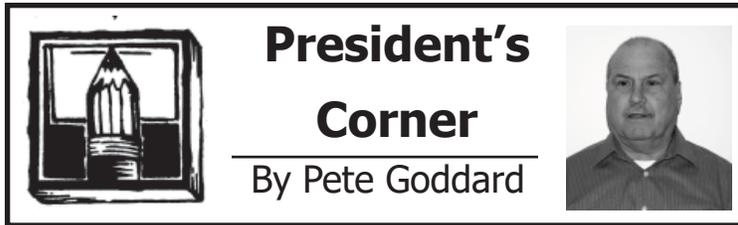
The monthly luncheons will be:
West side on the 26th at 1:16 pm
East side on the 19th at 1:14 pm
South side on the 19th at 1:16 pm

The **May 20** meeting will be at the **Livonia Senior Center** and will feature **Clair Boussum** demonstrating **Intarsia techniques**.

The monthly luncheons will be:
West side on the 24th at 1:16 pm
East side on the 17th at 1:14 pm
South side on the 17th at 1:16 pm

June field trip to be announced.

The monthly luncheons will be:
West side on the 28th at 1:16 pm
East side on the 21st at 1:14 pm
South side on the 21st at 1:16 pm



I hope everyone enjoyed the January meeting. The miniature work that Mario Terenzi presented at the meeting was fascinating. The actual tools were so perfectly crafted as to be indistinguishable from their full size counterparts – except for the size. I had the impression that all the attendees were amazed by the tools and parts that he brought with him. For any members that missed the meeting, Marco does have a web site. His work is amazing, but so are the prices he is able to charge his collectors. Members that want to further pursue Marco's methodology should be aware that Marco is teaching a course this year at Marc Adams school.

The February meeting will again be at the Royal Oak Senior Center and will feature a presentation by Dale Aushman and Richard Herbert on the Society of American Period Furniture Makers (SAPFM). Dale is the current president of that society. In addition to Dale's presentation, Ed Stuckey will present vacuum and hammering veneering techniques as well as how to make cabriole legs. Members that have attended previous Guild 'Showcase Of Skills' meetings may remember Ed's Federal table. The SAPFM group consists of woodworkers that have skills with their woodworking that many of us will find difficult to match. I hope that their presentation will help all of us to find ways to improve our woodworking.

The executive committee is still in discussions on the future of the Guild library. Our library currently consists of DVDs only. All VCR tapes have been eliminated. All books and magazines were eliminated some time ago. The DVDs can be checked out for a \$2 fee. Unfortunately, DVDs do not last forever. Age will cause damage to a DVD. Additionally, physical damage to a DVD can easily occur. Current U.S. copyright laws are complex and easily violated. Penalties for violating

a copyright, even inadvertently or without malicious intent, are draconian. Thus, back up copies to replace damaged discs, may not be legal. The result is that the \$2 charge is hopefully adequate to offset the potential for damaged DVDs. Most, if not all of the DVDs are copy protected.

The March meeting, which will be held at the Livonia Senior Center, will be our annual meeting on Jigs and Fixtures. If you have jigs and fixtures that you have designed that help you in your woodworking, please share them with the other members of the Guild. We all run into the same problems. Sometimes someone else's solution is just the right answer. Contact me at either plgoddard47@gmail.com or (248)633-6166 if you have fixtures to share and I will make sure that you are a part of the presentation team.

At each of the Guild meetings, I will ask the attendees to share any safety issues that they may have been involved with. Each of us tries to work as safely as possible, but mishaps still occur. Any safety related incidents or near misses that you can share may help prevent another member from finding themselves in a similar situation.

In addition to safety related sharing, I intend to ask attendees to share any tool related information they may have. If you have purchased a tool to support your woodworking, please share with other Guild members your experience with the tool. Is it the best thing you have found recently or perhaps a bit of a disappointment? We can help each other avoid unfortunate tool purchases and increase the likelihood of good experiences.

The Guild meetings are also an opportunity to consult with other members about any difficult issues you have encountered in one of your projects. There is almost certain to be someone at the meeting who has encountered your problem and can provide a solution you may not have thought of yet.

I look forward to seeing all of you at the February meeting.



MEETING REVIEW

By Dale Aushman



MWG Meeting Review Marco Terenzi – Miniature Tools

Our members are always a *little* interested in “*huge*” (actual size) tools. Who would have thought they would be *hugely* interested in *little* tools? Anyone who has seen the work of Marco Terenzi, maker of fine miniatures, would understand. Marco’s specialty is making miniature woodworking hand tools. The tools he produces are nothing short of incredible reproductions of actual hand tools, so realistic and accurate that when handling them one feels as if he has become a giant inhabiting some gnome’s workshop. Built to ¼ scale, his tools are not only miniature but fully functional, precisely accurate in every detail. (www.marcoterenzi.com)



Marco shared with us his pathway to being world renowned for his miniature tools. He displayed many actual examples of his miniature tools, and reviewed via PowerPoint slides the amazing processes, tools, and machines by which he produces them. Marco’s

famous skills and resulting highly-sought-after tools have been reviewed in a *Popular Woodworking Magazine* article by Christopher Schwarz (February 2016 # 223), and in a *Woodworker’s Journal* online article by Joanna Werch (www.woodworkersjournal.com/marco-terenzi).

Marco is 27 years old and so has the excellent eyesight required for the exacting work he performs. He has been at model building a long time, starting at 7 or 8 years old building balsa-framed model airplanes. He did not put the silk fabric covering on the models because he liked seeing the details of the airplane structures. This early appreciation of detail was telling for what came later in life. At age 10 he received a Delta mini lathe for Christmas and immediately loved it, spending hours in his parent’s basement turning upwards of a 100 pens and other small objects. At age 11 he got a scroll saw and spent untold hours making scroll saw projects.

During high school he took some engineering classes but quickly gravitated to the fine art world, deciding to go to college at the College of Creative Studies (CCS). There he focused on art furniture, including a crash course on woodworking. He was also introduced to blacksmithing, including the making of Damascus steel blades. While he made many pieces of full-scale art furniture, all with beautiful sculptural form and precision woodworking, he was not excited about the prospects of selling to galleries with their heavy commissions. He also was becoming obsessed with high tolerance fitting of parts, which began to drive him to making miniatures. Meanwhile he was continuing to expand his shop in his parent’s basement utility room.

After college, while exploring opportunities in conventional woodworking, for fun he joined the Miniature Arms Society (www.miniaturearms.org), a group of miniature arms enthusiasts who promote making and collecting miniature arms, with the emphasis on artis

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tic beauty and craftsmanship. This interest grew, but towards making miniature replicas of the woodworking hand tools he had come to so love and appreciate for their function and beauty. He soon acquired a Sherline mini metal lathe, and he was off and running. Initially he made fully functional miniature steam engines

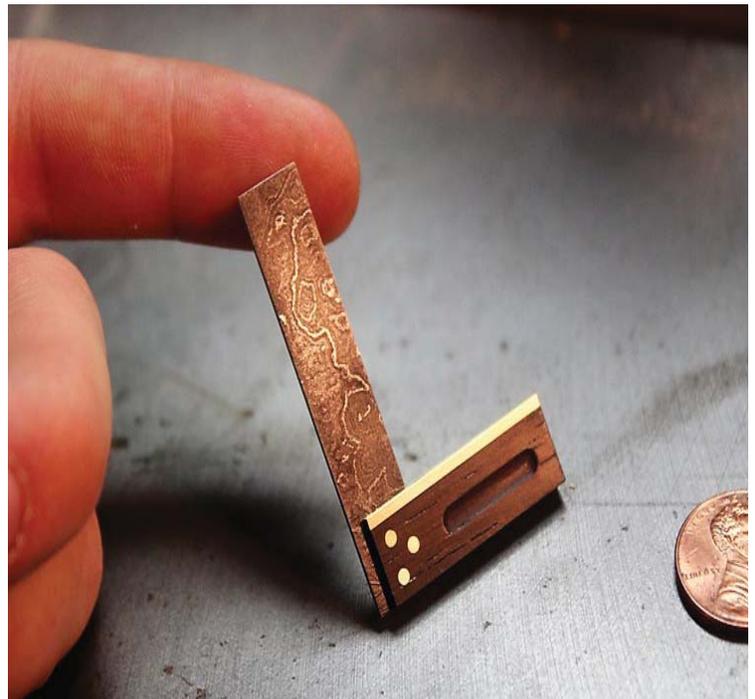


(from kits) on consignment to buyers. These were quite complex engines, some selling for upwards of \$8,000. But he soon turned to making miniature tools, and the rest is history.

Marco's first mini tool was an engineer's hammer, followed soon after by other hammers. He soon made a mini anvil, then woodworking tools and mini woodworking benches. All of his tool miniatures are $\frac{1}{4}$ scale. He has made miniatures of most familiar hand tools, including various dovetail and tenon saws (with accompanying mini saw-nut driver), squares (including ones with a Damascus steel blade!), an "Anarchist's" tool chest (copied after Chris Schwarz's chest and including scale hinges and ring pulls), drawknives, necklace and other dividers, $3\frac{1}{2}$ inch-long Lie Nielsen No. 62 bevel-up low-angle jack planes (which he demonstrated actually function very well), panel saws, and bow saws, amongst others. He has also produced

special one-of-a-kind miniatures as personal possessions, such as a $\frac{1}{10}$ scale Anarchist's tool chest, and a mini Studley mallet. He has even made some $\frac{1}{10}$ scale ballpeen hammers. Marco usually makes multiple copies of each tool. He sells to collectors via Instagram and his miniatures are highly sought, thereby commanding impressive prices. Marco's mini tools are so impressively done and realistically precise that the price is well worth it.

Marco spent much of his presentation reviewing the processes, tools and special machines he uses in his craft. He is very focused on the processes. The mini tools are basically made with adaptations of the processes used for the real tools, including vacuum investment casting for brass and other metal parts, only on a tiny scale. Investment casting involves making a precision copy of the desired part, then uses this part to make a silicon mold. This mold is used to make multiple wax patterns of the part. The multiple wax patterns are assembled into a "tree" with an interconnecting wax gating system and coated ("invested") with a heat resistant slurry coating to become the mold. The mold is heated to strengthen it and remove the wax,



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and then filled with the molten metal to cast the parts. Vacuum is applied to help get the metal to all parts of the mold. Marco made his own electric furnace for this process. Once cooled and hardened the slurry mold is broken or otherwise cleared away and the various interconnected metal parts are freed. Then Marco spends much time cleaning up and surface finishing the parts to his satisfaction. His basement shop and associated tools have now been moved to and expanded in an Oxford MI shop.

Marco uses a Byrnes Model Machines 4 inch table saw to make wooden parts or blanks for shaping. Marco uses CAD for die design and then mini metal milling machines to make the dies. He is venturing into 3D plastic printing and CNC milling as well. He sometimes uses the metal milling machines to make the small wooden parts, as the surface that results is



very smooth. He also uses the Sherline lathe to make his own mini screws, nuts, bolts and set screws for planes. He eventually acquired a pantograph milling machine, which can mill copies of small parts in metal or wood with scale reductions of 10:1 up to 1.5:1. For example, he uses this to rough mill the parts for the

wooden bow saw, working from a larger set of patterns he has created by hand. He finishes each part by hand, so there is lots of hand work in each tool he



makes. He is a stickler for accurate appearances and quality finishes. He is also very clever about figuring out auxiliary parts, such as the use of jeweler's saw blades as the blades for the bow saws, but with precision work done to attach realistic little mounting pins in tiny holes drilled in the length of blade.

Marco accompanied his presentation with a slide show portraying his work and the associated processes. Marco's website (given above) provides an opportunity to see superb photos of his work, and one can also see what is currently available for sale. His Instagram account ([instagram.com/marcoterenzi](https://www.instagram.com/marcoterenzi)) provides regular posting of his current work, and by following him one can look back at postings to see past work as well. Marco does most of his selling via these two media locations.

We thank Marco for sharing his extraordinary work with us.





FYI

By Ken Wolf



MWG 2017 Toy Program Summary

Following our December 10 Guild meeting the toys and boxes donated by our members were delivered to a grateful Children’s Hospital. Thanks to the efforts of our members we were able to deliver 480 wooden toys exceeding our target of 400 toys, we also delivered plain boxes and tool boxes for art class decoration totaling 45 which also exceeded our target of 30 such boxes. Our memory box delivery of 17 was also over our target of 10 so our combined efforts led to a very successful support of the hospital. The staff at Children’s Hospital was very appreciative of our contributions to their Snowpile program to assure every child in the hospital has a gift at each department’s Holiday Party. Thanks again for supporting this Guild program.

On a totally different topic as I reviewed the 2018 catalog for Marc Adams School of Woodworking I was surprised to see how many of his instructors have made presentations to our Guild. I noted the following 2018 instructors who have presented at our Guild meetings: Marc Adams (numerous times), Michael Fortune, Zane Powell, Kathy Wise, George Walker, Kyle Huntoon, Marco Terenzi.

This helps highlight some of the professionals that supplement our own member’s sharing of expertise/knowledge in helping all of us expand our woodworking knowledge and capabilities. Taking advantage of these opportunities from our meetings offers a great deal of information for our members with the convenience of local meeting locations.



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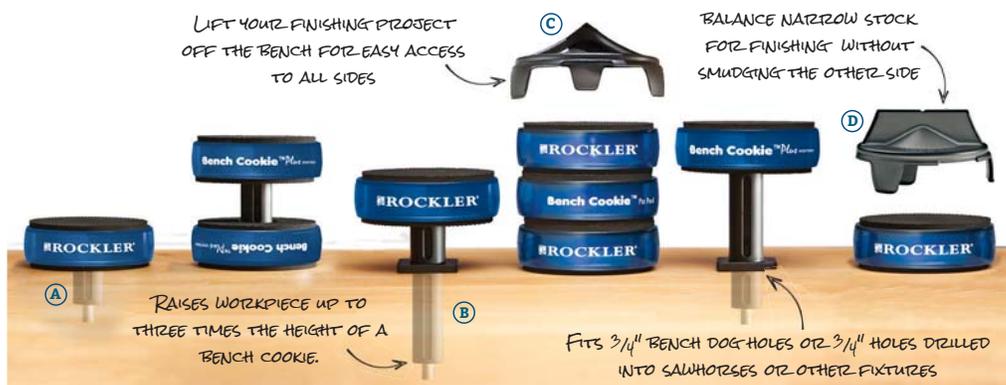
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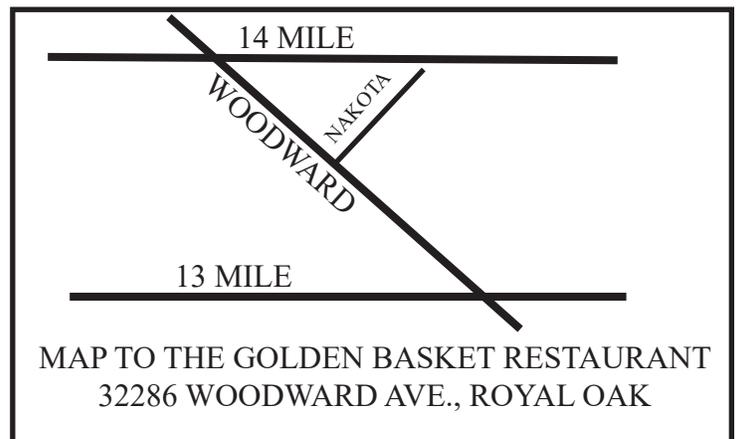
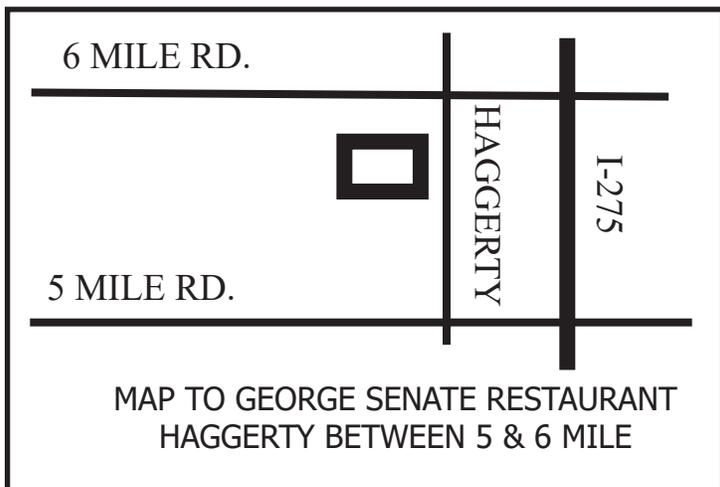
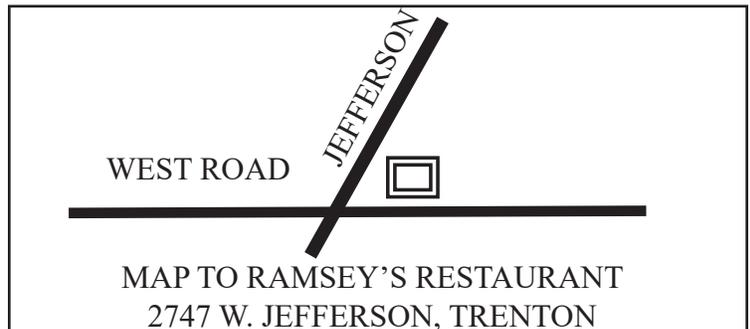
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For membership information contact Bill Gayde at: williamgayde@comcast.net.

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





Michigan Woodworkers' Guild
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The Picture Gallery



**A Miniature Plane and Draw Knife that you can hold in the palm of your hand.
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