

# OREGON WOOD WORKS

## MORE INTERESTING TIMES

GIG LEWIS, PRESIDENT

Here it is Friday afternoon, the 19<sup>th</sup> and we are closer to the end of the action items to be accomplished before we open the shop.

Ariel will be working with the Shop Attendants over the next week bringing them up to speed on all the Industrial level tools. They are going to be building a set of dressers for the Open House Ministries as part of the shake down. 28 members are learning to become Shop Attendants.

Chip's Education team is updating the Safety Sheets on all the core tools in the shop. Collectively they have had many hours and many discussions on what goes into these Safety Sheets.

***A note here that is very important. In order to use the shop a member must have a Green Card. To get the Green Card the member must pass a written test, a machine class and a proficiency test on all the core tools. See the Website and this newsletter for details. For many of you this will be a review of what you already know. You MUST pass the written test.***

Ray Curtis and his Tool Team are invento-



rying tools and making benches and assembly tables, and adjusting the shop to fit our needs.

Steve Poland, a newer member, is working with the City of Portland and the Fire Dept. to make sure we're in compliance.

Jim Madaras is getting signs made.

Bob Oswald has put the webstie into shape and David Dunning has the scheduling calendar finished.

Bob O'Connor is doing demos at Rockler on the weekends helping us get members.

My point in all of this is that again we have lots of busy folks doing things that will make the Guild better. We can always use more help, don't be bashful.

As a last note, Lee Valley tools has donated 3 sets of 10 Narex chisels, 2 Veritas Medium Shoulder Planes, 1 Veritas Bevel Up Smoother Plane and 2 Veritas Low-Angle Block Planes with an approximate value of \$1200. Those of you that have not purchased from Lee Valley are missing out on probably the best value for the money in the woodworking industry, plus they have the best Customer Service. Check them out and say thanks from our Guild when you do.



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NEXT PROGRAM — TUESDAY — AUGUST 20, 2013 7:00 PM

## DENNIS LOVELAND FURNITURE

5034 NE 105th Avenue, Portland, OR

**NOTE: Meeting has moved to TUESDAY**

Dennis Loveland has been a furniture maker for over 34 years. He has been in many fine arts and crafts shows around the country. Many well known galleries in the west show his work. All furniture is designed by Dennis at his studio in Portland, Oregon.

The business is all about making the finest furniture with the most thoughtful designs available. They do all designs in their beautiful studio in North East Portland. Dennis and his journeymen do furniture the way it was done by the best makers of the past, with use of the best techniques from the past and the present. They use the finest of modern finishes that are Green certified. The woods we use are unique and not found in regular stores. Top quality woods such as Western Walnut, figured Maples, Cherry, Mahogany and exotics from around the world. You will be impressed with the art of furniture and the quality that you thought you might not be able to afford.

Out near Portland airport, Take I84 East to I205 as if headed to the airport. Exit on Sandy Blvd. And keep right onto Killingsworth. About six short blocks to NE 105th. Turn right and the studio is a short distance north on the right. Parking is limited at the shop but is pretty adequate in the surrounding area.

Board meets at 5:30

## ANNOUNCING: THE GUILD WOODSHOP

THE BOARD OF DIRECTORS

It's been a busy month for four committees working through the details of getting the shop ready for use. It's getting close.

A one week community project for the Open House Ministries will be a time to train Shop Attendants to use the equipment and become comfortable with it for when they start helping you.

General member use begins September 1. Many hours of discussion by the Board of Directors in meetings and dozens of emails have resulted in general operating guidelines, pricing, availability and many other details. Many of you will wonder, "Why not this way" or "Why not that way". Please know that the Board has worked hard and long to try to find a scenario that embodies what the Guild stands for and provides you the best value in town for this new asset. Much of the plan is a best guess. That means that we will be making adjustments, probably to every area, in the coming months. It's time to start using the shop and get some practical experience.

### "So, tell me about it!", you say.

You undoubtedly have a bunch of questions. Most of them will likely fall into the list below.

#### **What tools does the shop have?**

Our landlord ran a professional shop here and is letting us use some very high end tools. The shop comes equipped



Two machine rooms. LR: wide belt sander, planer, shaper, (hidden) jointer, sliding table saw (far room), SawStop

with a 16" jointer, 20" planer, 42" wide belt sander, sliding table saw, 20" band saw, mortiser, 20" disc sander, 10" disk / 6" belt sander, shaper, 50" X 72" vacuum press.

SawStop donated a Industrial 7 HP SawStop. Jet and Rockler each donated an air filtration unit.

Donations have been arriving and include: 12" re-saw, 17" band saw, several hand and portable power tools, thanks already to our members.



LR: Jointer, planer, shaper with power feed

#### **What about hand tools and the many small things?**

Members have donated some tools based on the email request from Gig this month. If you have tools you'd like to contribute, contact Ray Curtis, Tools Committee Chair. There are a number of tools that don't need to be listed here. We are working on special discounts and other programs with a variety of vendors. The guild will likely acquire a few tools as we find a need that is sufficiently universal.

You will provide your own consumables such as glue, sandpaper, finishes, etc.

#### **Can I bring my own small tools or portable power tools?**

You can definitely bring your own tools when you're working in the shop. You would take them home at the end of your time slot as there is not adequate storage. The same is true regarding your projects and materials.



Ariel demonstrating the sliding table saw

### **How much will it cost?**

Shop access is available at three different levels, for light, medium and heavy users. The best hourly rate is at the heavy user end. Think of the number of slots as 2, 5, or 8 per month, times 12 to get the total. Easier to remember.

A time slot is a four-hour block. The blocks will be scheduled as 9am–1pm, 1pm–5pm and 5pm–9pm daily. You can use a maximum of two slots per day.

You can use the time slots at any rate you like. If you're working on a project and want to work 3 full days a week, that would be 6 time slots. You can do that. When your time slots are used up, you can buy another block.

- ♦ Light user \$150 24 slots (\$1.56/hr)
- ♦ Medium \$240 60 slots (\$1.00/hr)
- ♦ Heavy \$360 96 slots (\$0.94/hr)

Some slots will be blocked out for Community Projects and for Education Classes. During those times, the shop will be closed to member use.

Shifts will be supervised by a Shop Attendant who is qualified on all machines. That person is the master of the shop for that shift, will not work on his/her own project and will supervise the safe operation of all tools. His/her word is final. A Shop Attendant has the authority to ask a person to leave the shop who acts in any unsafe manner and fails to heed directions to change.

### **When can I start using the shop?**

The shop will be officially open for use September 1. You can sign up prior to that time if you meet all the criteria.

### **What times can I use it?**

You can use the shop any time it is available. The hours are mentioned above. Use of the shop is limited to ten members at a time. If the calendar shows the shop full, you can call in before a shift time to see if there is space available. We plan to have a shop telephone. You can drop in if the Attendant says it is ok, but you can not just show up if the limit has already been reached.

### **Where do I find details on the website?**

On the main menu, there is an entry "Our Shop". Details are visible to the public. However to pay and schedule, you must log in as a member. If your dues are not paid up, you will not be able to log in. To log in, use your email address and password in the upper right areas of the home page. Under Our Shop, additional entries will appear including PayPal and the Scheduling Calendar.

### **Are there any criteria I have to meet?**

There are eight steps required of all shop users.

1. Be a current member, dues paid up to date.
2. Sign a liability waiver and submit it to the Shop Administrator. Copies are available on line and at the Shop.
3. Take a Tool Safety Class. There are two levels. Register on the website under Classes. Attendance is limited.
  - \* Core Tool Class—the most commonly used machines.
  - \* Secondary Tool Class—the more complex tools..
4. Take and pass a written Safety Exam, administered in the shop after each Safety Class. The exam is available
  10. When cutting a mortise,
    - A. Cut all holes directly touching one another starting at one end & move
    - B. Cut one hole, skip about 2/3 of the hole size before cutting the next h

#### **Jointer Safety Test**

1. The maximum amount of material to be removed per pass on the jointer is
  - A. 1/16" to 1/8"
  - B. 3/8" to 5/8"
  - C. 1/2"
  - D. It does not matter
2. When jointing edge stock the hands should be
  - A. Always behind the stock, pushing it from the infeed table
  - B. Protected by a push stick
  - C. On the front end of the stock pulling it through
  - D. Never directly over the knives

#### *Sample from the Safety Exam*

on line. Study the safety documents for each tool. All of the questions on the exam are covered in the various documents. They are all available on line.

5. Take a short proficiency exam regarding safe operation of each tool. This is strictly a safe operation verification, not a test of your woodworking skill.
6. Have a green card in your possession. This is a special identification badge that will be worn by everyone in the shop. This allows the Shop Attendant to know that you are qualified to be in the shop. You will be issued that card when you pass the Safety Exam. The cards will be stored in the shop for your use when you arrive. Your personal record in the database will be marked with the date you were issued the card. It is permanent. You do not have to retake the test in the future.
7. Have a paid up Shop Access membership according to one of the three levels listed above. When you pay, you will be issued a set of punch cards by the Shop Administrator. When you arrive at the shop, the Shop Attendant will punch your card for one session.
8. Sign in and sign out on the Shop Log Sheet. This is required for our ability to track safety issues. The Shop Attendant will do a mid-shift verification of the number of people in the shop against the sign in sheet.

## SHOP (CONTINUED)

### **How do I sign up for the training?**

Look under Classes on the website and register for the next available training session. There is no charge.

### **How & when can I take the safety test?**

You can study for the test any time. Go to “Our Shop”, read the various documents under “Operating Guidelines and Safety” and practice the test under “Tool Safety Test”. The test will be administered at the shop after the Safety Training session. Some documents are being improved, so check for the latest if you’re signing up for the class.

### **How do I sign up for time?**

Under “Our Shop”, to schedule time use the sub menu, “Shop Reservations Calendar” Do not use or make entries in the Shop Attendants calendar. You must be logged in.

If a time slot is available it will be light green and the computer pointer (cursor) will allow you to click there. If it is dark, it is not available at this time. To schedule time, click on a desired time slot and enter the information required.

Fri 7/12/13	Sat 7/13/13	Sun 7/14/13	Mon 7/15/13	Tue 7/16/13	Wed 7/17/13	Thu 7/18/13	Fri 7/19/13	Sat 7/20/13	Sun 7/21/13
9:00 AM									
1:00 PM									
5:00 PM		5:00 PM	5:00 PM	5:00 PM	5:00 PM				

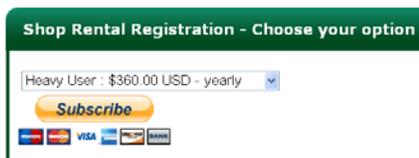
Sample of the Scheduling Calendar

You can see who is using the shop by viewing the calendar at the bottom of that page. Scroll to the date of interest and you’ll see all the activity for that shift. It might be a class, community project or a list of users for that shift.

If no one has requested shop time by the day prior the Shop Administrator (Ariel Enriquez at this time) has the authority to cancel a shift, not wasting the time of a volunteer Shop Attendant when no one is coming.

### **How do I pay for shop time?**

After you are qualified to use the shop, log in to the website and go to “Our Shop”. Select the “Shop Rental (PayPal)” choice. Choose your level and make the payment. The treasurer will be notified of your payment and will contact the Administrator. Your punch cards will be created and stored at the shop until you arrive the first time to pick them up. You will take them with you from then on.



### **What kind of help can I get on the tools I don’t understand?**

A group of Shop Attendants have been trained on all of the machines. One will always be on duty during open time and can help you with any machine. On the more exotic machines such as the wide belt finishing sander, you will be coached and closely monitored for a while to assure that no accidental damage occurs to the machine.

### **What kind of advice can I get on building my project?**

There should be other members using the shop and you can share advice among each other. Realize that they would be using their shop time to help you, so consider that when seeking help. The Shop Attendants job is to manage the machines and may assist with woodworking advice only as time permits. Consider taking some of the many Guild classes. As we see needs arise, we’ll look for ways to address it.

### **Can I bring a friend with me to help?**

Unfortunately insurance and safety considerations preclude any one in the shop except qualified members. Only people with a green card can be in the woodshop during woodworking sessions. Non-qualified people can be in the shop only during public events such as our monthly programs. People taking classes do not have to be Green Card certified. The instructor will be and it is his/her responsibility to assure safe and proper operation. If a guest instructor is not certified, a Shop Attendant will then be on duty.

### **How many people will be using the shop?**

We are currently limiting the shop to 10 people plus the shop attendant. That number may change as time goes on.

### **Where is parking?**

Parking adjacent to the shop is extremely limited. We have arranged with Multnomah Arts Center, 7688 SW Capitol Hwy, to use their parking lot a couple of blocks away. In our limited use of classes, projects and shop time, it is not a burden for them. They are currently under construction, so parking is a little more limited for the time being. You can also park on any street location although be aware that there are time limits in many places. Also some street locations are restricted by business owners. (See map next page.)

### **How do I haul in my lumber and haul out my project?**

You can park briefly outside the shop to unload your lumber. Then you would need to move to an acceptable parking location. At the end of your shift, retrieve your car to pick up material, tools and projects.



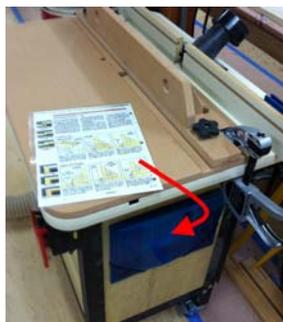
# MEMBERS ON CLUTTER

## GUILD MEMBERS

From a couple of people. Bless them, I can relate. *Unfortunately, clutter is my life.... I have yet to find an adequate solution other than persistence.*

### Ed Ferguson

I laminate copies of setups and instructions for my various jigs and machines and keep them in plastic folders next to the appropriate machine. Here are a couple of photos using one of my router table jigs as an example.



### Janette Square

While it doesn't look like this now ( ) – it did after re-organizing it. I use and keep lots of little pieces of wood because of the type of work I do. I have the lumber



rack for when a board starts out full size. A “shorter” place to put them once they're down to 2 – 3 feet, then the bits and pieces each have tubs.



Once I ran out of tubs – I started saving the bottom portion of the canned cat food cases. Each is labeled and the ones I used most are handiest. While it may be a mess now, I still know where just about ever little bit of wood is....now if I only had space for more.



### Rahn Becker

When your shop is half of the garage, space is at a premium, and mobility of equipment necessary. I made a roll-around cabinet for the planer, but wanted to keep it trim. I also needed a place for my old Kennedy tool box and tools. The tool box provides a needed counter weight for the rather-vertical planer cabinet. And I can roll it out of the way when not needed.



### Larry Wade

Photo1 is a Baker's Rack that I bought on CL for about \$75. I bought it to store my screws, nails and staples. I liked it because it provided a lot of vertical storage, came with several aluminum bread trays, had wheels, had adjustable shelves and allowed me to make wood shelves as well. I mounted pegboard on both sides. The main drawback is that it racks with all the weight I put on it, so I'm had to make a wood cross brace and probably need another.



Photo2 is Sterite stackable plastic bins from Fred Meyer. I standardized on the small height version and use it to store small projects in progress. I've used these for years to keep track of software and manuals for different computers when I had a farm, but now I've re-purposed them for my shop. Blue tape labels.



Photo3 is a wire storage rack I bought at a garage sale once and I used it to store a wide variety of bulkier things that don't have a lot of weight. I frequently see these at other garage sales and resale stores from time to time.



### Jay Johnston

A way I found to gain a little storage for short stock and small sheet goods is to knock out the kick plates under the kitchen cabinets that serve as the base of one of my workbenches. It doesn't look as neat as a solid runner along the bottom face, but it gives me 24" deep and 4.5" tall cavities under each cabinet. If I knew I was going to do this when I installed the cabinets, I could have mounted 2x2" strips under their sides where they are designed to rest on the floor. This would have given me another 1.5" of clearance.

A way I utilize space when storing F-style clamps and short bar clamps is to hang them from the inside of cabinet doors. This only works when the cabinet contains shallow or no shelves. Rip a 1" strip of 3/4" melamine a little short of the width of the cabinet opening. This will make a bar on which to hang clamps. Cut two 1x3/4" pieces of the same melamine. These are spacers to hold the bar off the surface

## MORE ON CLUTTER

GUILD MEMBERS

of the door. I glue and screw the spacers to each end of the face of the strip. In profile the assembled pieces look like a stretched out C or U. I mount this to the inside of the cabinet door. The clearance created by the spacers is sufficient to allow the clamps to grip without falling off.

### Joe Sanders

I read about French cleats in a magazine and thought, what a great idea. I made several of these light brackets.

They can be moved and extend over tools or projects. They also work well for things like clamp racks and the router bit case. I will be adding more cleats to shop as time goes.



*Many thanks to you all who responded to my request. I didn't know I'd have six pages on the shop, but I loved reading your stories. Hope the members do also. Bob*

## THE STORY OF MY JUNK

BOB LEE, FROM SICILY

Clutter is a big part of my life, and I support it. Here is a brief history of my junk.

In my high school days I worked in AG and later in a machine shop running a Bridgeport mill making wing parts for B52s. I spent much of my income on WWII surplus electronic equipment, learning what became my trade. When I went off to college that pile of junk disappeared. The B52s are still flying, but that junk is gone. I still miss it.

While in college I collected a family, and felt the need for more junk. I bought a Sears table saw for our back porch, and built a lot of stuff, creating a satisfactory pile of clutter in the back porch. Meanwhile I spent a lot of time trying to keep those B52s on the ground.

At age 30 I felt the need to get back to my rural roots, so we went into the alfalfa business, 30 miles from the nearest sidewalk. We built a house, and a barn big enough to hold a couple of hundred tons of alfalfa. The Sears table saw stayed in the living room. The clutter moved to the barn, close enough for comfort.

Eventually the electronics business started generating dough, and we were liberated from moving sprinkler pipe and worrying about a rainstorm cutting our income in half. So the barn became available for a shop. First came the metal

-working stuff, CNC and all, for the business which supplied the cash for living and for the woodworking equipment. Out went the Craftsman table saw, in came the Powermatic 66, the Delta 20" variable speed band saw and 20" drill press. Plenty of room for junk.

But the big barn was too big, too full of animals of all categories, so I had to build a workshop inside the barn, as I realized that to really appreciate junk you have to be short on space. Once in a real workshop, with a sort-of concrete floor, and finite space, I had to deal with junk.

My solution, which has become my life philosophy, is shelves. I built working surfaces around the shop walls, with shelves below, and built shelves above the working surfaces. Junk sits on the shelves, in its native containers, or in those cardboard and plastic shelf bins you buy from places like Global Industrial, like I used in my own company. Sometimes these boxes even have labels.

Note that I said shelves, not drawers. I am always amazed by those beautiful workshop photos of scores of carefully made drawers, really works of fine furniture, along with the rows of chisels and saws and planes all lined up. Very nice, but not for me. I have to see my junk. I could never be organized enough to find things stored in drawers.

I work part-time in Europe. When I put a workshop in my stone house, the urge for shelves came on me, but to put up shelves above the work surfaces I had built around the shop I had to extend the legs supporting the surfaces up the wall, to hold the shelves. You just can't drill into stone walls like you can put screws in studs.

Now at age 73 I am building my shop in Portland. The space is too big to hold my junk, so I am building what I call a tool room, where I store the stuff that I want to make harder for the thieves to take. The tool room will have the work surfaces for fine work, shelves below, and shelves above. But I can't quite stand the idea of more of those little cardboard or plastic boxes from Global Industrial. My dream is, sometime when a project is stuck, to build a lot of little boxes out of scrap hardwood and 1/8" Masonite, with sloping fronts just like the cardboard boxes, and slots in the front edge cut with a dovetail bit to hold those labels...after all, woodworking is about art, not reduced clutter.

## WELCOME NEW SPONSOR

BOB OSWALD

The Guild is very pleased to welcome a new sponsor, North Woods Figured Woods. Note that our summer picnic will be held there in a couple of weeks. A perfect time to see what they carry in the way of beautiful lumber and turning stock.



# Announcing!!!

## Guild Of Oregon Woodworkers

### Shop Open House

7634 SW 34th ave., Multnomah Village - Portland, OR 97219

(Parking is available on the street as well as at the Multnomah Art Center 7688 SW Capitol Highway.)

- The Guild has a new shop in Multnomah Village and would like to share it with you on September 21, 2013 from 10:00 am to 4:00 pm (This is the Sept. Guild Meeting)
- Come and see what the Guild is up to and enjoy some refreshments
- Shop Memberships will be available to Guild Members
- There will be a Silent Auction for 4 Bolstad Style Tables
- In addition, raffle tickets will be sold to support the shop and a drawing for prizes will wrap up the day

## Members of the Guild of Oregon Woodworkers

Shop Membership is now available at 3 levels to current Guild Members:

1. Light User - \$150 for 24 slots annually (Just \$1.56 per hour)
  2. Moderate User - \$240 for 60 slots annually (Only \$1 per hour)
  3. Heavy User - \$360 for 96 slots annually (Best Deal \$.94 per hour)
- Slots are defined as 4 consecutive hours of work periods 9am to 1pm, 1pm to 5pm and 5pm to 9pm
  - To use the shop a Green Card must be earned by attending a review of the operation of the shop equipment (no charge to the member), taking the Tool Safety Exam and achieving a grade of at least 80% with a detailed review and self-correction to 100% and have a signed liability release on file.
  - Shop availability starts September 1, 2013



**Join and pay by September 21, 2013 (Shop Open House) and receive this BONUS!!**

Light User - 2 tickets for Open House Drawing

Moderate User - 5 tickets for the Open House Drawing

Heavy User – **First 20 to sign up acquire a High End, Bolstad Box** all sign-up's 10 tickets for Open House Drawing

- Drawing to take place at the Shop Open House, 7634 SW 34<sup>th</sup> ave., Multnomah Village – Portland, Or. 97219 on September 21, 2013, main Prize **Bolstad Style Table**

# PEGBOARD SOLUTIONS

ROGER CROOKS

## Pegboard Solutions

One of my favorite projects was this Pegboard Cabinet (Shop Notes #77). It provides lots of “wall space” with two sliding panels and over 30 storage bins at the bottom.



## Pegboard Ski and Clamp Holder.

Don’t let a concrete wall hold you back. Using 0.22 Caliber Powder Actuated Tool, you can easily attached holders into concrete for the pegboard. It makes a great holder for all types of clamps and in my case – skis.



## Built-in Workbench and more pegboard.

My main work area has good lighting, a variety of storage spaces and another pegboard back for tools I use most often.



You can never have enough bench space so I built two movable workbenches, one with a built-in router table and the other for assembly space, a sanding area or space for other bench top tools – here with my thickness planer.



## Putting it all together

Using rolling workbenches, and a drill press and band-saw on rollers lets me make maximum use of a two car garage. Push comes to shove; I can move everything to one side and squeeze my wife’s car in if needed.



# JOHN ECONOMAKI CLASS

CHIP WEBSTER

The founder of Bridge City Tools will be teaching Guild members how to make his signature Try and Miter Squares. This workshop is open to anyone in the public who wishes to join the Guild. The fee is \$250 for members, Any skill level is welcome. August 28&29 in the new shop. See the website for full details and to register, or contact Gig Lewis 503.648.7058 or ginglewis42@gmail.com.

# JULY: SHOP PEOPLE

BOB OSWALD

It was a fun evening program in an unusual location. What seems like under the streets of Portland, the Shop People is located downtown on the East Side of the river. Occupying two levels of a great old building, they offer quite a variety of tools to their monthly subscribers. At \$175 per month, you can run your whole business out of this location.



Tools include wood-working, metal working, jewelry, welding, kiln and more. And lots of work bench space in a large number of rooms.

Many thanks to owner Craig Anderson and Sarah Koch for a great tour. Thanks to Lannie Kiehn for showing us around his upholstery shop.

Shop People, [www.shoppeople.org](http://www.shoppeople.org)



A few tenants were present, working on their projects. I’m sorry I didn’t get more details and get to know them better. One fellow was putting finishing paint touches on a prop for a Star Trek production “The Trouble with Tribbles”. It was a Tribble dumpster (sorry, I forgot the right term). Fantastic. Someone was doing a little pottery work and upstairs a lady was making jewelry. Another lady builds replica vintage aircraft off in one corner. Someone is building a dune buggy and another an electric car. There’s a Ukulele maker



huddled against the wall at one end. Sculptor

Jason, new to Portland, is getting a mold ready to have a bronze casting made. Many unusual things and enjoyable people. What a place to hang around.



*The Guild of Oregon Woodworkers is a group of professional and amateur woodworkers like you, committed to developing our craftsmanship and woodworking business skills. The Guild offers many benefits for members, including:*

- *monthly educational programs*
- *monthly newsletter*
- *An education program to help members develop woodworking skills*
- *Sponsor discounts*
- *woodworking shows*
- *network of business partners (the key to our development as members and as a Guild, providing additional learning opportunities)*
- *and a network of support.*

## GUILD OF OREGON WOODWORKERS

10190 SW Washington St., Portland, OR 97225

### CLASSES, SEMINARS, DEMOS, AND SUCH

**Northwest Woodworking Studio** 503-284-1644, [www.northwestwoodworking.com](http://www.northwestwoodworking.com)

**Rockler Woodworking** 503-672-7266, [www.rockler.com](http://www.rockler.com)

**Oregon College of Art and Craft** 503-297-5544, [www.ocac.edu](http://www.ocac.edu)

**Woodcraft** 503-684-1428, [www.woodcraft.com](http://www.woodcraft.com)

**Woodcrafters** 503-231-0226, 212 NE 6th Avenue, Portland, [www.woodcrafters.us](http://www.woodcrafters.us)

### THE GUILD IS PROUD TO BE SPONSORED BY:

Barbo Machinery  
Carbide Saw  
Emerson Hardwood  
Goby Walnut Products  
Hardwood Industries  
Rockler Woodworking  
Woodcraft  
Woodcrafters



- ◆ Some sponsors offer discounts to current Guild members. See their website for details.
- ◆ \*\* denotes Scholarship Sponsor

#### Affiliates:

Northwest Woodworking Studio

Oregon College of Art and Craft



### Guild of Oregon Woodworkers

c/o Bob Oswald  
40639 SW Vandehey Road  
Gaston, OR 97119

**We're on the Web!**

[www.GuildOfOregonWoodworkers.com](http://www.GuildOfOregonWoodworkers.com)