

OREGON WOOD WORKS

THE PRESIDENT SPEAKS

ARIEL ENRIQUEZ, PRESIDENT

You never know what's coming your way in life. Well, that's pretty much how it is in a woodshop too.

Last Fall a lady came into our gallery and made inquiries regarding the re-purposing (that's a new hip term, folks; it means recycling) of an obsolete upright piano. The instrument was a family heirloom and she's shared much of its history since it was purchased by an ancestor decades ago. Alas, its days as an instrument are over. Like me, that piano couldn't carry a tune. The fault lies in adhesives.

About a hundred years ago, when this piano was made (Birthplace: Paris, France) the standard adhesive for woodworkers was hide glue. Now hide glue can be quite stout and long-lasting stuff. After all, there's lots of woodwork made back in the Middle Ages still holding together over in the old countries. A piano however, adds a special strain

on the woodworking.

Now I'm not an expert on pianos so please understand that what I know about them comes only from dealing with them as they crossed my bench. Each one has been a make-over (hey another hip term) into something other than a piano. One held a pop-up flat screen TV. Two have been desks. Anyway, back to the adhesive problem.

The basic construction of a piano is that of a harp. A very big harp. There are 88 metal strings, kept at very high tension, stretched across a great big cast-iron harp. The harp, by itself, isn't what keeps the tension on the strings. Its main function is to provide the anchor points where the strings are wound. The required strength to counter the tension



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NEXT MEETING—WEDNESDAY—MARCH 16, 2011 7:00 PM

WOODCRAFTERS

212 Northeast 6th Avenue, Portland, OR 97232

Join us at one of our great sponsors, Woodcrafters, for a typical high value evening. Mike Plumber from Mohawk finishes will give a demo on Touch-up and Repair of finishes. Learn about some great products that make in-home repair easy. Burn-in sticks, fill and blend, touchup topcoats, background markers, graining pens. This 'workshop' will show you what products are available and how to use them.



Come as early as 6:00 for pizza . And be sure to thank our generous hosts for their wonderful treat.

Heading North on Grand, just past Burnside, turn right in two blocks onto Davis. 1 block to Woodcrafters. Parking behind the store is limited, so plan to park up to a couple blocks away. It's a short walk.

Board meeting at 5:30. Formal meeting begins at 7:00.

PRESIDENT (CON'T)

originates on the back side of the piano (underside in a grand piano) in a massive wooden construct. I call it the body.

The body is formed from very stout lumber (6" x 6" in one case) and joined in fine tolerances so as to present a very stiff mounting board for the harp.

The order of assembly is 1) the body gets made, 2) the sound board goes on the body, 3) the harp is installed and 4) the carcass is glued directly onto the body. It's that last process that presents the biggest challenge for the make-over because the original exterior finish must be preserved at all costs. We might go into that some other time. Back now to the adhesives.



Well now. You can just imagine the cumulative tons of tension placed on a piano's strings over the course of say, 100 years. The draw is inexorable, and sooner or later, the body loses one glue seam then another. Eventually it loses enough of them that the construct no longer holds its shape. When that happens the piano can't be tuned and so, for all intents, it's no longer a musical instrument. That's when guys like me get asked to make something useful out of them.

It's a good challenge and one I recommend to any woodworker. I'll share more about it some other time. Here are a couple of pictures taken during the last make-over. It was the best result yet. The next one will be better.

Keep your fingers!

WELCOME NEW MEMBERS

BOB OSWALD

Hello to Andrew Margeson, John Middleton, Bill Petty

We're happy to have you with us. Please introduce yourself at the next meeting. We'd like to know who you are.

NWS CLASS SCHEDULE

NORTHWEST WOODWORKING STUDIO

2011 Spring Schedule

Classes

Furniture Design Practices: Storage Solutions | Kate Gray | 5 Sun. starting March 27, 1-4pm | \$250*

Woodworking for Women: Garden Bench | Liz Meyer | 10 Tues. starting March 29, 5-8pm | \$475*

Woodworking for the Complete Novice | Zach Malcolm | 10 Wed. starting March 30, 5-8pm | \$475

Hand Tool Skills: Coffee Table | Jack Reynolds | 10 Thurs. starting March 31, 5-8pm | \$475*

Workshops

Mortise & Tenon | Jeff O'Brien | Sat. April 9, 9-4pm | \$150*

Sharpening | Jeff Zens | Sat. May 7, 9-4pm | \$150

Jigs for the Shop | Jeff O'Brien | Sat. May 21, 9-4pm | \$150*

Masterworks: Shaker Nightstand with a Drawer | Gary Rogowski | May 9-13, 9-4pm | \$750*

* Plus Materials

2011 Summer Schedule

June 6-10 Masterworks: Joinery Concentration Carcases with Gary Rogowski

June 13-17 Masterworks: Joinery Concentration Frames with Gary Rogowski

June 20-24 Hand Planes: Buying, Tuning, and Using with Zach Malcolm

July 5-9 Hand Tool Skills: Shaker Style Cabinet with Jack Reynolds

July 11-15 Breakfast Table with Gary Rogowski

July 25-29 Sheraton Tilt Top Table with Phil Lowe

Aug 1-5 Japanese Chabudai: Low Folding Table with Jeff O'Brien

Aug 8-12 Chair Design with Michael Fortune

Aug 15-19 Masterworks: Boxes & Containers with Gary Rogowski

Sept 12-16 Rogowski Stool with Gary Rogowski

Sept 19-23 Finishes and Finishing with Roland Johnson

VIDEO AVAILABLE

ROGER CROOKS

Roger Crooks has been manning the video camera at our meetings so you at the back of the room can get a little view of what's going on. Many thanks to Roger for doing that. An outcome is that he video tapes the guest speaker. A couple people asked about copies of the sharpening demo at Northwest Woodworking Studio. So for a first time, he will make a copy for \$3. That's bare bones cost and we may have to change that offer in the future. Contact Roger at 503-297-5647 or racrooks@comcast.net if you want a copy.

GUILD CLASSES

Google SketchUp

Instructor Lloyd Johnson
OHSU Main Campus Bicc bldg Rm122

Saturday & Sunday March 12th & 13th

9am to 4pm

Location: TBA

Class Size: 12

Fee: members \$45 for one day, \$80 for both, non-members \$60 for one day, \$100 for both.

The free version of Google SketchUp is a powerful 3D visualization and design tool with immediate application to woodworking, but many woodworkers don't know where to begin. This two day class is designed for users looking for a solid foundation (Day 1 - Basic SketchUp) and for users with some experience, and would like to apply more advanced skills to woodworking (Day 2 - intermediate SketchUp). Day 1 - Basic SketchUp covers a wide range of topics and skills from installing the software, navigating the user interface, using drawing tools and techniques, using textures & materials, working with images, to the vast Google's 3D warehouse resource. After the first day students will be comfortable navigating the applications and using its 3D tools and basic techniques. Day 2 - Intermediate SketchUp focuses on applying the foundational skills learned in Day 1 towards woodworking. We'll cover how to set up the software for woodworkers, design woodworking joints, and design furniture. We'll learn how to work from photographs of existing furniture to create models, learn some advanced modeling techniques, create cut lists and create full-sized templates. By the end of Day 2, students will be able to use the software to design and visualize woodworking projects. Class limited to 12 students, with priority given to students wishing to take both days. To sign up, contact: Eric Madsen eric.madsen@gmail.com (816) 729-5060

Vacuum Forming

Instructor Rob Lewis

Oregon College of Art & Craft

Saturday March 19th 9:00 am to 1:00pm

Class Size: 15

Cost: \$ 25.00 for members \$40.00 for non-members

Rob is the Wood Studio Manager at OCAC and has been working with wood and metal for most of his 40 years. This class will give an introduction to using vacuum bags and jigs for bending and veneering. Rob will also show how to use ordinary plastic sheeting in place of the expensive vacuum bags and use of fast setting glues. There will be a lot of unconventional techniques and tips covered. Contact: Eric Madsen eric.madsen@gmail.com (816) 729-5060

Build a Box with Bill Bolstad

Instructor Bill Bolstad
Bill's shop in Talbot

Saturday & Sunday March 19th and 20th

9am to 4pm

Class Size: 10

Cost: \$135.00 (includes materials) non-members \$155.00

Bill Bolstad will be instructing a 2 day class in building a small decorative mitered corner box in his shop in Talbot, OR. Bill has built and sold over 100,000 boxes in his career as a Professional Woodworker and has many ideas that he can share with us. You will leave with a box ready to finish. Class is limited to 10 students, materials are included, and bring your lunch and beverages. To sign up, contact: Bill Shockey ab7rn@arrl.net (503) 913-2072

Intermediate Woodworking

Instructor: Various Guild Members

Various Locations

First Class March 26th

Class Size: 7

Cost: \$175.00 for all 7 classes (Guild Members Only)

This is a continuation of the popular Basic Woodworking classes. In this series of 6 classes you will learn how to plan a project, proper use of bench tools, planing, winding sticks, cabinet construction, including doors and drawers, advanced joinery, Veneering, Marquetry, String Inlay, routers and moldings, and finishing. To sign up, contact: Gig Lewis giglinda@comcast.net (503) 646-7056

2011 BOARD OF DIRECTORS

Officers

President: Ariel Enriquez

Vice President: Gig Lewis

Secretary: Chip Webster

Treasurer: Roger Crooks

Committee Chairs

Membership: Norm Michaud

Meetings: Greg Kaufman

Shows: open

Communications: Bob Oswald

Education: Gig Lewis

General Member at Large: Jim Madras

Professional Member at Large: Bill Bolstad

POWER OF THE RUBBER BAND

LEONARD WORTH

I've decided to try to help fill in a few spaces in our newsletter from time to time with a few hopefully interesting tips directed mostly to those members in the guild that are sort of new to this woodworking stuff.

The rubber band, aside from the obvious use of light duty clamping like holding segmented slats together until the glue sets up, I always put them around clamp handles to keep them from vibrating loose whenever I'm working with something that vibrates a lot. For example, this would be when you clamp a straightedge guide to a piece of work while using a reciprocating saw, or a router. Usually just screwing the handles down nice and tight to begin with works well enough, but there's something about the mechanics of it all that makes the threads of the clamp want to unscrew all by their lonesome. This of course happens at the last inch or so of the cut, just enough to ruin the piece. The more treasured the wood your working with, the more likely this is to happen.

I discovered somehow a long time ago that if I

wrapped a rubber band around the handle of the clamp, then took a turn around the body of the clamp, then back around the handle, it stopped the handle from (rattling), vibrating loose. It works perfect for me and only takes a second. Any rubber band will do really (I like to use those big blue units that come wrapped around asparagus), and they don't have to be very tight, just one turn will do it. I do try to put the band on in such a way as to pull the handle clockwise, tight. Righty tighty, lefty loosy.



This even works on those Pony style C-clamps, or those cheap no name red handled clamps that *work* by way of a sort of rocking action. By the way, if you want to make those red handled things hold a lot stronger, try running both edges of the bar

(sometimes nickel plated) along a course wheel on your bench grinder the full length just to roughen them up. This causes them to have some real bite when you tighten them up. Don't forget the rubber band! Good luck, enjoy the guild.

Leonard Worth

undergrd@spiritone.com

ELLIPSE JIG

BOB OSWALD

I listen attentively to everything Lee Johnson teaches and have long been entranced with the ellipse. The acquisition of an 18-inch piece of Spalted Willow, re-sawed into four pieces and glued to a particle board substrate, presented the opportunity, an ellipse table.

Time to try out the Rockler Ellipse/Circle Router Jig. Screw the base to the back of your piece and install two pivots, simple. Set the router at the major axis extreme and lock down one of the pivots. Rotate to the minor axis extreme and lock the other one. Simple again.

The only disappointment was the loose fit of the sliding



dovetail blocks. For the \$89.99 price it should be more precise. Holding outward pressure on it worked around the problem, but you have to be attentive.

The main jig handles an 8" axis difference. An additional \$29.99 base extends the range from 8" to 14". Maximum major axis length in either case is a good 52 inches.

On an outside curve, touchup sanding is easy on a disk sander; an inside cutout would be more difficult.

All-in-all I'm delighted and looking forward to building the rest of the table.



MATCHING CURVED PARTS

FRANK LAROCQUE

I have a need to match curved parts to other curved parts. Like on a cabriole leg front to replace the damaged carving (s). The trick is to have a "saddle" type patch that fits the existing contours of the old leg without removing any excess wood and this makes the repair invisible. The only thing that could be seen is the very thin glue line between the applied patch and the hip on the leg.

Problem: How to exactly cut the inside of the new wood to match the existing curvature.

Solution: Use a very slow drying paint and touch the new wood to the old curve. Then carve away the spots where there is white paint.

Problem: Finding a paint that is really slow drying to provide a wet spot.

Solution: White oil paint that is mixed with canola oil. Available at any good artists supply. It takes days to dry and is the best I have found for this task.

Happy carving..

LaRoque On The Loose

LIBRARY PROJECT

BILL WOOD

COMMUNITY SERVICE WORK AND LEARN

We had a work party for the library project Saturday February 12, 2011. The "Work and Learn" session went from 10 am to 3pm. We milled the pieces that make up the 120 library shelves. One piece has a groove cut with the table saw dado. Other pieces had a bull nose placed upon the leading edge. Some bandsaw work to rough shape, followed by pattern routed.

We have until summer to complete this project, so we're taking our time and doing a great job, which is what the Guild would do anyway.



Contact Bill Wood at willm.wood@gmail.com if you want to be part of the next work and learn session.

WOODWORKING SHOWCASE

BOB OSWALD

Time marches onward, *rapidly*. The Showcase is only **two (2)** months away. Some of the finest woodworking on display in the Northwest. You could be among them. Not good enough? Wrong! I've seen the work of even our so called beginners. Makes me envious. So join in folks.

The Guild has three programs going: .

1. A venue for our members to sell their products. Booth space is available now in 10x10 ft. segments. The fee is \$400, due to Gig Lewis by March 1.
2. The annual Intra-Guild show, where your work is on display for the whole weekend. Ribbons and cash for 1st, 2nd and 3rd place finishers in each of the categories (Beginner, Intermediate, and Advanced). Your piece cannot be from a kit; it has not been shown in a Guild exhibition previously and it's not more than 2 years old. Entry is FREE! Security will be on site 24 hours
3. Local high school student competition, hopefully from several area high schools with active wood shops. These entries will have their own judging and awards.

CONVENTION CENTER

FRIDAY, APRIL 29, THREE DAYS

Volunteers

We will need some people to help staff the Guild booth. Four hour shifts, easy duty, a chance to be proud of woodworking and to show it. Contact Gig (below).

ACT NOW !!

Professional members, send in your fee. Call Gig to discuss a half-booth if desired.

All members, build an entry.

Teachers and students who this reaches, time to be heavily into your projects.

For more information and to sign up, contact Gig Lewis in Oregon at 503-646-7056 or giglinda@comcast.net

In Washington: contact Bob Vaughn at 360 254-3942 or bvaughn@pacifier.com

LAST MEETING: NWS & LIE-NIELSEN

BOB OSWALD

Tools, tools everywhere, and shavings flying high. It looked like the national Plane convention, all the beautiful examples of Lie-Nielsen craftsmanship.



Gary Rogowski

Gary kicked off the meeting introducing the always popular Northwest Woodworking Studio. Two of his mastery students had 'show-and-tell' pieces in the office that invited a tour after the main meeting.

Pat McGowan from Corvallis, a rep for Lie-Nielsen, gave a great, casual, entertaining and highly informative demonstration on sharpening plane irons. Admitting that even the Lie-Nielsen planes out of the box really need a little tune up, he proceeded to show us how. In the case of a new plane it's usually just adding a micro-bevel to give it the final ultimate in cutting power.



Pat McGowan

A few stories about poorly sharpened irons from other experiences led us into the way to recover a poorly sharpened blade.

First, if you have a nick in the iron, just grind the end square, below the nick. Don't mess with sharpening at an angle until you've eliminated the nick.

It starts with two strips of sandpaper glued to the workbench, relatively flat as Pat said. A strip of 80 adjacent to a 180, although it really doesn't matter just so they're reasonably different. Setting the blade angle on an obviously time-worn alignment jig, to twenty-five degrees, he lapped the irons on the sandpaper using the traditional roller-wheel jig to hold the angle. Twenty



Earl tries one

to thirty strokes on the coarse, then repeat on the fine. Something strange happens when you switch paper, going back and forth, coarse to fine to coarse; it cuts better. About two minutes of lapping had the badly formed edge straightened out with still a trace of a prior micro bevel.

After the demonstration, everyone enjoyed wandering around, touching and trying all the tools. A few purchases were made, satisfying finally a desire to own such a fine piece of hardware.

Thanks very much to Gary, to Pat and to Lie-Nielsen for a wonderful evening, well exceeding expectations as usual.



Set the base angle (25)



Shape the edge on two grits



Set the micro bevel angle (30)



Lap the micro-bevel



De-burr the back (notice the ruler)



SHOW & TELL: MASTERY

GARY ROGOWSKI

Kent Saunders and Jim Parker are second year students in the Mastery Program at The Northwest Woodworking Studio. They both had pieces on display during the Lie-Nielsen Hand Tool Event this past February. As with all Mastery projects, the type of piece is chosen by the Director, Gary Rogowski, but the design is up to the individual. Gary and each student work on a design and methods for construction with each piece. This way students learn about both design and construction techniques as they build nine pieces over a two year period.



The start of Year Two requires a table with a drawer and a curved cabinet. Kent made a gaming table with full length drawer and a reversible gaming top for chess/checkers and domi-

nos. [pictured] Jim made a solid Oregon walnut desk with drawer. Both made coopered door cabinets that are wall hung.

These pieces demonstrate a fundamental philosophy about furniture design at the Studio. Woodworkers are encouraged to explore their own style as they learn about designing and building work. The Studio does not look for makers who want to copy a style but for ones who want to develop their own. As the Mastery Program enters its 11th year, the Studio continues to teach students of all ability levels to discover their own potential as furniture makers.



In the shop on a day like today! 2/22/11

MAKERS AND MAGIC

BRUCE PALAMOUNTAIN

G, for one, joined the Guild after John Economaki's last appearance (2006), and would be pleased to hear about him again. Plus - no surprise - he has come out with some exciting inventions since that time. Just off the top of my head, there is the "Kerfmaker" the "Tenonmaker" and the "Jointmaker" (Makers', Makers'... Why do I crave an expensive whiskey?).

I would go to great lengths to own maybe half his catalog, but the only item I can afford at this time is the "Tenonmaker".

Oh, Busty Budget Goddess! I offer thee scraps of burnt cherry and essence of Yakima hops. Grant that the eagle-eyed female companion shall have a fleeting myopic moment! Oh, smile upon my selfish and arcane expenditure!

On another vector, I found some woodworking videos by this guy named Matthias Wandel on YouTube, and it seems he suffers from the woodworking affliction. ;-)

<http://www.youtube.com/user/Matthiaswandel>

See what you think. I wouldn't have bothered you with the videos but for the fact this guy has a mind that functions in similar manner to a Tiger Tank.



My own two cents is: You can solve a woodworking challenge many ways, and what works for you is the best solution. Having said that, two thoughts remain. a) Whoeee! This Matthias guy goes the c-c-c-complicated route. b) He is bona-fide genius and a meticulous craftsman; so I cannot ignore his work without first looking it over. Merely a passing glance at the "snapshots" of his plans engenders respect ...even if he is building a Ferrari where a skateboard would do!

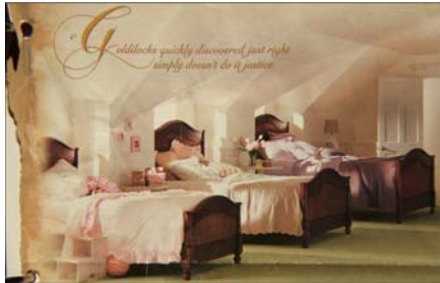
Ed: Two points: 1) Thanks to Bruce for suggesting Bridge City Tools as a future meeting place and topic. It's in the works for mid summer, and 2) I'm a techno-geek and loved the video. It did inspire some solutions for my future. You must check into this one.

REACHING BEYOND

BOB OSWALD

I can't say that woodworking has become ho-hum casual. In fact, I *definitely* can not say that. But having built a number of pieces over the last couple of years, it's getting a lot easier. However, the latest project is a radical deviation from the more typical mill it, shape it a little, glue it together kind of projects to which I've become accustomed.

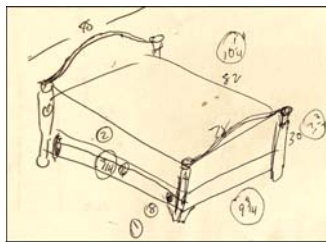
It's the first project to go totally beyond my bounds of comfort, my knowledge base, in so many areas. And yet each part taken individually, not only doesn't seem all that daunting, there's an enthusiasm to try out some new ideas. Part of the enthusiasm comes from curiosity (segmented turning), part in being a first time attempt (torsion boxes) and part, a one time marginally successful attempt on a prior project that needs to be improved (bent lamination).



Ironically, in this design, they all come together in a single project – a segue from traditional milling and joinery to a single project involving a whole bunch of new areas of woodworking - segmented turning, torsion box, bent laminations.

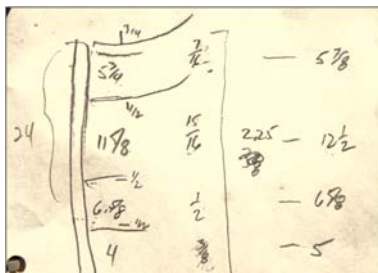
Add to this a totally original design from a difficult to interpret magazine article about carpeting.

The first phase this month has been to scratch out the design, both the appearance and the construction approach. That effort involved trying to dig details out of the photograph. Ultimately a good scan into the computer and the use of Adobe Photoshop to enhance the picture revealed enough details to begin design.



Setting overall proportion

Overall dimensions come from measuring my own mattress and then scaling from the photo, a perspective view, to the orthogonal world



Scaling from photo

During the process, a fair amount of SketchUp was used, piecing ideas together to see how they would fit. Better than paper and pencil, you can rotate and resize quickly, positioning pieces of the project together in living 3D.

Scaling was done using the bedpost in the photo, having determined that the final footboard bedpost would be 32 inches tall. The vertical scale in the photo is least affected by vanishing perspective, if you stick to *one* bedpost, and remember which one you started with.

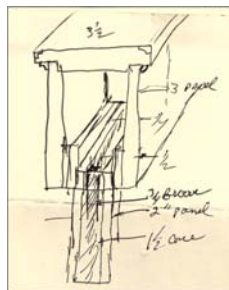
Two models became essential. The first a simple one-eighth scale overall look to be sure that the general look and feel matched my wife's intention. Then a full size model in cross section, of one post and the cut-away footboard. It was *really* fun building the model as it went together quickly to prove concept and looked remarkably life-like.



You should try models. Look at the turned leg in the photo.



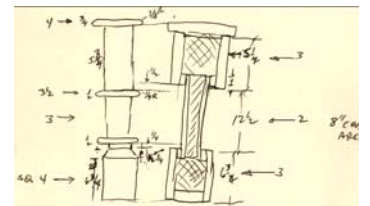
A block of 4x4 and maybe an hour on the lathe, not worrying about making it really pretty, but more than enough detail with enough accuracy for later use to test dimensions, to get the idea.



The basic plan

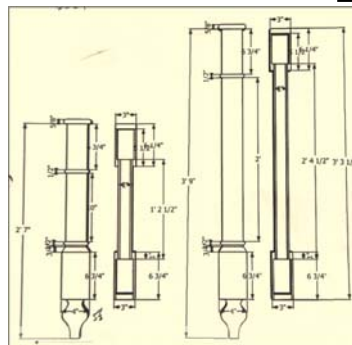
So this month's look is about the design process, prototyping and thinking about construction approaches.

The scaled sketch turns into a rough design of the least understood areas, the basic plan. That's followed by detailing out the dimensions.



Detailed dimensions

Finally, putting it all together with SketchUp makes sure that things will



To a SketchUp rendition

fit where they are supposed to. You build the components in SketchUp just like you would in the shop, piece by piece, assembling them as you go.

Next month I hope to share some of the lessons yet to be learned on this project.

Classifieds

WANTED: SHAPER PARTS

LEONARD WORTH

Guild member Leonard Worth is looking for parts or information on a Rockwell model 43-350 or there-abouts shaper. Would like to purchase a 3/4 inch spindle shaft, (will trade for 1 inch shaft), also would like an owner's manual or to just borrow a manual to copy the important pages (blow-up etc.). It's about a 1980's something model. Any information on this machine would be greatly appreciated. 503 231-5777 or undergrd@spiritone.com

TOOLS FOR SALE

TOM

(1) Hitachi C10FL table saw with an Incra Miter 5000 unit, and two additional 10" carbide tipped blades still in the original package. \$300

(1) Grizzly G0532 Dry Spray Booth, with a Kidde dual tank fire suppression set up for the spray unit itself, and an additional area of approximately 80 square feet with ceiling mounted heads. \$1700.00

These items have been used very little and are less than three years old. The equipment needs a good home and is being offered for sale at less than half of the purchase prices.

Contact Tom at (503) 779-5249 or teh@lifetimeimpact.com for info, photos or appointment. Equipment is located in Gates, Oregon.

ART WALK

BOB OSWALD

Portland Open Studios conducts a tour of individual studios & shops throughout the Portland area, mostly artists but a few woodworkers as well. It's an annual event taking place the 2nd & 3rd weekends of October and the deadline for applications is March 15th.

It draws a couple hundred visitors to each studio/shop and is a good venue to generate custom orders.

Perhaps a few of you woodworkers could join together to share the costs and displayed your work at one shop.

Visst this website for more information:

www.portlandopenstudios.com

SHARE WOODSHOP SPACE

HAMILTON BYERLY

Approx. 40 x 45 - 1800 sq. ft. Close In Southeast Portland Location. Available March 1

2 Table Saws, 8" Jointer, 15" Planer, Drill Press, Large Compressor, Chop Saw, Spindle Sander, Dust Collection, Mortising Machine, Heated, 3 Phase Power Available

Rent: 1/2 Of \$1,250 Plus Utilities For Two People (Will Consider Adding A 3rd)

Contact Hamilton Byerly (503) 310 - 0614

ESTATE TOOL SALE

PRIVATE—NO AUCTION

Jet JWBS18 18inch woodworking band saw floor model Craftsman Oscillating spindle sander with many drums

Grizzly Tools

- ◆ G0645 Wood mortising tool
- ◆ GYF 624 Universal surface grinder 6 inch with stand
- ◆ G 1182 Jointer 6 inch 110v
- ◆ G 1495 Wood lathe 110v with gouges
- ◆ G 1029 Sawdust collection tank and bag 2hp 220v
- ◆ G 1066 Drum sander 24 inch 220v conveyor belt (not working)

Delta Tools

- ◆ 31-050 Belt sander 1 inch
- ◆ Unisaw 10 inch table saw 220v with Laguna sliding table
- ◆ Unisaw Unifeed
- ◆ Unisaw table and shelf on side

Assorted

2000 JDS Dust Filter Air Tech
 Fein MSx636-1 Sander Tool
 185 Chain saw sharpener
 3901 Biscuit cutter/ plate jointer with case
 1900B Power planer with case
 3600B Router, heavy duty
 BO 4510 Finishing sander
 UC120DWA Cordless 4- inch chain saw
 2900 Wet stone sharpener
 HCT 30 Hand Craft Wood carver
 7310 Black & Decker Circular saw 7-inch
 1910 Skill Scraper/carver
 2x422 Dayton Step on start/stop switch
 Dremel Jig saw
 Toro Leaf Blower/vac
 Stihl 021 Chain Saw/Acc.

Many other miscellaneous things

Contact Kent Moulton for additional information and appointment time to view above, located on Sauvie Island near grocery store.

Home phone 503-543-6979

Cell phone 503-803-3813

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 meetings*
- *monthly newsletter*
- *mentoring program to help members develop their skills in specific areas*
- *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

P.O. Box 13744, Portland, OR 97213-0744

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Guild of Oregon Woodworkers

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