

# OREGON WOOD WORKS

## TOYS DELIVERED—ANOTHER GOOD YEAR

MARCUS FLANDERS

I want to thank all of you who helped out with the building of the “Christmas Remembrance Toys” this year. We had around 90 built, and were put on display at the Guild holiday dinner. We delivered them to the KGW Studios on Friday. Thank you Chris Frazier for helping out. They were received with open-arms, but unfortunately, all the cameras were out on assignment, so we didn’t receive any air-time. That didn’t matter to us though, because they were amazed at the craftsmanship of what we had accomplished, and they wanted to thank you all for your efforts.

Most noticeable to Chris and me was that there were literally thousands of toys there piled high in their warehouse. The only ones that were not plastic, and made in China, were the ones built by the Gaston High School wood shop, and our Guild. Sometime this week, over 130 agencies around the Northwest, will deliver these toys to needy families.

I feel that its is our duty as Guild members to share this amazing craft of woodworking with others, and one way is to help build toys. Our society is being over-run with cheap, plastic toys that will be used once and discarded. There is something magical about the feel, taste and smell of wood, and kids can tell the difference. My step-daughter says

that her son still loves to play with the Hippo that I made him over a year ago.

Most everyone who attended the dinner last Thursday were recognized for their efforts, but those who did not attend the dinner and who made toys are; Glen Seim, Dale Marion, Dale Price, Chuck Wissler, and Neil Gribskov. Neil was unable to drop off his toys prior to the dinner, so he delivered them to the studio on Friday, twelve in all, which brought our total to over 100. Other members who made toys are: Jim Spritzer, Roger Crooks, David Wiper, Chris Frazier, Gig Lewis and me. I hope that I didn’t miss anyone, so please let me know if I did.

Thank you again for all of your amazing efforts.



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**NEXT PROGRAM — THURSDAY, JANUARY 8, 2015 6:00PM**

## **GOLDEN WEST BILLIARDS**

**5505 S.E. Johnson Creek Blvd., Portland**

Golden West Billiards, MFG. is a family owned and operated company which started manufacturing in the late 1960's. Their products are sold worldwide, and the main reason for their success is their quality control.

They are the ONLY pool table manufacturer that does all our own designing in-house. They have been the industry leader in product design, with many patents granted them over the years. They are the ONLY pool table manufacturer that does all laminating, wood turning and carving in-house.. They are extremely proud of their detailed work and state-of-the-art finishing department and all of this will be seen on a tour of their facilities on January 8, 2015. You will also get a chance to play on a fantastic pool table.



South of Powell on 99, exit to Tacoma St. Loop clockwise onto Tenino St. Proceed East as the street merges into Tacoma, 32nd avenue, and Johnson Creek Blvd. Turn right to stay on Johnson Creek Blvd. From southbound on I-205, take exit 16 Johnson Creek Blvd. Go west about 2 miles.

## GUILD HOLIDAY PARTY

ROGER CROOKS, ARIEL ENRIQUEZ

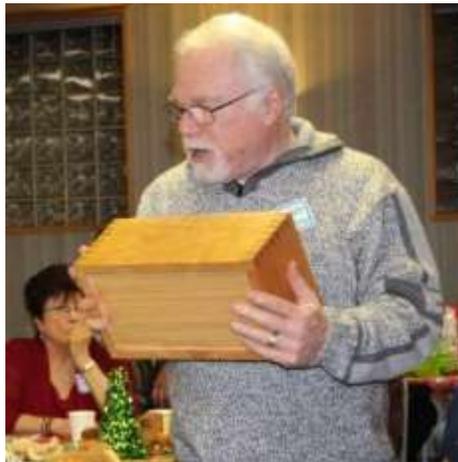
The Guild 2014 holiday party was another great event. About seventy people braved one of the biggest wind storms in the last 20 years to enjoy great food, drink and desserts. Thanks to Jenny Jecman (she gets the best dressed award) for her organizational skills for the 5th time (and who is looking for a replacement next year) and Jim Madaras for organizing the party and to Ariel's now fa-



mous punch, and the many snacks, desserts, and main dishes brought in by members.

The traditional gift exchange again showed the talents of our members and ranged from a large piece of natural edge white oak board (my guess at an ironing board was wrong) that could be made into a bench (we want to see the results) to a pound of beeswax, boxes, games, turned pieces and so on. Truly a fun event that everyone should plan to participate in next year.

Also this year we brought all the Christmas toys together at the party and put them out on the tables for all to



see and play with. We had planes, boats, drag racers, Ping-Pong ball guns and other unique and cool gifts.

Chris

Frazeur provided more of his heirloom trucks and Jim Madaras provided stools and cradles from the Guild project build team. Marcus gathered them all up and delivered them to KGW the following day. Marcus, in his eloquent way, thanked those who made toys and were at the party, encouraging a July start next year.

The annual Lee Johnson Woodworker award was presented to Ray Curtis. See following article.

We had a special guest this year - Shirley Gottwald - who provided the Guild with beech lumber that was used in the dressers community project. Shirley is one of a handful of national distributors for Pollmeier Lumber, a family owned company in Germany and a leader in value added European Beech. See the following article for more details.

Ariel presented her with a gift certificate to McCormick's as a small way of expressing our gratitude.

### Pollmeier Lumber donation

Back in 2012, Joe Sanders, a Guild member and a good friend of Shirley, wanted to get involved in the Christmas toys project. He asked Shirley if there was some way he could get some scrap wood from her business to make a few toys. Shirley is a part of the five person team responsible for sales and marketing of Pollmeier European Beech in North America. The North American sales office is located in Portland. She offered to check with her local distributors and get back to him.

You should know that when distributors move lumber, they do so in units. It's not uncommon to deal in lots of train carloads, who then work through folks like Hardwood Industries or Crosscut Hardwoods.

Shirley learned of a unit in Texas that had been rejected by the customer because it had gotten wet during transport, staining some of the boards. On hold for over a year, they were anxious to move it. We could have it for the cost of shipping. The result was a 1200 BF unit of cabinet beech lumber (grade 3 of 12). A \$785 trucking charge led to less than a dollar a board foot.

We made a lot of beautiful dressers with that unit. IT also produced a number of toys for that year's project.

Additional needs to finish the Open House Ministries dressers required a bit more lumber. Through Shirley, the folks in Germany, impressed with this Guild community project, provided another unit at cost.

Shirley, thank you so much from the whole Guild for your dedication and efforts to this cause.



(Continued on page 3)

(Continued from page 2)

## Woodworker of the Year

The annual Lee Johnson Woodworker of the Year award was created by a friend of Lee Johnson when he passed away in 2011. Through a donation to do 'something' to honor Lee's tireless efforts for the Guild, the board established a fund to perpetuate this award. It would be given to a person who went above and beyond the call of duty throughout the year in some service of the



Guild.

It is always a challenging decision, but this year, without hesitation, Ray Curtis was an easy choice. President Gig Lewis made sure that Colleen, Ray's wife, was given credit and acknowledgement she also deserves for the time that Ray spent this year making the shop the success it is.

Ray accepted the position of chair of the Tool Committee in 2013. He is at the shop several times a week, doing maintenance, installing something or another, coordinating work parties, the list goes on. He spearheaded the procurement of our three new large machines to replace the tools we had been renting but were not suiting our needs adequately.

He was heavily involved in procurement and installation of the new sliding table saw, wide belt sander and industrial jointer, saving us money over what we were leasing. He coordinates and even picks up donated equipment.

Above all, Ray has the patience of a saint. Working through issues, decisions, choices that do not always have obvious solutions involved a lot of discussion with the Board of Directors and committees. Debates were frequent and Ray always presented logical arguments and helped guide us all through the process.

The shop would not be what it is today without Ray's tireless dedication. Thank you Ray, from the Board of Directors and every member of the Guild.

## SHOP TOURS COMING

GIG LEWIS, PRESIDENT

Holiday greetings to all of you. Hope that you have nice memories from 2014.

The Holiday Party was a great success and I have a couple of ideas from the party to activate. Someone suggested that we have a tour of member shops. This would give newer woodworkers ideas on how to design their own shop, get ideas about tools, and to learn a little bit about our other woodworkers.



For the first **Spring Tour** of shops we will start with a tour of our four main geographic areas. The first will be on April 4th, 2015, from 9 AM to 2 PM. We will have tours in the Vancouver area, Salem area, and the East and West sides of Portland.

I would like someone from each area to volunteer to coordinate their home area. We will also need to have volunteers to exhibit their own shops. I know none of us have the shop that we want to have; they are all too small, are weird shapes, and we only have old tools. That is great, that is how we all got started and have managed to make nice projects. None of us have perfect shops, and many members are interested in visiting other members' shops to learn and to ask questions. Let's do it. Give me a call at [503-646-7056](tel:503-646-7056) or email at [giglewis42@gmail.com](mailto:giglewis42@gmail.com). If you have questions or more ideas, let me know.

## WELCOME NEW MEMBERS

BOB OSWALD

Welcome to all of the following new members in chronological order:

Tanya Henson, Ady Oren, Joseph Cote, Joanne Delmonico, Greg Dermer, Brian Kelly, Sas Quinn, Donald Duncan, Aaron Hulse, Tally Locke, Barbara McLean, Kelly Boyd, Jerry Martin, Ned Chastaney, Debby Booher, Raul Villarreal, Mark Fisher, Evaleen Hu, Nathan Holtorf, Sara Farrell, Jeff Nichols

We hope you'll make a regular appearance at the monthly programs. We're happy to have you with us. Say hello to an officer at the next meeting so we can get to know you.

## NEW TO WOODWORKING SIG

BOB SOKOLOW

The next New to Woodworking SIG (for beginners and all levels) will be at the Guild shop on Wednesday January 21, 2015. Chris Mason will give a demonstration of a CNC router.

Please join us and bring questions, ideas for future meetings and something you have built for show and tell.

## GASTON HS BUILDS TOYS

### BOB OSWALD

From Wade Sims, shop teacher at Gaston High School

*“My engineering class and junior high class are both making toys (wooden marble block mazes) for the KGW toy drive. Our engineering students engineered the blocks using computer aided design and then made prototypes to then build. The junior high students are using the engineering students designs and mass producing the marble toys.*

*These kids do good work, part of the Career and Technical Education program. We are going to be donating through the Guild of Oregon Woodworkers, whom I know donate every year to the toy drive.”*



*Oregonian photo: sanding the blocks*

Two classes combined under the guidance of teacher Wade Sims to build toys for the KGW Toy Drive this year. Thumbing through toy catalogs, he chose a marble toy run, a game where you use building blocks with holes and chutes to



*Oregonian photo: sewing a lot of bags*

guide marbles from a high starting point, clunking though the maze to the finish.

His engineering class was learning SketchUp, so they went to work designing the various components. After a few

trial tests they had a set of plans to turn over to the eighth grade woodworking class. Each student was assigned to build a set of 20 pieces, and their grade for this project depended on completion.



Four seventh grade girls took up the task of making bags for each toy set, forty in all. Thanks to the home economics teacher for adding that touch.



KGW television and the Oregonian visited the classroom shop to interview the students. A nice feature aired Tuesday, December 2. The Oregonian did a follow up article on Thursday. Forty sets of toys were delivered to the KGW studio on Friday, December 12, 2014.

I had the privilege of “helping out” in the shop during construction. These young people did not need any help. They were on a roll, excited about helping someone else.

Good work, kids!

# TRAVELING CLASSROOM

BOB OSWALD

A dream of Sherwood High School teacher John Niebergal came true this year. He's had the vision for years of a mobile classroom, taking some aspects of the education process around the state of Oregon to students who don't have the same resources. Sherwood has, for years, led the pack in teaching high tech shop skills, expanding their normal wood shop curriculum. This includes 3-D printing, vinyl cutters, laser engravers and 3-D scanners. Most require computer skills to create images and control the equipment that produces parts.



John Niebergal

John applied to the State of Oregon for a grant to pursue this venture.

One was granted this year, including enough funds to procure forty vinyl printers pictured here. John's plan is to leave a



CNC vinyl cutter

printer with a number of the schools he visits during the year, schools where their funding has not provided for such equipment.

He travels in a large motor home, the Sherwood Fab Lab, which transports multiple copies of laptop computers, printers, all the tools for this adventure. He lives in the motor home saving the expense of hotel



bill. So his salary and a little food and parking allowance for the RV are the only expenses shared by the school he is visiting. The payback for the school is acquiring a vinyl cutter worth ten times the cost of his presence.

John started the summer on a trial run, visiting schools he knew well, Hermiston Sutherland and others, to practice the concept. Working out a few logistics bugs, he was ready to hit the road when school season started.



Imagination is the limit

The plan was to teach in the RV.

A few logistics de-

tails like power hookup, a safe parking area and space to accommodate large classes has brought him inside the classroom in many cases. I visited the class today, sizes ranged from five to thirty students. It works very well. John's pleasing personality, dynamic presentation style, commanding presence and decades in the classroom teaching high school has the focus and attention of the students.

Today John was at Gaston High School with a program to teach all six periods of shop for the whole week, with a focus on the vinyl cutter. The medium isn't as important as learning to use Rhino. Given that skill, they can control most any machine to make parts.



It's all about computers

John has used a number of CAD programs but given the choice prefers Rhino. It's flexible and capable drafting program and it is the control source for many CNC routers, printers and engravers.

One application of vinyl cutting is making decals for sale. school logos, mascot, sports teams, all are images that adorn lunch boxes, the back window of a pickup truck and where ever your imagination takes you.

Today's kids have all grown up with iPads, iPhones and computer games, so it's pretty much second nature for



A teaching moment

them. They learn fast. And they are very creative with their artistic ideas. It's exciting to listen to John tell the students about application ideas, making money doing

some thing productive with this new skill. The kids are learning business too!  
Congratulations and best wishes on a long journey, John. Your vision is a tribute to what education can be.



Gaston Greyhounds logo

## STEAM OR LAMINATE

BOB OSWALD

I'm having my usual trouble with a bending project, probably in part because of the aggressiveness of the bend. The project is four curved legs for a little oval end table. The legs will rough out at 1x3/4" cross section, 30" long to allow shaping to an oval cross section.

Despite having taken a good steam bending class from Gordon Keller a few years back, I have avoided doing all the setup necessary, primarily in a bending jig and/or straps to back up the bend. A test with full size pieces, 3/4x1", resulted in all of them breaking when pulled around the form. I guess it's shame on me for not doing it properly, but some metal barrier stands in the way.

Lamination bending has always worked well for me. However, because of the aggressive bend it will require very thin pieces. Daunted by too many to cut and a tremendous amount of saw kerf waste, some other answer was required.

A cup of coffee, a glass of wine, sitting and thinking produced a 'novel' idea. Steam bend 1/4" pieces and then laminate them when dry. It seems like extra work but it went surprisingly fast. The steamer, a piece of 4-inch PVC instead of the clunky box originally built, cooked them off in less than an hour, a handful of sticks. Reaching inside with gloves for the first batch finally lead to just dumping them out on the ground. It's HOT in there.



They bent around the form just fine, stacked four deep to save time. Dry the next day, the glue-up



went well. The mostly pre-bent pieces were easy to conquer. Holding up the first finished piece

resulted in a great dismay of discovery. *There was no spring back.* Because the pieces were pre-bent, there was no stress in the glue-up. The form had been designed for 20% spring back, originally planned for a full size bend.

Another prob-



lem, another solution. Build a second form with the correct radius. Using the original aggressive form for steam bending and the new flatter form (pictured here) for gluing worked perfectly.

Intelligent approach? Probably not, but it allowed a persistent personality issue to cope with some persistent wood and achieve results.

Work proceeds on shaping and mounting on the table. It's turning out to be another daunting task. Hopefully you will learn next month how that turns out.



## TO USE THE GUILD SHOP

BOB OSWALD

The Guild shop is becoming a popular place for members to work on their projects. Usage rate is slowly increasing, but there is still plenty of capacity.

### How do you get to use the shop?

It's spelled out on the website under Our Shop choice, called "To Use the Shop". There is a process centered totally around safety. An early decision, born out by experience, was that not just 'anyone' should be able to walk in and freely start using equipment. You know that woodworking tools have their hazards. It is paramount to the Guild that everyone who uses the shop enjoys the experience, that no one is injured. To that end, the process described on the website was created and is refined as needed. In being thorough about the process it seems daunting to some readers.

Here it is in simple terms

1. Register for and participate in a free Safety Orientation
2. Register and pay for a hands-on 'test' to demonstrate that you can safely use all the tools. Successfully passing will get you a shop membership card, called a Green Card. This class fee will be credited to your first shop time purchase.
3. You can then buy shop time on the website at your convenience.

If you need training on tools to pass the hands-on test, you can get that anywhere you like. The Guild does offer Machine Skills classes in all categories for a reasonable fee. See the website to register for one you might need. All events are listed on the website under Classes. If you don't see one you need or want, contact the Education Chair, Chip Webster. He's on the Board of Directors on the website.

## SHOP TIPS

JAY JOHNSTON

### Elastic hair bands

Office-type rubber bands have often dried up and broken on me. Instead, I now make liberal use of zip ties, Velcro rip ties, and even pipe cleaners and dental floss in the shop. For applications where a stretchable band is required, I now use elastic bands like those used to gather hair into a pony tail. The Dollar Store sells them in packs of 100 for (you guessed it) \$1. Not one has broken on me yet.

### Orthodontic bands

Latex orthodontic bands have proved to be durable substitutes for rubber bands when securing narrow objects. Hair bands aren't as convenient in these applications because of their relative thickness. The orthodontic bands are surprisingly stretchable; the 3/8" size expands beyond the circumference of a 12 oz. can. They are quite inexpensive.. A100 count bag on eBay for under \$5 with free shipping.

## PLANT TREES, MAKE LUMBER

DON CLINE

Looking for an outdoor volunteer opportunity this winter? Come join us in restoring 10 acres of the South Riverboat Unit at Tualatin River National Wildlife Refuge! The target is for volunteers to plant nearly 13,000 native trees and shrubs, which means we need your help to reach this ambitious goal. Planting work parties are scheduled for every Saturday and Wednesday from January 10 to March 28, 2015. There is also a training on January 7 for people interested in being volunteer crew leaders. The South Riverboat Unit of the Refuge is closed to the public, so this is a special chance to see this unique property that borders the Tualatin River. Please visit the project web page

(<http://friendsoftualatinrefuge.org>) for full information, and we hope to see you out at the South Riverboat Unit this winter! Tualatin River Keepers

## SHOP UPDATE: BENCH VISES

JEFF ZENS

### You Spoke - We Listened!

Creative Problem-Solving Case Study

For months, evaluations from several Guild classes have pointed out perceived shortcomings in the Guild shop's workbench vise installation. Students expressed difficulty with the vise positioning and with the Homasote® material used as liners for the metal vise jaws. Those of us involved in offering classes took these comments to heart, and this month, resolved the problems.

There are a lot of stakeholders, each with a slightly different focus, in this Guild. For example, Ray Curtis, our shop manager, is responsible for all aspects of shop operation and maintenance. Bill Bolstad designed the benches. Dennis Rodrigues and I teach a lot of hand-tool skills classes. To ensure that we didn't cause new problems while solving this one, we met with Bill, Ray, Norm Baird, Chip Webster and others to solicit their input and assistance.

We agreed that the project should go forward, but Ray's busy shop operations schedule precluded him from taking the work on himself. That's where the problem-solving point of this exercise comes in. Once the necessary approvals were obtained, several of us got together and got the job done.

Using scrap pieces of beech lumber, replacement wooden jaws were fabricated, and on December 16, they were

installed. Dennis, Michael Rothman, Doug Campbell, Rick Alexander, Richard Rohrbaugh, Darell Duffy and I worked at it throughout the day. In addition to installing new vise jaws, we repositioned several vises on the benches, equipping each bench with a shoulder vise and a tail vise. We now have one bench equipped specially for southpaws! Michael Rothman bored dog holes for the new configuration in the bench tops, as well. Ray is going to purchase a set of bench dogs and hold-fasts for each bench, making them much more capable of secure work-holding for both hand-tool and power-tool operations.

### Problem-Solving, Part II



The second part of this operation will be fabrication of a dead-man for each bench. That effort is in the planning stages as the newsletter goes to press, so watch the Guild's operations calendar and class schedule for this announcement. We're going to offer this class for free - and supply lunch - in exchange for your work. We're going to use the machine room to prepare stock for these items, but all the joinery will be done by hand. Having made more than one dead man for my own shop, I promise you that it isn't that difficult. Some sawing, some drilling, a bit of chisel work, and a few strokes with well-tuned hand planes

will get us to the glue-up stage.

There are about five hundred members in the Guild, and around one hundred who play active roles in keeping the Guild running - shop attendants, officers and members of the Board, the Education committee, instructors, and so on. This "class" is a great way to add your name to the list of problem-solvers in our Guild - and to hone your hand-tool skills at the same time.



# THE SHOP: ANNEX STATUS

RAY CURTIS

December was busy with lots of users in shop working on Christmas presents. A number of people from the Next Level users class reworked our bench vises. See related article. Roger Crooks turned some wooden bench dogs and I have about 40 aluminum dogs on order.

I got a number of questions about the status of the Annex. We have moved a number of items into the annex but do not yet have shelves for organization. We do have chairs, and some open space so a couple of committee meetings have occurred there allowing use of the shop at the same time. We have installed a Max/Min thermometer and a dehumidifier to monitor the environment

We now have a space dedicated to donations and user sales although it needs shelves and a display counter. Some of the area is being used for storage of OHM community project, Product Build Team, meeting supplies and chairs. The landlord has moved his wood from the shop so we can start building shelves for the Library. I am planning another Shop Work Party on the evening of Wed. January 7th, so please feel free to join us.

One last item, Patrick O'Neil has requested his drill press be returned, so we bought a new Delta 18-900L drill press. It will be assembled, and installed by early January.

I hope that you get all your projects



done on time, and has a very Merry Christmas, and a Happy New Year!



# TOY LAND, JOY LAND

BOB OSWALD

Christmas is a favorite time of year for its own reasons. Besides the special significance, it's just a happy time. Lively music, brightly colored lights and helping others. A number of years ago I discovered the magic of my wood shop when I returned to it in the basement of my house. The overhead lights were off but several small auxiliary lights on the tools were lighted. I turned them all on, leaving off the overheads. What a beautiful sight. It makes your tools look warm and cozy. It's just a warm and friendly feeling. So I have to remind you all, especially all the new members of this past year, to take a look. Enjoy your world in a special way, no matter where it is located and how big or small it is.



# "IT'S NOT WORKING"

BOB OSWALD

We get quite a few queries from people having trouble trying to use the website. Registering for classes, trying to change personal information, billing questions.

In a very large number of these cases, it turns out to be not having logged in, despite adamant claims that "I WAS logged in." When I have the occasion to help someone on the phone, which is not often but always welcome, I usually get an "Oh... (silence)...now it's working" and an admission that they thought they were logged in. Most of the time we catch it in a quick email note, not requiring a phone call.

Be assured that your website manager (me) always welcomes questions from people having a problem. It's what I do, so while I don't need the phone to start ringing off the hook, don't hesitate to write or call.

How do you know you are logged in? One bullet proof way is to look at the menu on the left side. If you see "Members Only", you are logged in. If you don't, you are not!

See the Administration tab? You can't. That's data that helps the website managers.



# PRODUCT BUILD UPDATE

ED FERGUSON

The Product Build Team is wrapping up the doll cradles project. We donated 3 cradles and 2 step stools to the Guild's Toys for Tots collection at the Christmas party.

We've selected end grain cutting boards as our next product. We haven't settled on a pattern yet. There's an unlimited range of pattern options for cutting boards, from relatively simple to very complex. If you go to Google, you can see some pretty interesting YouTube videos on cutting board construction. We'll be finalizing our design at our next meeting, which is scheduled from 1:00-5:00pm on Wednesday, January 7th. All hands are welcome.

## NEW PROFESSIONAL PLUS MEMBERSHIP LEVEL

LARRY WADE, MEMBERSHIP CHAIR

We've added a new Guild membership level called Professional Plus. This feature is analogous to the General Family membership, where for a small additional fee of \$15, Professional Plus members can add up to two additional employees (not unaffiliated friends) as Guild members.

All other benefits of this level are the same as the Professional level. See the Guild website Summary of Benefits under the Membership menu for those details.

Each employee would have their own log-in capability, which requires them to have a unique email address, not yours. You, as the administrator of the group membership, called a bundle, must create their account. Under your own

profile will be a button that guides you to add an employee

Email addresses are the unique identification of each member in the Guild website database, so there can be no duplicates.

The advantage of an employee tagging along under your employment is that they are issued their own membership card and have all the privileges of other members. They can register for Member Only education classes, and they qualify for discounts at our participating sponsors.

Contact Larry Wade, Membership Chair, at larrywade@comcast.net if you need help applying this feature or have questions.

## TOY TRUCKS FOR ADULTS

BOB OSWALD

Clackamas Fire Department has a new articulated fire truck, with steering back axle. It turns out to be not so easy to coordinate two drivers who should act as one but still think independently as human beings. I imagine backing up my horse trailer to parallel park it, knowing it's turning radius, etc. and then seeing it start to move off on its own.

They had seen a training model to practice with and word got to me to see if I could build one. Sure, ideally working with some kind of guidance. Matt Towner coordinated the project and provided a good photo.



Delivery next week, with a request from me to sit in the rig. It's probably out of the question to ask if I can drive it

This model is 18" long. Front and rear axles steer via the handles. The wheels started out as wood but they kept sliding on a hard surface and would not let it steer. Homework and a lucky discovery of model airplane wheels solved that problem and work perfectly.



## FROM THE EDUCATION TEAM

NORM BAIRD

### GUILD UPCOMING CLASSES

#### Finish Before You Start with Chip Webster

Jan 13, 5-9, \$60

Coordinator: Bob Sokolow

#### Applying a Fast Drying Varnish Finish with Chip Webster

Feb 23, 5-9, \$90

Coordinator: Bob Sokolow

#### Design Exploration: Activate Your Practice with Amanda Wall-Graf

Begins Jan 27 (5 sessions), 5-9, \$370

Coordinator: Chip Webster

Both classes with Chris Schwarz, Make a Wooden Try Square and Make a Tool Chest are filled. If we have cancellations, we will fill slots from the wait list in the order received. Coordinator: Norm Baird

See the Guild website for registration and details. Contact the Class Coordinator with questions. All classes are held at the Guild shop unless otherwise specified. 7634 SW 34th St, Portland, OR 97219.

### AFFILIATE UPCOMING CLASSES

See their websites for more details and offerings

#### Oregon College of Art and Craft

The Wooden Spoon

April 11

Instructor: Amanda Wall-Graf

#### Northwest Woodworking Studio

Design Strategy: Making Your Bed

Jan 24

Instructor: Gary Rogowski

#### Portland Community College

PCC offers woodworking classes for beginners, women and seniors. I call your attention to one class:

Google SketchUp Basics

Jan 13 - Feb 17

Instructor: Bob Oswald

The Guild of Oregon Woodworkers is a group of professional and amateur woodworkers committed to developing our craftsmanship. 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)
- A woodworking shop with space to rent
- A network of friends

For information on how you can become a member, see the Guild website listed below.

# 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:

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### Affiliates:

Northwest Woodworking Studio  
 Oregon College of Art and Craft

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## Guild of Oregon Woodworkers

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