

NEWSLETTER FOR THE  
**GUILD OF  
 OREGON  
 WOODWORKERS**

**OREGON  
 WOOD  
 WORKS**

Vol. #36, Issue 8  
 August, 2019  
 Portland Oregon

**NEXT GENERAL MEETING PROGRAM:**

**MARY MAY CARVING PRESENTATION**  
*Carving Examples for Furniture Makers or  
 Why Consider Carving?*

**TUESDAY, OCTOBER 15**  
**SOCIAL TIME 6PM, GENERAL MEETING 7PM**  
**MULTNOMAH ARTS CENTER AUDITORIUM (MAC)**  
**7688 SW CAPITOL HWY, PORTLAND**



Mary May, a nationally-known wood carver, will be teaching classes for us for a week in October. She is returning after her first visit five years ago. Mary was trained in and practices European traditional style carving, with a wide variety of examples. She lives in Charleston, SC and spends her time in thirds - commissions, teaching, and running an online carving school.

For this evening's presentation, Mary will focus on topics and examples that relate to mostly non-carver furniture makers. The broad topic is **Carving Examples for Furniture Makers**, but the underlying theme is, *Why Consider Carving?*

Woodworkers understand that a blend of power and hand tools is usually needed for most projects. Hand tools considered essential are usually saws, planes and chisels, but not so often gouges. Traditional woodworkers in the past frequently embellished their projects with decorative or functional carving. Carving will be held up as an essential skill, not just for those who want to carve per se.

In addition to this free evening program, Mary is teaching in three classes that are listed on the Education Calendar:

- Tues Oct 15, Hints and Helps for Carvers, 10am - 2pm (same day as our meeting)
- Wed/Thur Oct 16/17 - two day class, Letter Carving and Personalization
- Sat/Sun Oct 19/20 - two day class, Scallop Shells and Fans, Convex and Concave



Student Example

See you at the Multnomah Arts Center (MAC) on October 15. Social time starts at 6pm with the general meeting starting at 7pm. The board meeting will be held in room 8 at the MAC from 5:30-6:30 for anyone who would like to attend.

Questions please contact CJ Marquardt at [cj@cjmwoodcraft.com](mailto:cj@cjmwoodcraft.com) or 503-267-1930

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## NOTES FROM THE GUILD PRESIDENT



### *Steve Poland*

Hello woodworkers! Would you believe we are now 1,020 total membership? This just raises the bar for our programs to keep everyone satisfied, and I'm happy to report that there is a lot going on toward that end.

Many of our newest members are just starting out on a quest to gain woodworking skills, so

Doug Drake and your education program committee are working hard on expanding the number of hands-on classes, where a project is selected that will focus on building specific skills that can then be applied to projects with increasing scale or complexity.

The intent is also to build your experience in project design and planning the logical sequence of steps from mockups, through material selection, machining, laying out, dry fitting, order of glue-up assembly, and finishing.

We also know that our current shop facility is very full in terms of bench/class capacity, space for machines, and multiple users. The committee studying what we should target to improve these conditions as our lease renewal date marches closer has collected program needs information from most of our active programs, such as Education, Community Projects, Library, Open Shop, and Estates Team. We are now analyzing these in order to establish a range of space sizes that could accommodate existing programs

without compromise, as well as projecting needs that will be created by program improvement goals.

In the meantime we are also reaching out to other potential community space resources to see whether interim or long term arrangements with them could help fulfill our goals. These include Multnomah Arts Center and Catlin Gabel School (which recently purchased the OCAC campus). We've found that there are some good possibilities particularly at MAC to rent or lease bench room / small shop space for additional class use. This could free up time in our existing facility for additional classes, community project, or open shop sessions.

These added potentials will increase the need for volunteers to teach, coordinate, and SA those sessions. Please do keep an eye on the website volunteer opportunities section for those needs, or if you have an idea for something in particular that you would like to explore, don't hesitate to talk to any of the board or program leads about it.

And lastly I would like to remind all of you to remember that as an all-volunteer organization, each of our interactions need to be positive, supportive, respectful, and considerate, in order to keep those volunteers excited and engaged in the programs. We really do not want to discourage those volunteers and fellow members through inconsiderate actions or words.

I'll be traveling most of October, but look forward to seeing what all is underway on my return in November!

**SAVE THE DATE**

**ANNUAL GOOW HOLIDAY PARTY**

WHEN: TUESDAY DECEMBER 17 @ 6:00

WHERE: MULTNOMAH ARTS CENTER AUDITORIUM

WATCH THE WEBSITE AND NEXT MONTHS NEWSLETTER FOR MORE DETAILS

### **The Guild of Oregon Woodworkers is...**

..., a group of amateur and professional woodworkers committed to developing our craftsmanship.

*Our Mission: To promote the craft of woodworking to the woodworkers of today and tomorrow.*

*Our Vision: A community of woodworkers that provide significant opportunities to develop, practice, enhance, and share woodworking skills.*

The Guild offers many benefits for members, including:

- ◆ Monthly programs
- ◆ Monthly newsletter
- ◆ Weekly Volunteer Special Interest Groups (SIGs)
- ◆ An education program to help members develop woodworking skills through a variety of hands-on and lecture classes
- ◆ Sponsor discounts
- ◆ Woodworking shows (such as Gathering of the Guilds)
- ◆ Network of business partners.
- ◆ A woodworking shop
- ◆ A network of friends and opportunities to volunteer and make a difference in our community
- ◆ Free and low cost community programs to join in learning woodworking skills through special interest groups, community build, & estate sales volunteering

What you can do for the Guild

- ◆ Volunteer your time to contribute, assist, organize, lead, teach
- ◆ Take a class
- ◆ Contribute your knowledge

For more information see the Guild website or visit the shop.

Guild Shop - 7634 SW 34th St, Portland, OR 97219

[Guildoforegonwoodworkers.org](http://Guildoforegonwoodworkers.org)



Many of us who have joined the Guild recognize that woodworking can be a lonely avocation. It's fun to get together with other woodworker's to swap stories, share successes, and failures, and to ask questions. Come join the fun at the next MEET-UP ...

**MONDAY, OCTOBER 7 - 11:30AM**

**Sckavone's**

4100 SE Division, Portland, OR 97202

Sckavone's is across the street from "Carbide Saw" a Guild sponsor. We will **not** be having a tour of his shop, but it is a good time to bring your dull blades to be sharpened and its always fun to see what bargains he has. (bring your dull blades he's a Guild sponsor)

**MONDAY NOVEMBER 4 - 11:30AM**

**Nite Hawk Restaurant and Lounge**

6423 N. Interstate Ave. Portland, OR 97217.

The Meet Up will be in the lounge area.

Looking forward to meeting up with fellow members for some lunch and conversation. There may even be some talk about woodworking.

The monthly Meet-Ups are held on the first Monday of the month and try to visit all parts of Portland. The goal is to allow members to get to know each other and develop friendships. Attendees order off the menu and pay on their separate check.

All the Meet-Ups gather at 11:30 am, but late comers are always welcome. Everyone in the Guild is invited.

## **WELCOME NEW MEMBERS**

Welcome to our newest **43** members. We're happy to have you with us and hope you'll make a regular appearance at the monthly program, contribute articles to the newsletter, and volunteer in other ways. Say hello at the next meeting so we can get to know you. New member orientation is 6:30-6:45 at each monthly meeting.

Nigel "David" Adler, Kader "Luke" Belbina, Paul Boeder, Steven Brezina, Conor Burke, John Clements, James Croft, Zachary "Zach" Davis, Kevin Fifield, Matt Freeman, Anthony Grimaldi, Jonathan Haapala, Bryan Hall, Thomas "Tom" Herrington, Jason Horwege, Chandler "Chad" Jendsen, Dexter Johnson, Hidemi Kremer, Megu Kremer, Rina Kremer, Wynn Kremer, Kaiya Kremer, Lucien Lasocki, Kailey Lembke, Mark Lewis, Trenton Lundquist, Francis "Frank" Maszy, Alexandria "Andy" Mickel, Michelle "Missy" Moore, Nathaniel Newton, Trent Nguyen, Ben Nilsen, Christina Ogletree, David Onley, Jon Pinson, Manik Punj, Neha Rich-Garg, Bill Rossi, Saubia Saeed, Todd Smith, Justin Steeves, Steve Verdino



**STRATEGIC PLANNING GOAL #3: Maintain woodwork-  
ing resources that meet the needs of the Guild today and in  
the future.**

### *Gary Weeber*

The Woodworking Resources and Planning Group (WRAP) is off and running. The planning group is part of our strategic plan and has the goal of identifying our future woodworking needs and the resources needed to meet those needs. The Guild has changed dramatically over the past few years and as a result we are now a significantly different organization, requiring strategic advancement as an organization.

As a member, this is YOUR organization's facilities planning group: Steve Poland, President; Gary Weeber, Vice President; Gig Lewis, Past President; Chip Webster, Past Education Chair; Julie Gredvig, Education Registrar; Jesse Smith, Member; and Carol Boyd, Member.

Transparency was identified early on as a goal for this group's operation and so we will be making regular reports to the members at monthly program meetings and will include an update article in each newsletter. There will be MANY members involved in the process as we seek routine input from content experts and program leaders. We will also be turning to outside experts as needed in order to make sure we cover all legal, insurance, financial and other related concerns.

The WRAP Group has now met twice. With the goal of having two or three different planning models developed by January 1, the current state of planning is as follows.

**PROGRAM DRIVEN PLANNING:** The planning is focused on meeting our current and future program needs. Steve P. requested input from program managers and that preliminary input has been received. The information will be coalesced into standard format by our next meeting. That should help us with model development.

The education program has already provided us with some basic modeling of future scenarios and we will be using

that as a guide for developing other program need scenarios. Steve Poland and Jesse Smith are taking the lead on this aspect.

**SHOP USE DATA:** We have access to data that will help demonstrate our past and current use of our present shop facility. This will help us develop an activity baseline. Carole Boyd is taking the lead on this and will have more information available at our next meeting.

**REAL ESTATE:** The group has already identified two potential real estate firms and representatives that may be of help in our process. We are going to begin investigating what is currently available so that we can begin developing a 'lay of the land'. Steve Poland and Gig Lewis will be leading this effort.

**LOCAL NON-PROFIT PARTNERSHIPS:** We recognize that there are other non-profit organizations in our community with an art, craft, or maker focus that could be interested in working with us as we consider future facility options and operations. Step 1 will be to develop a list of potential partners. Jesse Smith and Gary Weeber will begin working on this and have a preliminary list available for the next meeting.

If you have any questions or concerns please feel free to contact any of the WRAP Group members. Contact info is available on the website in the member directory.

This is both a challenging and exciting time for the Guild of Oregon Woodworkers. As result, we encourage all of you to embrace the opportunity to volunteer at least some of your time, knowledge, and/or skills to our current organization's planning and operating efforts. Volunteers are indeed the lifeblood of this organization.

**NEXT WRAP GROUP MEETING: October 9, 2019**

**GUILD CLASSES** - 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

### INTRODUCTION TO SKETCHUP FOR WOODWORKERS

**Mike Chia**

Oct 8, 1-5

Class Fee: \$60

Class Coordinator: TBD

This class is currently full, but if you are interested, please add your name to the Waitlist.

This class is an introduction to 3D modeling using SketchUp Free, a free browser-based modeling tool. The class assumes no prior experience with SketchUp and will cover the basics of getting started with the software.

### CARVING HINTS & HELPS

**Mary May**

Oct 15, 10-2

Class Fee: \$50

Multnomah Art Center

Class Coordinator: Larry Wade

You may have seen nationally and internationally known woodcarver Mary May on line, on Roy Underhill's TV program, or at the Guild during her previous visit. Here is your opportunity to learn some of her favorite tips and techniques and get your carving questions answered in a relaxed setting. There is plenty of space left (as I write this).

### LETTER CARVING - PERSONALIZATION AND SIGNS

**Mary May**

Oct 16-17, 9-5

Class Fee: \$350

Class Coordinator:

Heidi McNamee.

Carved lettering can enhance your own furniture projects and perhaps support your creation of your own signs. In this class Mary will teach, and you will practice, both straight (roman) lettering and also cursive. Advanced beginners and intermediate carvers are welcome, but be sure to check the prerequisites.



### SHELL AND FAN CARVING

**Mary May**

Oct 19-20, 9-5

Class Fee: \$350

Class Coordinator: Ruth Warbington

This class will focus on carved shells, concave and complex. We will also provide an introduction to carving concave and convex style fans. This class is designed for advanced beginner and intermediate carvers. Please check the prerequisites.

### INTRODUCTION TO CNC

**Craig Jones**

Nov 14, 5-7

Free

Class Coordinator: TBD

Come and get an overview of the world of CNC wood-working.

### BASIC BUILD- MAKE YOUR FIRST CUTTING BOARD

**Mike Chia**

Dec 11, 5-9

Class Fee: \$60

Class Coordinator: TBD

This is an introductory hands-on class where students will learn the steps to make a laminated cutting board. The class is designed to also provide an introduction to several shop machines, including planer, bandsaw, router table and sanders.

### AFFILIATE UPCOMING CLASSES

See their websites for more details and offerings.

ANVIL ACADEMY

**Friction Folding Knife**

October 15 & 22

Instructor: Chuck Cook

NORTHWEST WOODWORKING STUDIO

**Cool Projects: Coffee Table**

Mondays, Oct 14-Dec 16

Instructor: Peter Stevens

## SPECIAL INTEREST GROUPS (SIG)

*These groups have discussions and hands-on demonstrations. The SIG groups meet in the Guild Shop unless stated otherwise.*

### HAND TOOL SIG

Meeting: Wednesday, Oct. 23 - 6:30:00 pm to 9:00 pm

Where: Guild Shop

Topic: Build a box for free!- with only hand tools



The project for the October Hand Tool Special Interest Group (SIG), we'll be building Roy Underhill's version of a sliding top box. The design is simple and easy to scale to any size needed. To build this, you will learn to make grooves, miters, and rabbits. This session will be lead by Dennis Dolph.

Please bring your rabbit and grooving planes, saw and a chisel. If you don't have the tools we will have some you can borrow.

Please register at the Guild's website so we know how much 1/4" stock to prepare. There is no charge for this class. We also need experienced builders to help the newer members.

P.S. If you would like a head start on this project, you can watch Roy build this at the "Woodwright's Shop" season 36 episode 2 "Sliding Lid Box".

<https://video.unctv.org/video/woodwrights-shop-sliding-lid-boxes/>

Look forward to seeing you there,

Ken Hall and Dennis Dolph

### WOMEN'S SIG

Next Meeting: Thursday, October 3 (1st Thursday each month) at 6pm (We will be there by 5 if you'd like to come help set up)

Lead: Eddee Edson - [mseddee@gmail.com](mailto:mseddee@gmail.com)

### CNC SIG

Next Meeting: Oct. 10 (2nd Thursday each month) - 6pm

Where: Multnomah Art Center

Lead: Craig Jones - [cjones3106@gmail.com](mailto:cjones3106@gmail.com)  
503-975-7541



*Steamboat Model made by Steve Poland*



One of the premier awards given to Guild members is the Volunteer of the Month (VOTM) award. These awards recognize exceptional volunteer service by a Guild member. As we know, the lifeblood of the Guild is volunteerism and we have hundreds of volunteers annually. When you have a chance, please shake the hands of our VOTM folks in particular because their contributions have been truly outstanding.



## Ruth Warbington

### **AUGUST - VOLUNTEER OF THE MONTH:**

Ruth Warbington joined the Guild and immediately pitched in by helping to organize and clean up our Shop Library. If you haven't checked it out recently you should we have quite a nice collection and thanks to Ruth it is easier than ever to use.

As part of the Education Committee she also has helped out by coordinating a number of classes. She has also been particularly helpful with the newest carvers and women we have in the Guild.

Finally, she is not timid about volunteering for any number of Community activities (Product Build, Gathering of the Guilds, etc.).

Ruth is yet another example of the enthusiasm and spirit that makes the Guild run! Thanks Ruth!



## Mark Klein

### **SEPTEMBER - VOLUNTEER OF THE MONTH:**

Since showing up for a Project Build session this past January, Mark has become one of the mainstays of the Wed. afternoon program. He quickly earned his Shop Attendant credentials and in June he...together with Mike Sandman and Phil Scott...assumed program lead duties for Project Build.

Mark readily volunteers for events such as the Gathering of the Guilds, and birdhouse assembly at Multnomah Days and Art-in-the-Pearl. He also participates in the New Member Liaison Program, teaches machine skills classes, and jumps in to help aspiring woodworkers whenever he sees the opportunity. Mark epitomizes the "where can I help" attitude that makes our Guild such a great success.

## ART-IN-THE-PEARL (AIP)

### *Roger Crooks*

Another great event for the Guild. This three-day show required 24 four-hour shifts from our members over a holiday weekend –

### MANY THANKS TO OUR VOLUNTEERS!



We had a steady flow of people – all ages, all nationalities, all backgrounds, etc. It was nice to hear that people are getting to know us, remember us from past shows, and those who did not know about the Guild commented – “What a great idea.” I am pretty sure we will get a dozen or more new members.



*Mark helping a stylish young lady.*

Of course, working with the kids is tremendous fun. Getting women of all ages to pick up a hand plane and make some curls is a sight to see. Everyone walked away with big smiles.

Several members from the AIP board said how important booths like ours are for the community and the show. They get many requests to have a demo booth, but space is limited and now we are an expected participant.

**Spokeshave Demo** - The shave horses and the dribble demo continue to amaze me. Some people really get into it and go for perfection. We went through over 100 partially turned spindles.



*A great Mother/Son exercise.*

**Box Demo** - This joint demo with the Woodturners Guild, generated a significant amount of cash for two non-profit organizations; the [\*Portland Art Museum's Children's Education Program\*](#), and the [\*Craft Emergency Relief Fund, or CERF\*](#). CERF raises funds and makes grants to artists who need assistance rebuilding their studio after a natural disaster or other help. We went through nearly 100 boxes.

**Sachet Demo** - The cedar shavings demo remains our most popular interactive demo. Very few people turned down the opportunity to take a pass with a hand plane. It was a great opening for people to talk about their father/grandfather's woodworking, tools, and other aspects of woodworking and for us to talk about the Guild.

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## ART-IN-THE-PEARL...[continued from page 6](#)

Visitors saw lots of people walking with these sachets and wanted to know where they could buy one. Free was a good answer when they found us.

On day two, one lady came back and said she put her sachet in her underwear drawer, and they smelled great – too much information.

**Volunteers** – Some were old pros at this, and others were first timers. Everyone did a great job. I had many new members step up this year. Maya Aleshnick, a new member and unsure of what she could tell people, became a hand-plane expert within the first 15 minutes and her engaging personality easily brought people into the booth. Mark Klein, with nothing better to do one day, was a walk-in volunteer whose help was appreciated. Bob Nacamulli and Romney Kellogg stepped up for multiple shifts.

Sara Livingston, another new member, commented “It was really fun to participate; watching kids and adults find enjoyment in making shavings. One woman said her husband would love the Guild so I gave her a brochure and she thought she would make it a present to him. I suggested that she write a love note to him on the wood and include it as part of her gift. She made the shaving and put it in a sachet for him to find! Really sweet!”

SEE YOU ALL NEXT YEAR!



*There is always a non-conformist in the crowd.*



## What Our Members Build

*Send in your photos - Please send us photos and notes about your wonderful work. Please include a little info on the piece: type of wood used etc. Send your photos to [newsletter@guildoforegonwoodworkers.org](mailto:newsletter@guildoforegonwoodworkers.org)*

**Bob Tompkins:** Bob's latest project is a 36" x 21 3/4" Vertical Chess Board. The white "squares" are Western Maple Rustic Burl and the black "squares" are Marbled Quilt Claro Walnut. The frame is domestic Walnut. The inlay and chess pieces are purchased. Underneath each row is a strip of acrylic for the pieces to stand on. He built the board to display a chess set designed by Man Ray in 1920. Photo B shows a chess problem where white mates in two moves.



## IS IT A JIG OR IS IT A FIXTURE?

*John Sheridan*

A *fixture* is a support or work holding device to hold work in place. The best example is drilling on a drill press. The work is fixed by the fixture and not in motion. Fixed in place.

A *jig* is device used to control the location or motion of another tool, guiding the tool. The work or the cutting tool will be in motion. The best example is a tapering jig for the table saw. Or a curving operation on a shaper. Think of a “jig,” a dance with movement. For a furniture part very often there will be a pair of jigs, one for each side of the item.

The purpose is to provide repeatability, accuracy and create interchangeable parts.

There is a six point principle to design jigs and fixtures:  
3,2,1

Pins or contact points are place in the three axes: xx, yy, zz

In the base, vertical and perpendicular planes, if possible.

Jigs and fixtures eliminate setting time, increase accuracy, increase production and reduce labor and material costs.

## WHAT IS A PANTOROUTER

Mac Sheldon, a Guild member and manufacturer of the PantoRouter, recently donated a PantoRouter ProPack to the Guild. You ask, “what is a PantoRouter”? A PantoRouter is a precision woodworking joinery machine that mounts a router in a horizontal position and allows the operator to move it in three dimensions. A PantoRouter enables the operator to make accurate and repeatable mortises and tenons, dovetail and box joints, and a variety of other uses including wooden hinges.

On August 2, Mac conducted a class for Guild members. Each attendee was able to build a set of Krenov style saw horses using the PantoRouter. A few Shop Attendants were also present and learned how to use it safely and effectively so they can both monitor and teach others how to use the machine properly. The machine is currently stored in the Annex and has its own dedicated cart for transport and storage of the various templates and parts that come with the machine. See photo showing the PantoRouter being used by a class attendee.



## MARK YOUR CALENDAR: FUTURE GENERAL MEETINGS

**November Meeting: Tuesday the 19th**  
Terra Firma Design NW, Tom and Jennifer, teachers from Port Townsend, Marquetry and leaded glass focusing on furniture and lighting pieces.

**December Meeting: Thursday the 12th**  
Annual Guild Holiday Party at the Multnomah Arts Ctr

## VALLEY OF THE ROGUE STATE PARK JUNIOR RANGER PROGRAM

### A TWO-PERSON DESK UNIT PROJECT

#### Chuck Rinehart

My friend, Bob Barnhart and I have spent the past ten years building furniture, remodeling interiors, and playing tennis. That was back in Rochester, NY until he talked me into moving to the Portland area the same time he returned to his home town a couple of years ago. Unfortunately for me he has since decided to be a wandering soul, living in his mobile home year round, moving from one Oregon State Park to another and becoming a Camp Host. His remodeling and woodworking skills are being put to good use around the camp site facilities. The most current has been finishing the interior of the Beaver Lodge at the Valley of the Rogue State Park in Gold Hill, Oregon. This



involved installing sliding doors, windows, interior walls, lighting, air conditioning, vinyl flooring, and several wall-mounted display cabinets using recycled, severely weathered picnic table seats. He resurfaced one face, leaving the other weathered face to provide a rustic look. Quite a transformation. Each display case was custom designed to display a wide variety of wildlife specimens.



The end result is a very visually unified effort, until you see the metal folding chairs and tables for the Junior Rangers to sit on! Ideally, a circular arrangement of desk units would improve the teaching environment. Bob produced a rough sketch of a two-person desk concept that could be nested in a circular arrangement. With their very

limited workshop conditions and furniture design skills, Bob gave me a call describing the situation and requested my involvement. This sounded like a worthy project and offered another opportunity for us to work together.

I started with Bob's rough sketch of their desk idea and developed a set of drawings, working on angles for the nested circle concept and providing a working surface and seating large enough for two people. For structural strength and durability I decided to use Baltic Birch plywood, using 1" thick material and doubling up on the major vertical center piece to make a 2" thick major support foundation anchoring the seat and desktop.



The drawings looked good, but how to convey the design idea to the staff and get constructive feedback when they are 240 miles away. I decided a scale model would be the answer, so using foam core board and hot glue a 1/4 scale model was put together and shipped to them. This worked



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**TWO-PERSON DESK UNIT** ...[continued from page 12](#)

well and resulted in a couple of constructive design modifications. With design approval, the next step was estimating the amount of material required to construct 11 units. Baltic Birch ply comes in 60" by 60" sheets and the design required seven unique parts involving angles. This would require a carefully worked out "jigsaw puzzle" layout for each sheet to minimize waste. The project required five sheets of 1" thick ply and three sheets of 3/4" MDF and three sheets of counter top laminate.



Full-size templates for each of the seven parts were cut from 1/8" Baltic Birch. These were used to transfer nesting outlines to each of the five sheets of 1" thick material. This amounted to quite a number of pieces to produce 11 finished units.



The State Park workshop was equipped with a 10" Powermatic table saw, a 12" DeWalt planer, a 10" chop saw and 12" sliding compound miter saw. There was a Harbor Freight router table. Bob has a Festool track saw, a powered scroll saw, and various battery operated power tools. I provided hand tools, a belt sander, plunge router, an assortment of router bits including a flush trim bit, multiple layout tools, angle gauges and bar, and adjustable clamps. We requested the Camp acquire an 8" benchtop jointer to

add to their woodworking equipment assortment

The track saw would be the workhorse for cutting out the angled and nested plywood parts. This would require a work surface large enough to handle 5' by 5' sheet goods. Bob constructed a 2x4 grid for the work surface and we assembled two sturdy saw horses from their "cut-off" wood supply to support the grid. A sheet of foam insulation material added a sacrificial work surface.



The assembly plan was to use "washer-head" screws and "flat-head" screws for all major joints and Kreg Jig joinery for supporting parts. The 1/8" patterns would provide screw location guides for drilling screw thread clearance holes prior to assembly. A drill press was not available to drill vertically aligned holes in thick stock so we added a hand-held drilling guide which provided the required alignment.

The design required that two major support parts would be 2" thick, so those parts were glued up with a multiple clamp assembly using a roller to apply a uniform coat of glue to the surface area. Out of the clamps each part was run through the jointer to true up surfaces.

Before assembly all exposed edges were softened by a pass through the router table with a 3/8" "round-over" bit.

With all parts, cut, edges treated, sanded to 220 grit, wet with water to raise the grain, and re-sanded with 220 grit we were ready to assemble. (water-based poly would be the final finish, thus the grain-raising process prior to first coat of finish)

We decided on a three phase assembly process: Screw together the base unit using alignment jigs to assure alignment, both square and vertical. Screw the seat and top to the base unit. Kreg jig the seat support gussets and the top support gussets. So far we had not dealt with any miter joints.

We then applied the laminate material to the desktop and flush-trimmed with a hand-held router and flush-trim bit.

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**TWO-PERSON DESK UNIT** ...*continued from page 13*

We processed the solid maple wood edging for the top. Using the 3/8" round-over bit in the router table, both sides of the 3/4" stock was processed then a 3/4" strip was ripped on the table saw. These strips were then sanded to 220 grit, grain raised with water, and re-sanded when dry.

The desktop design called for a 16 degree angle on the sides to accommodate the circle fitting requirement. This complicated the miter cutting angles. Having two different miter saws allowed the angles to be refined for each corner. Once refined the same angles would work for the top edging and the apron corners under the top.

Edging for the top and apron were cut individually, piece by piece to handle variations in minor dimensional differences, unit to unit. The aprons were assembled first. Guide lines were marked out on the underside of the top to define corner locations, then the lengths were carefully marked and cut, working corner to corner. Kreg jig hole locations were marked and drilled. The first piece was positioned with glue applied to the center support piece and finish nailed. Kreg jig screws were applied next aligning with layout lines. Glue was applied to the miter corner and gus-

set for the next piece, finish nailed to the gusset, and Kreg screws applied. Two finish nails were shot into the corner miter. This process was repeated for all four sides of the apron. Corners were softened with a wood rasp and sanded.

Wood edging was applied next following a similar procedure, marking and cutting each piece, working around the top. Prior to applying glue to the edge, paste wax was applied to the laminate surfaces around the edges to keep the glue from sticking to the surface. Glue was applied to the top edge, the edge strip positioned then carefully finish nailed at several locations along the length while flushing the strip to the laminate surface. The process was repeated for all four sides. A rasp was used to refine and soften the corners.

Final cleanup of all joining locations with the rasp and sandpaper completed the building. A water-based Polyurethane finish was brushed on all the wood parts, scuff sanding with 320 grit paper between three coats. Final rub-out with 0000 steel wool and paste wax.



*Eleven finished two-person desk units*

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