THE VILLAGE WOODWORKER

Volume 19 No. 3 | March, 2015

Editor: Tom Ringenbach Email: tommamie@charter.net

Calendar of Events

March 5	Regular monthly meeting. Yacht Club 7:00 pm. Program: Dan Baker "Bird Carving" Note: For those who would like to stay after the meeting, Tom Borloglou will present an "African Travelogue" covering his recent trip.
March 10-11	Class in Marquetry and Inlays, Arrowmont School, Gatlinburg
March 21	TVWW Club Board meeting, Tanasi Grill, 8:00 a.m. All members welcome.
April 2	Regular monthly meeting. Yacht Club 7:00 p.m. Program: "100 Shop Tips in 50 minutes" Member participation.

Board Meeting Highlights - 2/28/2015

The Board of Tellico Village Woodworkers met on February 28 at Tanasi Grill. Seventeen members were present.

Tom Valenzo reported that new audio-visual equipment has been purchased and tested, and is ready for use at club meetings and other events.

Thirteen community service projects have been accepted this year so far. Eight have been completed.

Rick Mannarino (Treasurer) reported that the club has a bank balance of $3,460.95, the large majority of which is tied up for kiln amortization. A discussion regarding the correct formula for such amortization ensued. Rick will bring proposed changes to the amortization schedule to the next Board meeting.

Kiln Inventory: 330 bf of cherry; 675 bf of white oak; 450 bf of red oak; and 60 bf of osage orange. Wood sale anticipated in April.

A Nominating Committee for the next election of club officers was formed, including Dick Hoffmann, Bill McKeel, and Jerry Jeffrey.

A large and colorful poster used for recruiting new members at New Villagers' meetings was presented. Member Tom Schemberger represented the club at last month's meeting and John Johnson will fill that role at the next New Villagers' meeting.

New Member - January

Jack Ernst

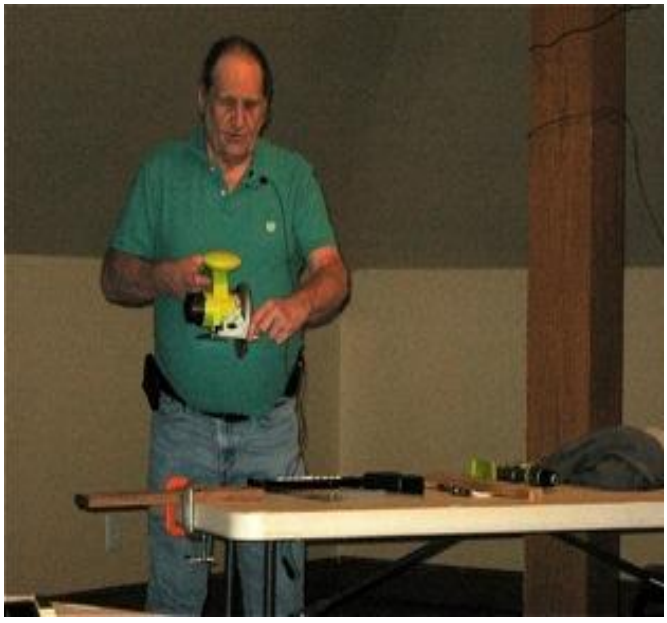
Welcome to the Club!

February Meeting

Charlie Anderson

Members and guests at our February meeting were rewarded with an extremely interesting presentation on how a blind person goes about working on a woodworking project. Club member Marshall Pierce began the evening by explaining how he became blinded in his mid-twenties during his time in the military. Also, he shared how he is able to mentally cope with the everyday functions of living which we all take for granted.

Marshall demonstrated how he is able to measure within 1/16 of an inch using a “click ruler”. Little dimples in the ruler indicate measurements. He makes his mark on the workpiece using an awl and then scribes his cutting line for feel. He can then set his saw blade, whether a table saw or any other type saw, a fixed distance from the scribed line. He then proceeded to cut a measured piece using a cordless circular skill saw. Some in the audience appeared a little nervous watching Marshall work, but he assured everyone that he was well aware on how he was handling the task at hand.



Marshall emphasizes safety precautions at all times. He prepares for all his work by first considering all safety aspects that he needs to follow before starting the job. He still has all 10 fingers.

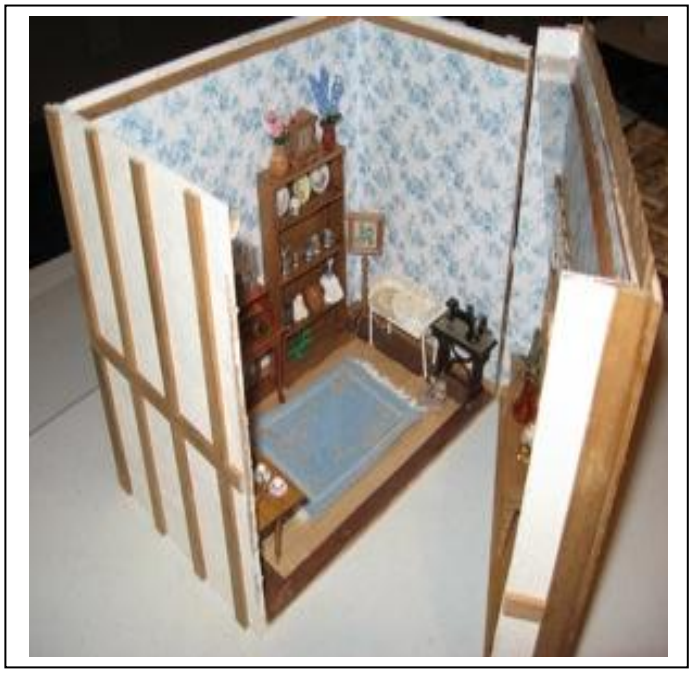
Marshall demonstrates how he accurately and safely uses his circular saw.

Marshall is an inspiration to all of us, not only in how he performs all tasks but also in his attitude towards attempting to live a full and rewarding lifestyle.

From our Members' Shops

Members were treated to another fascinating tour of members' recently completed projects in the "Show and Tell" segment of February's meeting. We got another reminder of the breadth of talent and skill within our membership.

Chris Campbell shared with members her most recent exploration into the world of miniatures ... Grandma's Attic



Gene Yeager created this trivet made of wine bottle corks.

Dick Hoffmann demonstrates various inlays he recently created. He and our other mentors will share their skills at the upcoming Arrowmont class.

From our Members' Shops (con't)

Dave Sabel carved this beautiful depiction of a mountain man.

Bob Fagerlin constructed these training devices as a community service project for Smokey Mountain Service Dogs. With these, dogs learn to turn on and off light switches in the home. Behind the sliding door is a spot to place a dog treat as a reward for success.

Tools and Tips

Dave Breen submitted this tip after receiving several inquiries about it from members visiting his shop.

Supercharge Your Shop Vacuum

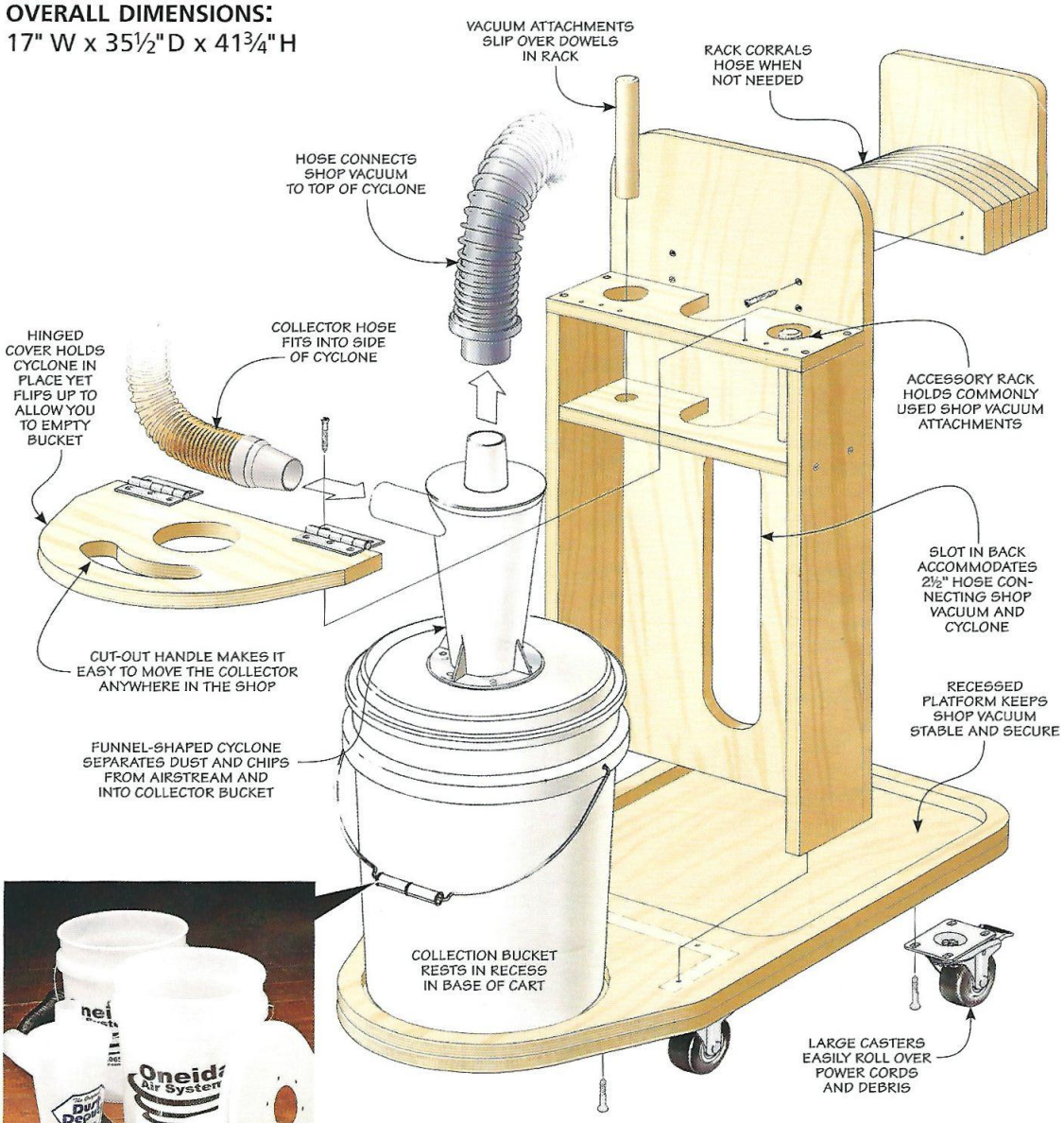
A low cost cyclone kit and this simple cart are all you need to turn a shop vacuum into a top-notch dust collector.

A shop vacuum comes in handy to collect dust and chips from power tools and for all-around shop cleanup. But it doesn't take long for the filter inside the canister to clog with dust, which reduces its effectiveness.

To prevent this from happening, *Oneida Air Systems* designed its *Dust Deputy* kit shown above. It features a small, plastic cyclone separator to direct most of the dust and chips into a five-gallon bucket. The kit shown in the photo on the facing page includes some foam blocks and an extra bucket to attach the cyclone directly to the side of the vacuum canister. As the bucket fills with chips though, things can get unbalanced. So I designed the roll-around cart shown above to create a stable, compact dust collecting center.

Construction Details

OVERALL DIMENSIONS:
17" W x 35½"D x 41¾"H



***Oneida* Cyclone Kit.** The *Dust Deputy* kit includes the cyclone, two buckets, mounting hardware, foam blocks, and connector hose. (See sources on page 98.)

MATERIALS, SUPPLIES & CUTTING DIAGRAM

A	Bottom and Rim (2)	¾ ply. - 17 x 35½	H	Hose Holder (1)	4½ ply. - 9 x 4
B	Sides (2)	¾ ply. - 4½ x 25¾	I	Holder End (1)	¾ ply. - 9 x 9
C	Top (1)	¾ ply. - 4½ x 14	• (4) 3" Swivel Casters w/Screws		
D	Shelf (1)	¾ ply. - 4½ x 12½	• (28) #8 x 1½" Fh Woodscrews		
E	Back (1)	¾ ply. - 14 x 36	• (7) #8 x 3" Fh Woodscrews		
F	Attachment Rods (2)	6½ - 1 x 1	• (1 pr.) 3" Utility Hinges w/Screws		
G	Cover (1)	¾ ply. - 9¼ x 14	• (1) 1 Dust Deputy Cyclone Kit		

Roll-Around Cart

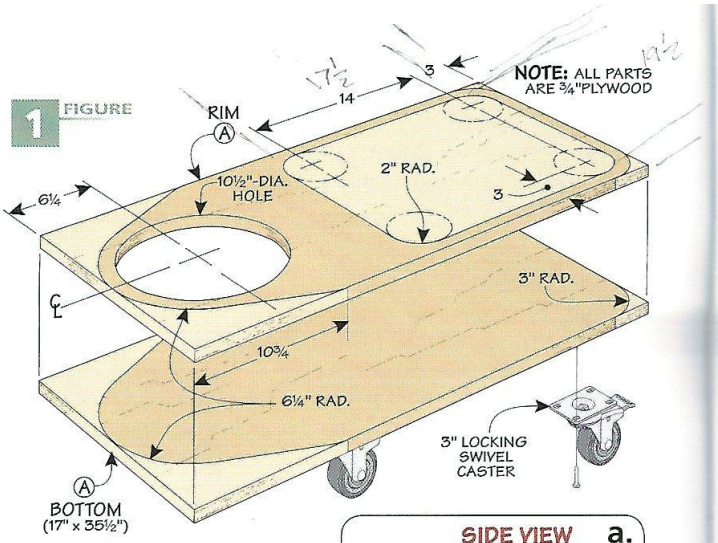
The main purpose of this simple cart is to provide a single platform for both a shop vacuum and the *Dust Deputy* system. But you'll find there are a few other features as well. For starters, a flip-up cover adds stability to the tall, slender cyclone. Pulling on the hose could cause the cyclone to tip over without this extra support.

Another feature is the center column. On one side, there's a rack for storing a couple of commonly used shop vacuum accessories. Then on the other side, there's a rack that's designed to hold the vacuum hose.

Additionally, the rounded base won't catch on your tools or workbench. And the large, 3" casters aren't likely to get caught on power cords or cracks in the floor.

Finally, the cart is made from inexpensive plywood. And due to its simple joinery, you can build it and put it to use in a weekend.

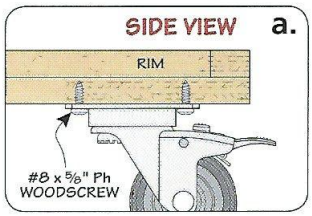
FIGURE 1



STABLE BASE

I began building the cart from the base up since all the other parts are attached to it. The base is sized to hold the cyclone, bucket, and vacuum, as shown in Figure 1.

TWO-LAYER BASE. The base actually consists of two layers of plywood. The first layer is solid. The second layer has a pair of cutouts.



The cutout on one end captures the five-gallon cyclone bucket. On the other end, the cutout creates a rim to keep the shop vacuum from rolling off the base.

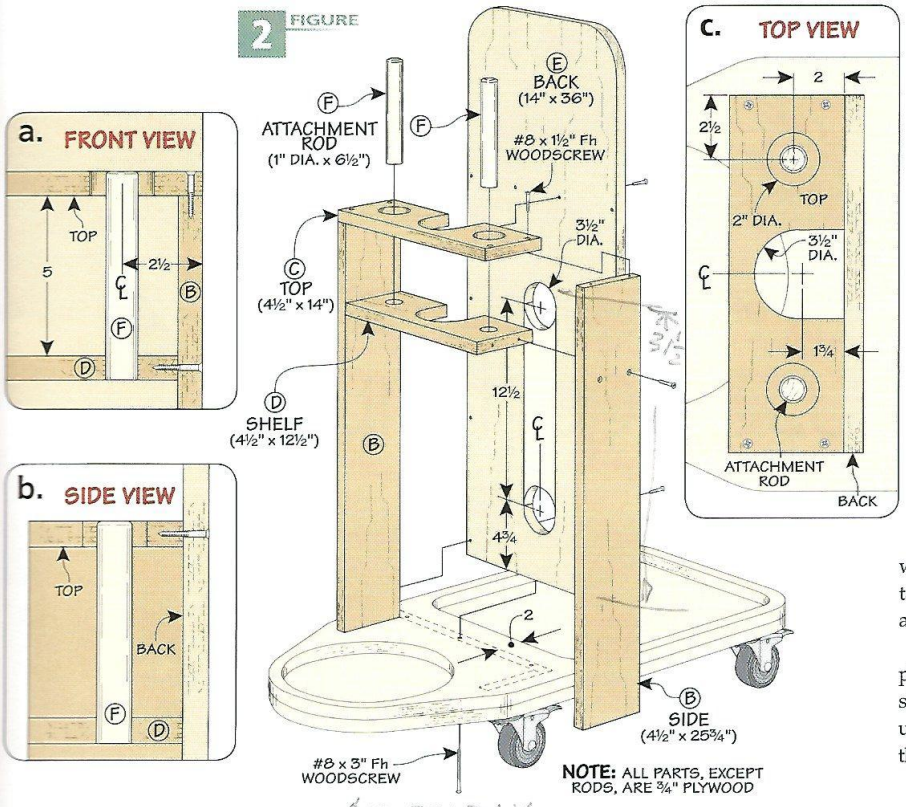
To create the cutouts, I started by cutting two rectangular blanks to match the width and length shown in Figure 1.

I set one of the blanks aside for the time being and marked the location and size of the cutouts on the other blank. The cutout for the shop vacuum is sized to accommodate most models, but it's a good idea to check the overall "footprint" of your vacuum before moving on.

You can create the cutouts with a jig saw. Drill a hole just inside the layout lines to provide a starting point for the jig saw. Cut as close to the waste side of the line as you can. This will reduce the amount of time it takes to sand away blade marks and clean up the edges.

FINAL SIZE. With the cutouts complete, you can lay out the final shape on the blank. Here again, I used a jig saw to make the cuts and then sanded everything smooth.

FIGURE 2



Now that one layer is complete, you can use it as a template to shape the other one so they're identical. I glued the two pieces together making sure to align the square end and long edges. Rough cut the bottom layer then trim it flush using a hand-held router and a pattern bit.

The final step to complete the base is to attach the casters to the bottom with screws (Figure 1a).

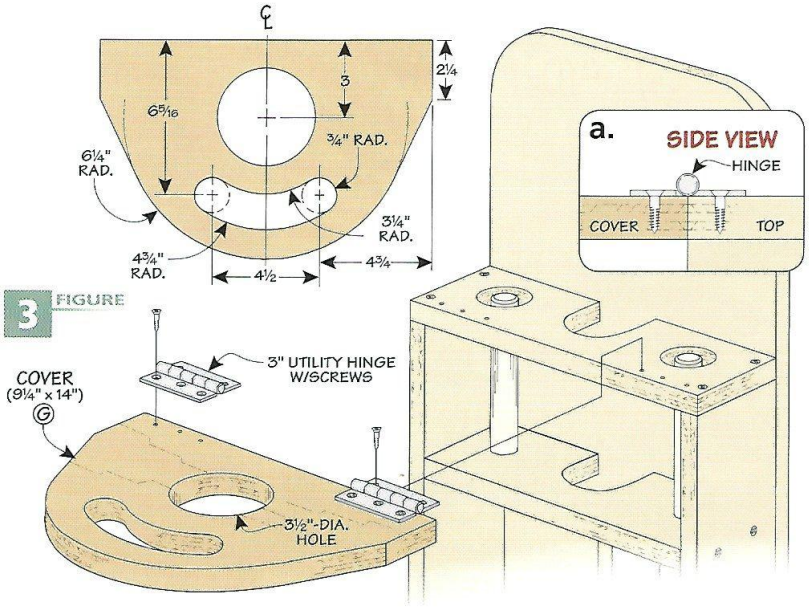
ACCESSORY COLUMN

Located between the two cutouts in the base is the column. As I mentioned before, it provides stability to the cyclone and has racks for vacuum attachments and the hose.

The column is made up of a pair of sides. These are connected by a top and shelf, as you can see in Figure 2. Both the top and shelf have a cutout on one edge to accept the hose that connects the cyclone to the shop vacuum.

ACCESSORY RACK. These pieces also have a pair of holes to hold the shop vacuum accessories. Just keep in mind that the holes aren't the same size, as shown in Figure 2a. The lower holes accept a length of dowel that supports the hose attachments (Figure 2b).

BACK. The next piece to make is the back of the column. It's rounded on the top to soften the corners. There's a slot cut in it to allow the connecting hose to pass through, as shown in Figure 2. You can make this slot the same way as you made the cutouts in the base.



3 FIGURE

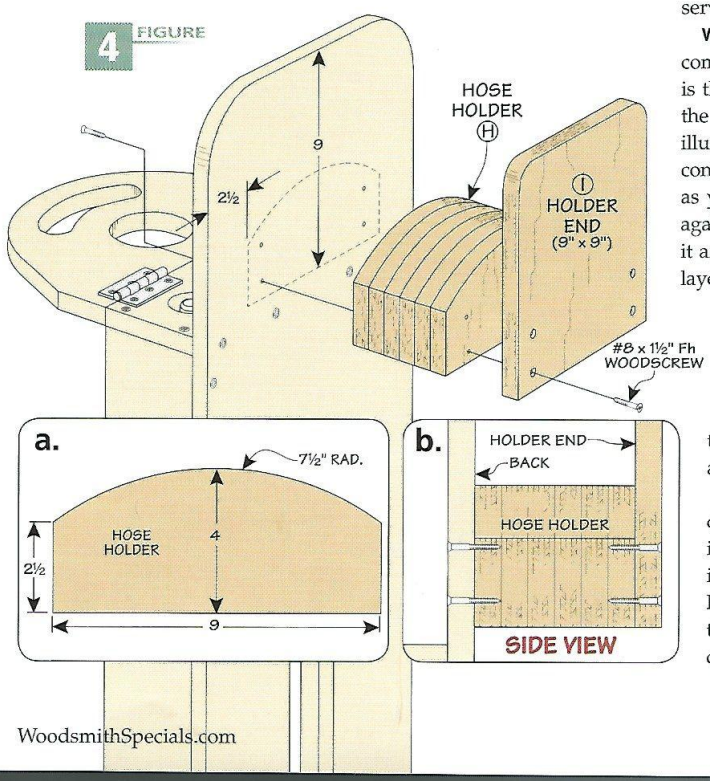
COVER. On the front of the column I added a hinged cover. It's rounded to match the shape of the base, as you can see in Figure 3.

The cyclone fits through a large hole in the cover to keep it stable in use. When you need to empty the bucket, simply remove the top hose and flip the lid clear. The cover also has a curved slot that serves as a handle.

VACUUM HOSE HOLDER. The final component to make for the cart is the hose holder that mounts on the back side of the column, as illustrated in Figure 4. The holder consists of six layers of plywood, as you can see in Figure 4a. Here again, I shaped one layer and used it as a template to create the other layers one at a time.

The vacuum hose is held in place by an end piece. The end piece is attached to the hose holder with screws. And the hose rack is screwed to the column through the back, as shown in Figure 4b.

With the cart complete, you can set the vacuum and cyclone in place and thread the connecting hose through the column. Now you're ready to hook it up to your power tools and start collecting dust and chips.



4 FIGURE