



September 2019 Edition

(Newsletter Editor: Ros Barnes, rbbnz@msn.com or 505-864-8857)
<http://www.abqawa.org>

IMPORTANT ANNOUNCEMENT!!

AWA will again be meeting in Class Room #4 at North Domingo Baca Multigenerational Center, beginning at 9:30 AM, concluding around 12:30 PM, on the **third (3rd) Saturday of each month. Doors open at 9:00 AM.**

This does not mean AWA is ending its relationship with Woodworkers Supply. We have spoken to Woodworkers Supply who has been a very generous sponsor of AWA for many years and will continue its support moving forward.

Preview of the September 21, 2019 AWA Workshop starting at 9:30 AM

For September we have:
“3-D Printing”
Presented by Bill Cotton

Bill Cotton bio:

Been wood working since building Balsa wood model airplanes at age 12. Then wooden push cars; then bookcases; then house remodeling. In between woodworking projects, Electrical engineering degree, computer retail store owner, then Chiropractic school, then practice for 20+ years. Shop volunteer at Valley high school for 5 years in metal and wood shops. Now retired and taking fine woodworking classes at Santa Fe CC.

Hobbies: woodworking and digital electronics & programming, including 3D printing, laser engraving and designing, building and using CNC routers.

Best woodworking project – flipped a couple of houses for a profit.

Worst woodworking project – built 48” X 84” copy of existing book case only to find out red oak looks exactly like white oak if you don't hold them side by side.

Presentation:

Home product manufacturing has been a growing industry for the last 10+ years. Today we will be exploring not only woodworking uses for 3D printers but also a short discussion of allied / machines for home manufacturing. In the next decade the rapid development of a number of 3D like devices will revolutionize our concepts of how things are made.

September's Woodworker's Supply Specials

Router bits pages 500-501, 506-507, 509, 515 in the BBWW19. Not all items and the discount is 7.5%.
(You may be required to verify your membership with your AWA membership card.)

Upcoming Workshops

10/19/19
“Woodturning and Furniture”
Presented by Michael Anderson

11/16/19
“Decorative Banding”
Presented by Aaron Hall

12/21/19
“Jigs, Fixtures, Tips, and Techniques”
Presented by Ramon Valdez

August's Workshop Statistics

Attendance: 35 members, 2 guests.

\$10.00 Cash/ea.: Kevin Cook and Charlie Palmer

\$50 Woodworkers Supply Gift Certificate: Jim McCoy

Various odds & ends: Van Barta, Mike Murray, Gerald Simnacher, Ken Smith, Doug Lawson, Jack Henning, and Art Palmer

September 21, 2019 SILENT AUCTION

(A note from Les:) *If you have an item you want to donate to the AWA because 1) you no longer need to it, 2) you no longer want it, 3) you forgot (or never knew) how to use it, consider donating it to the AWA and we'll offer it in the silent auction during the meeting. If you have decided you have something like that and are going to bring it to the meeting for the auction, please let me know ahead of time so we can be prepared for it. Just send me an email at secretary@abqawa.org and we'll have it all set up. Thank...Les*

A Silent Auction of woodworking items donated by members will be conducted during the meeting to offer items of greater value than those typically offered for the raffle.

Here's what to expect. If a member wants to donate an item he or she feels is of greater value than is typically raffled, that item can be entered in the monthly silent auction. The item is brought to the meeting, and the member contacts the “auctioneer” who will provide a form asking for a short description, an approximate value,

and a designation of where the funds are to be used if other than the general budget. The auctioneer will put a minimum bid on the form and announce the item is open for bid at the beginning of the meeting. Bids will be accepted until the presentation is concluded at which time the auctioneer will announce the highest bidder. It is expected that a winning bidder pay for and take the item they won immediately.

Les Bruce (secretary@abqawa.org) will be the auctioneer at the Saturday meeting. If you plan to bring an item for silent auction it would be helpful to let him know ahead of time so we can have things prepared.

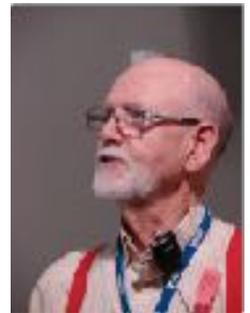
Items for the raffle and the silent auction are donations but if members wish to sell woodworking items rather than donate them, those items or description can be brought to the meeting and we'll post them on a "For Sale" board for members to see. There is a classified ads area on the new website (<http://www.abqawa.org/dir/forums/forum/classified-ads/>) where you can post items for sale to the membership. We will post items listed in the classified ads on the "For Sale" board at the meeting.

If you have any questions, send an email to Les.

August, 2019 Presentation

For August, we had:
"Dowel Joinery Miter Saw Table"
Presented by Ben Blackwell
(written by Gerald Sinnacher)

Ben moved to Albuquerque (for the first of three times) in 1965 when he accepted an engineering position at Sandia Lab. His entire career was spent at Sandia Lab with the exception of a 2-year stint from 1977 to 1979 teaching mechanical engineering. His work at Sandia Lab involved thermal testing and developing software to model thermal phenomena. He has been fully retired since 2015. His woodworking interests include fine furniture making, jigs and fixtures, and using SketchUp to model his various projects. Ben is in the middle of getting a new shop up and running which included this project, the mobile work station for a compound miter saw table.



Abstract: Dowel Joinery Miter Saw Table: A compound sliding miter saw is a useful tool to have in the shop. If your shop space is limited, it is helpful to have this miter saw mounted on a mobile base. I retrace the steps taken to make a miter saw table and dust collection improvements for my shop.

- Selection of Compound Sliding Miter Saw
- Design of Mobile Table
- Selection of Table Joinery
- Fabrication of Table with Emphasis on Joinery
- Glue Up
- Dust Collection for Completed Table
- Dust Collection Test Results

Miter Saw Selection: Wood Magazine's 2018 10" miter saw review had the Bosch CM10GD and Delta 26-2240 reticulated arm saws on top. Ben wanted a reticulated arm saw as his shop has a narrow aisle space where the saw will work and a sliding arm would push the table out significantly from the wall to accommodate the slider. Additionally, he wanted a 12" saw and Amazon user reviews scored the Bosch saws more favorably. However,

before making a choice he visited AWA member, Tracy Murray's shop, and tried the Bosch out before choosing. Based on his research and practice using Tracy's saw, he purchased the 12" Bosch. [Note: A discussion ensued over member's recent difficulties or inability to find Delta parts. Some members state that they have been successful finding parts from Grizzly that were labeled and numbered with Delta numbers. It turns out that in 2011, Taiwan-based Chang Type Industrial Co., Ltd. purchased the Delta brand from Stanley Black & Decker and recently moved operations to Spartanburg, South Carolina so parts availability might improve.]

Designing the Mobile Base: Saw selection accomplished and in hand, he could design his bench around its dimensions. There are plenty table designs online and although initially attracted to plywood panel construction with an adjustable saw-height platform, he settled on a traditional bench with leg/stretcher construction. Drawn up using Sketchup, the skeleton is of Poplar—the legs are 2" x 2" and the stretchers 3 1/2" x 3/4" and the saw support framework is 1 1/2" x 3 1/2". It has an overall length of 58" based on 5' x 5' plywood. The three plywood shelves are made from 3/4" Baltic Birch. The table top wings are simply open-ended rectangular boxes scaled to be level with the miter saw support surface. Ben made his with Tee nuts recessed in the four corners of each box giving him the capability to fine-adjust the surface support level. The boxes are not permanently fixed but are held in place by 3/4" rare earth magnets inserted in the table top. The table top wing boxes' height adjustment bolts rest on and are held in place by the magnets. (He later added two adjustable Krenov Saw Horses to support long material when cutting.)

Joinery: Assembling a prototype with biscuits was unsatisfactory. In glue up, the joints slipped under pressure. He had been a fan of floating tenons made with a plunge router and a shop-built jig but he had recently used a Dowelmax jig to assemble mitered doors on a cabinet and wanted to try dowels instead. Dowels assure the dry-fit alignment so that corrections can be made before glue up. The Dowelmax jig is made of precision machined aluminum with steel drill guides and brass fittings that configure for edge and face drilling. The basic configuration locates dowel holes 3/8" from the edge of the board and the kit comes with spacer blocks to accommodate other than 3/4" material. Additionally, the indexing tool and adjustable distance gauge adds flexibility for spacing dowel holes along an edge. The Dowelmax jig is limited to boring for 1/4" and 3/8" dowels but is much more sophisticated than your old fashioned Dowl-it self-centering dowel jig. Check out the how-to-videos at www.dowelmax.com . Dowelmax provides very good technical support and claims that its joinery is stronger than tenon and domino joinery.



Fabrication of Table with Emphasis on Joinery: Marking stock using the "Cabinet Maker's Triangle" technique facilitated placement/alignment decisions throughout the project. For consistency, Ben milled all his materials at the same time. Since his shelves were wider than his planer, he ripped them down to rejoin them with the Dowelmax jig after milling. He used painters tape over cut line of the leg and stretcher sets to prevent blowout before cutting them to length.

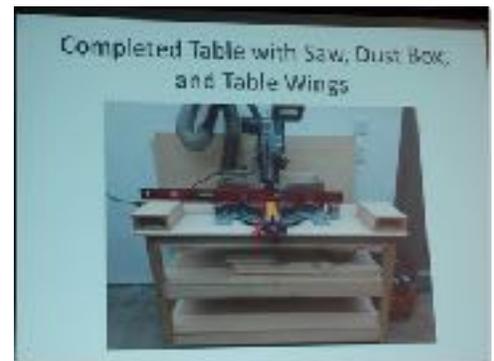
He showed how end drilling shelf supports and face drilling the legs with the jig was almost intuitive. The jig lines up flush with the edge in both cases and a 1/4" reveal is easily created with a spacer on the legs. The jig-maker heavily emphasized his 'checkmark to checkmark' jig placement technique to assure the bores are

referenced to the appropriate edge/face for perfect alignment every time. Ben's design had a single short stretcher stiffening the long shelf stretchers for the lower two shelves. But to support the miter saw's eighty pounds he had to beef up the upper shelf which was done with an additional short stretcher and a pair of braces. Precise measuring and checkmark to checkmark setup simplified the stretcher to stretcher alignment. Ben saved the leg cutoffs from earlier to make drill guides for the legs' caster holes. He marked and drilled the center of the cutoffs on his drill press then clamped these guide blocks to each leg to assure his handheld drill bored vertical holes for the Tee nuts and casters.

Glue Up: After dry fit, the glue up required a second set of hands at critical phases and in manhandling the structure between vertical and horizontal. The process all started with gluing the trestle ends and the individual shelf assemblies. These steps start with one trestle end lying on the floor with shelf supports and shelves dry-fit and standing vertical:

1. With the other trestle end, holes facing up, apply glue to legs and insert dowels.
2. Apply glue to end grain of shelves and top support (note that shelves must be in place during glue up).
3. Rotate trestle end assembly (from step 1) 180 deg and mate with shelves/top supports.
4. Rotate entire assembly back to horizontal and apply 6 clamps.
5. After glue dries, rotate to vertical position with unglued end on top and repeat the entire 1 – 4 sequence.

Dust Collection for the Completed Table: Miter saws have a bad habit of spreading sawdust and of it being hard to control that spread. The factory dust boot on the Bosch 12" saw is no exception. Ben referred to Dan Pattison's shop built dust boot <https://www.danpattison.com/blog/axial-glide-dust-mods> and made a prototype with painters tape first, and it helped. Then he designed and built a plywood fence (Dust Box) scaled to his saw with 2 5/8" dust ports in the bottom on either side. The dust ports were made using a Jasper circle cutting jig with rounded edges on the circles on the inflow side.

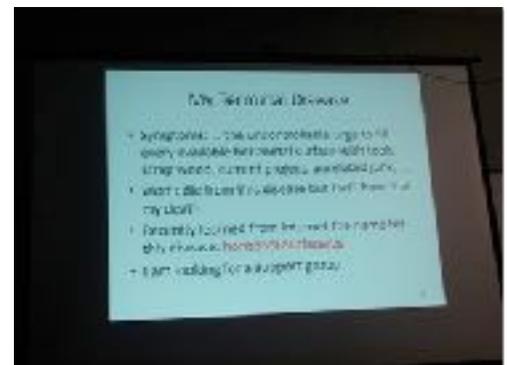


Dust Collection Test Results: All tests consisted of cross cutting 70" of 1/2" Baltic Birch plywood and recording the results (photographs). The tests were done both with the dust collector turned off and with the dust collector turned on.

Test results:

1. The Dust Box alone helped contain the saw dust – Dust collection not functioning.
2. The Dust Box with dust collection system operational significantly improved collection.
3. Regardless of dust collection strategy, there will be a significant amount of sawdust uncollected.
4. Conclusion use your best dust collection device but wear a mask and some kind of air filtration system.

Summary: Ben built his mobile table using dowel joinery. He likes the Dowelmax jig. The joinery is strong enough for this project and quicker than his experience with making floating tenons. The Dust Box has to be custom designed to the saw used and is a big improvement but operators should use dust masks. As for the Bosch 12" miter saw, he likes the saw, its size and precision cuts but would prefer one with a soft start motor—this one has a noticeable kick on startup. (Members in attendance stated that Rigid and Makita produce soft start saws.)



World of Wood is back!

World of Wood is back up and running on the wholesale side of business.
(See their ad at the end of this NL for their e-mail. No phone number available at this time)

Safety Tips, Woodworking Tips, Experiences

(If you have a tip that you would like to share, send it to the editor, Ros Barnes, RNBBNZ@MSN.COM)

(None for this month.)

AWA “Mentor List”

(from Ros Barnes, newsletter editor, RNBBNZ@MSN.COM)

AWA is still looking for any members who are interested in being a Mentor for others in our organization. If you are at all interested, please e-mail me. You do not need any formal training to be a Mentor - just the desire to share your woodworking knowledge with others.

NAME	DISCIPLINE	CONTACT INFO
Ros Barnes	Cabinet (casework) design and construction, toy design and construction, equipment adjustment and tuneup, jigs.	505-864-8857 RNBBNZ@MSN.COM
Bill Cotton	CNC, 3D printing, laser engraving and joinery questions.	phone 505.306.6819 wyzarddoc@yahoo.com
Gale Greenwood	Cabinet making, case goods (eg: chest of drawers).	505-256-1379
John Gonser	Toy design and maker (Note: John [an AWA LIFE Member] lives in Grand Rapids, Michigan, but is willing to mentor anyone via email, telephone, or other means, and he has some original designs he is willing to share.)	616-949-0061 mailto:john.gonser@sbcglobal.net
Mike Ulrickson	Scroll Saw operation and use	505-659-8943 maulrick@aol.com
Alan Voda Steve Wagner	Plastic casts and molds	Alan: 268-7096 or amv6775@gmail.com Steve: mailto:bigjawbone@mac.com
Bill Zerby	Tool Sharpening	505-263-6632 mailto:william.zerby@gmail.com

State Fair Photos

Here are a few photos from AWA's display area at this year's state fair, including the "Thank You" acknowledgement from the Asbury pie booth to AWA for making five "pie boxes":



Another "Toy Party" (by Ros Barnes)

On Saturday, September 14th, a handful of AWA members (Ros Barnes, Ron Danner, Rick Martin [photographer], Bryant Mitchell, Mike Murray, Gary Reece, Jerry Trujillo, and Jerry Van Slambrook) got together at Jerry Trujillo's woodshop in Belen and cranked out 100 mustangs and 50 wheeled whales. Thanks to Jerry and Lou for providing Pizza and soda so we could stuff our faces. This party is by no means the only one to take place this year - there were several others. Thanks to all who participated!



New Members

For August, Kelly Bingham and Melody Schedlbauer joined AWA.

WELCOME!

AWA Name Badges



Steve Schroeder is our AWA volunteer who makes badges for those members that need them. You can contact him at stefano.abq@gmail.com.

AWA Apparel



Ivan A. Blomgren is our AWA volunteer who takes orders for apparel.

The cost for each item includes an AWA embroidered logo.

1. Caps are \$12 each and are available in Red, Dark Green, Navy and Stone colors.

2. Long Sleeve Denim Shirts are \$29 each and are available in Dark Denim, Light Denim, and Washed Black colors.

Men's sizes are S, M, L, XL, 2XL, 3XL, 4XL, 5XL, & 6XL. Tall sizes are available for an additional \$6 each.

Ladies sizes are S, M, L, XL, 2XL, & 3XL.

3. Short Sleeve Denim Shirts are \$29 each and are available in Dark Denim, Light Denim, and Washed Black colors.

Men's sizes are S, M, L, XL, 2XL, 3XL, 4XL.

4. Short Sleeve Key West Performance Staff Shirts (two Pockets) are \$35 each available in White, Cloud Blue, Green Mist, Khaki, & Navy colors.

Men's sizes are S, M, L, XL, 2XL, 3XL, & 4XL.

Ladies sizes are S, M, L, XL, 2XL, & 3XL.

5. Polo Shirts with pocket are \$27 each available in White, Black, Forest, Campus Gold, Light Blue, Burgundy, Classic Navy, Classic Red, Electric Blue & Platinum colors.

Men's sizes are S, M, L, XL, 2XL, 3XL, 4XL, & 5XL.

Ladies sizes are XS, S, M, L, XL, 2XL, & 3XL.

6. V-Neck T-Shirts are \$19 each available in White, Black, Turquoise, Ocean Blue, Maroon, Navy, Red, True Royal & Silver colors.

Men's sizes are XS, S, M, L, XL, 2XL, & 3XL.

Ladies sizes are S, M, L, XL, & 2XL.

Names can be added to shirt orders for an additional \$5 per name.

Those who are members of the New Mexico Woodturners can also have the NMWT logo added for an additional \$5 per item.

Orders are placed quarterly with the last meeting for each quarter being the deadline for submitting orders. Orders are expected to be available for pickup the first meeting of the next quarter. The procedure for placing an order is to take the completed order form to the treasurer for payment. The treasurer will indicate payment has been made on the form and then give the form to Ivan for order submittal.

1st Qtr: Jan-Mar Order cutoff: **March meeting**

2nd Qtr: Apr-Jun Order cutoff: **June meeting**

3rd Qtr: Jul-Sep Order cutoff: **September meeting**

4th Qtr: Oct-Dec Order cutoff: **December meeting**

For those wishing to have a logo added to an existing garment, Ivan has a local embroidery shop source you can take them to for embroidery. See Ivan for the details.

Order forms can be downloaded and filled out from our web site as well as from Ivan at our meetings.

AWA Classifieds

Neil Davie has these poplar pieces for FREE: Call or text Neil at 250-4873.



AWA Website, CD's, and DVD's

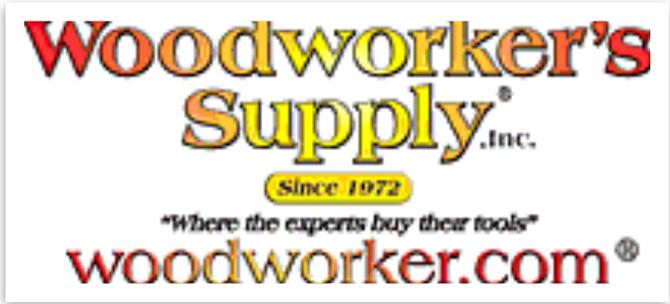
The AWA website continues to grow and change. Most recently, the links to the AWA library on the members page have been updated, and the library's catalog has been updated to include even more great woodworking books. This library is a terrific resource for our club's members! It contains information on all aspects of the craft. If you are interested in checking out a title, please contact librarian Steve Scott at webmaster@abqawa.org and let him know what you'd like. He'll bring your selection to the next AWA meeting for a one-month checkout period.

Sawdust On The Brain (humor via Ros Barnes - two this month!)

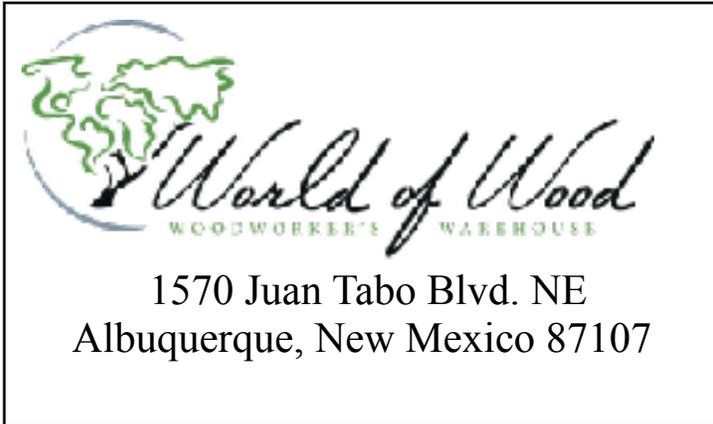


"Mr. Barnes is here again to speak about machine safety. Unfortunately, I missed his first speech."

AWA SPONSORS

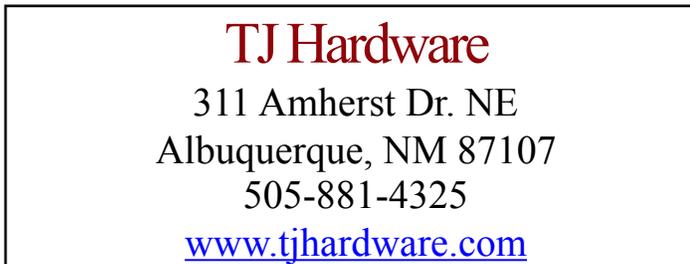


Montana Reclaimed Lumber
<http://mtreclaimed.com/home>
PO Box 741
Gallatin Gateway, MT 59730
(406) 763-9102

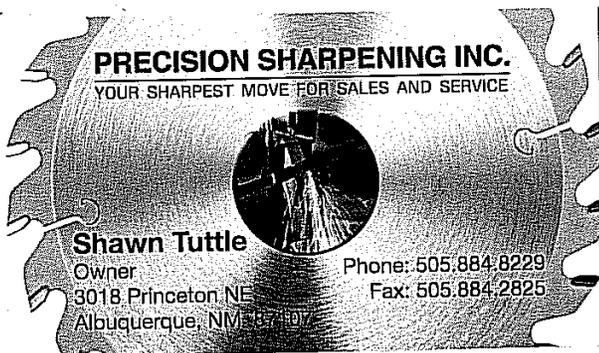


Building Materials and Construction Services
Hardwoods and Plywoods

5815 Edith Blvd NE, Albuquerque 87107
(505) 823-2200
1050 18th St., NW, Albuquerque 87104



(505) 924-2270





Membership Application

Mail to: P. O. Box 36133 Albuquerque, NM 87176-6133

DUES:

Dues are assessed on a calendar year basis. Please pay a pro-rated amount of **\$3** per month to the end of the current year plus additional years to extend your membership. Please check appropriate boxes.

- One Year - **\$36** Two Years - **\$68** (a 5% discount) Three Years - **\$97** (a 10% discount).
- Lifetime Membership - **\$360** (10 times annual dues).
- Full-time students (under 22) in an accredited educational program receive a **50%** discount.

Amount Paid: \$ _____ (Prorated current year + additional years)

Name: _____

Spouse: _____

Address: _____

City/State/Zip: _____

Telephone: Home: _____ Work: _____ Cell: _____

E-mail (please use all capital letters): _____

I agree that Albuquerque Woodworkers Association, including the officers, will not be liable for any injuries or bodily harm resulting from the operation and activities of the association.

Signature: _____ Date: _____

Print Name: _____

Please sign, date, and send this form (with payment by check) to the above address or bring payment (check or cash) to the next AWA Meeting/Workshop. The membership application is fillable on your computer so download, complete, and print.

* We would appreciate your answering a few questions so we can make your membership in Albuquerque Woodworkers Association as satisfying as possible:

- Are you willing to volunteer a few hours to help with various Association activities? Yes No
- What special skills do you have that might be useful to AWA?:

-
- Are you retired or semi-retired? Yes No Comments: _____
- (Revised 11/6/2018)