



# TWA Newsletter

Next Meeting: Tuesday, December 6

Location: Atria Oakridge Senior Living facility

10810 Sandy Oak Lane

Raleigh, NC 27614

Topics: TWA Club Celebration

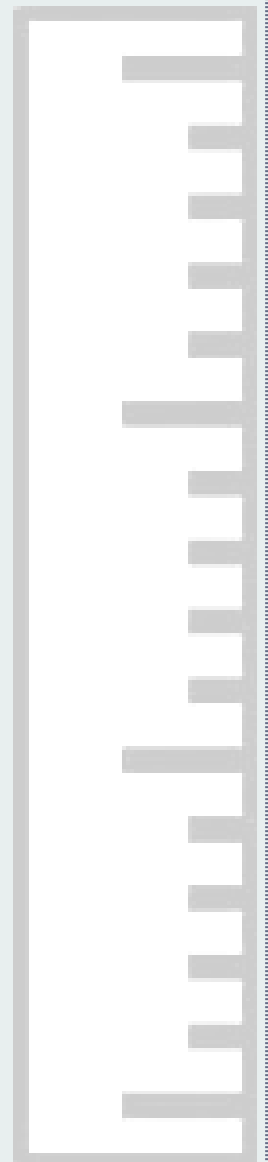
For the December meeting, we are planning a buffet dinner like we've done in the past, and this time there will be a cash bar available for beer and wine purchases. Members and their spouse/significant other are welcome to attend. Doors will be open at 6:00 pm with dinner starting at 6:30 pm. The Toys for Tots Workshop's toys will be displayed for you all to admire. After dinner we will have a brief business update followed by the Workshop hosts showing the toys they have made.

This meeting will not have a Zoom option and those attending should have already reserved a spot and paid for their seat in advance. If there are any questions, please feel free to contact Joe Sabo.

*Host: Joe Sabo*

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# TWA GENERAL MEMBERSHIP MEETING—NOVEMBER 15, 2022

*(meeting minutes: James Sapp)*

Roy Brookhart opened the regular November meeting on Zoom and at Klingspor's. Eighteen members attended at Klingspor's and another eight on Zoom. We welcomed new members Mike Webster and Mark Hitchcock, who attended the meeting at Klingspor's.

Joe Sabo won the evening's raffle for a Woodcraft gift card.

The next meeting will be the annual Toys for Tots celebration dinner and donation to the Marine Corps. The meeting will be at Atria Oakbridge Senior Center on 10810 Sandy Oak Lane in Raleigh. The doors open at 6:00 PM. A buffet dinner will start at 6:30PM. Cost is \$18 per person. The last day to make reservations is November 22nd. Contact Joe Sabo at email [sabojc12@gmail.com](mailto:sabojc12@gmail.com), or text to 919-625-7680. Payment can be

made by sending a check to Joe's address 308 Canon Gate Dr. Cary, NC 27518-2423. He will also accept payment through Zell (phone number 919-625-7680) or Venmo using username Joe-Sabo-25. Payment deadline is December 3rd.

Barton Meeks coordinated an updated membership list and it was shared by email from the TWA webmaster. If you note any corrections, please let Barton know what changes need to be made. We are continuing our membership drive with two incentive programs. First, any member bringing a new member will be eligible for a chance in a quarterly drawing for a \$50 gift certificate at a

local woodworking store. Second, any member bringing in three new members in a calendar year will have the annual dues waived for one year.

The first meeting of 2023 will be on January 17th.



*Joe Sabo sharing the plans for the December meeting and dinner (photo: Roy Brookhart)*

## THANK YOU TO OUR MEMBERS

TWA would like to thank members who provide donations to the club or the Toys for Tots fund. The following members have made a generous donation to the club or the Toys for Tots fund within the club in the last month.

- Mark Hitchcock
- Dick Raup
- Ray Essington

## TREASURER'S REPORT (OCTOBER)

Beginning Balance:	\$10,045.40
Income:	\$670.00
Expense:	\$172.47
Ending Balance:	\$10,542.93
Does not include Petty Cash of \$86.00	

*Submitted by Jack Kite, Treasurer*

## NOVEMBER FEATURED SPEAKER - BOB BEHNKE

*(meeting minutes: James Sapp)*

The November meeting presentation was given by Bob Behnke. The presentation was recorded and will be available in the members-only section of the TWA website.

Kerry Schoolfield introduced Bob Behnke, the Technical Service Manager for Titebond Adhesives. Bob's phone number is on the back of every bottle of Titebond glue.

Other than hide and cyanoacrylate varieties, Titebond woodworking glues are primarily PVA (polyvinyl acetate) suspensions in water. On a microscopic level, the glue particles are tiny spheres suspended in water. As the water evaporates, the glue particles get closer together and eventually a plastic film attaches to the wood.

During the gluing process, some of the water from the glue evaporates, but some is absorbed into the wood. Properties of wood that affect glue performance and selection include wood density and hardness, moisture content, wood movement, how the board was cut from the tree (i.e. plane, quarter or rift sawn), and contaminants such as pitch, oils, surface contaminants and wood extracts.

Wood density and hardness influence glue strength. The moisture content of the wood should be between 6% and 17%. The moisture content of the wood can lead to differential expansion between the wood and the glue line leading to glue ridges appearing after the moisture equilibrates. Wood will move with moisture but the glue will not, resulting in the appearance of ridges. Sanding immediately upon unclamping is not recommended because wood movement is not finished yet. To be sure that the wood

is stable after glue-up, Titebond recommends waiting a week before sanding. In-house testing has shown sanding after 24 hours presents 50% probability of glue line ridge appearance. Waiting 3 days reduces the probability to 10%. Note that hide glue expands and contracts with moisture making the appearance of a glue line ridge much less unlikely. Because PVA glues bond to cellulose, surface contaminants, oils and burn marks prevent the glue from adhering to the wood. These contaminants should be removed before glue-up. Acetone is a good solvent for removing oil and other contaminants.

Titebond I has a shelf life of about 10 years and Titebond II and II have shelf lives of about 4/5 years. If the glue has a vinegar smell, it has gone bad.

Application of PVA glues involves open time that is defined as the time between first application and when the glue starts to set (called the putty point). For Titebond I and II, the open assembly time is 5 minutes, and the total assembly time is 10 to 15 minutes. For Titebond III, open time is 8 to 10 minutes with a total assembly time of 20 to 25 minutes. Recommended clamping pressure is 100-125 psi for softwoods, 150-175 psi for medium woods and 175-200 psi for hardwoods. Glue clean-up may be done with a wet rag, scraping the squeeze-out after 20 minutes or scraping and sanding after removal from clamps. Surfaces being glued should be sanded to 220 grit.

There are five steps to be followed for successful glue-ups:

1. Prior to assembly, have clamps ready and close by. Note the order of assembly. If using iron pipe clamps, mask the pipe where



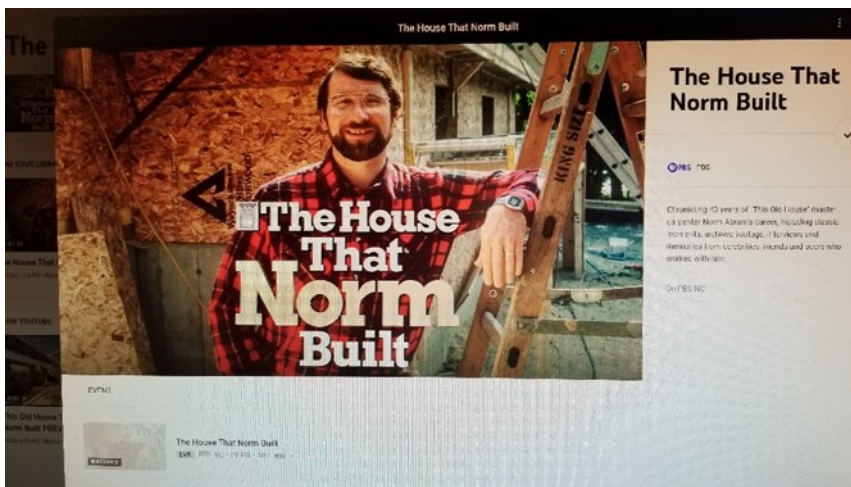
*November's presenter was Bob Behnke (photo: Roy Brookhart)*

it will contact the glue to eliminate stains in the wood. Mask-off or pre-finish areas where glue squeeze-out would affect the performance of wood finishes.

2. Select the right glue for the job. In assembling joints, determine where and how much glue should be applied. For example, on mortise and tenon joints, PVA glues will swell the wood that will later (in a couple of years) shrink as it dries causing the joint to become loose. Using a non-water-based glue such as epoxy would eliminate that issue plus provide more open time in assembling the project. On dovetail joints, glue application should be made only to keep the joint from coming apart. Dovetails provide a strong mechanical joint.
3. The glue and the wood must be above the minimum temperature (chalk point) for the glue to perform. Typically chalk temperatures are about 50°F.
4. Have clean-up tools and supplies at hand to remove squeeze-out. Remove the masking tape used to protect the wood from squeeze-out after the glue starts to harden.
5. Clamp for at least two hours.

## NORM ABRAMS RETIRES

Did you see the PBS special on Norm Abram's retirement? Norm inspired many people to get involved with woodworking. PBS created a special episode ("The House That Norm Built") honoring Norm for his time on This Old House and The New Yankee Workshop. The special highlighted 43 years of his career featuring classic moments, archived footage, interviews, and more. There probably isn't a woodworker among us that was not inspired by something that we saw or heard from Norm as we watched him every week for all those years. Roy shared this screenshot below from the show.



## MEMBERSHIP COMMITTEE

In November, TWA welcomed Mark Hitchcock to our club. Be sure to welcome Mark when you see him online or in person.

Happy holidays from your membership committee. It is almost 2023, believe it or not. Who will you invite to a TWA meeting in the new year? Our membership promotions will continue -- it pays to bring folks into TWA, and it makes our club more successful.

*Barton Meeks, Membership Committee*

## MENTORS

Mentor	Service/Skill Offered	Phone Number	Email Address
Hugh Fish	Chairs, Joinery, Machinery & Power Tools, Mantles, Routers, Tables and TV Cabinets, Turning	(919) 467-5696	hughpatfish@yahoo.com
John Margeson	Baby Furniture, Beds, Bookcase, Chairs, Chest, Decks, Tables	(919) 876-3476	jmalice@bellsouth.net
Mike Resar	Baby furniture, Beds, Bookcase, Cabinets, Chest, Drafting, Dressers, Tables, TV Cabinets	(919) 876-1664	atwaterla@ncleg.net
Allen Campbell	Simple inlay, Staining/dyeing, Pen turning, Cabriole legs	(919) 772-4551	aacjr@nc.rr.com
Cecil Raynor	Joinery, Finishing, Tables, Chairs	(919) 815-9155	cecil_raynor@yahoo.com
Amy Dowden James Sapp	Google SketchUp	(919) 932-6252 (919) 586-7280	amydowden1@gmail.com james.b.sapp@gmail.com
Ken Serdar	CNC woodworking		ken.serdar@gmail.com



## UPCOMING MEETING

**Date:** Tuesday, January 17

**Topic:** Wooden Gear Clocks

**Presenter:** Joe Carr

**Location:** Klingspor's

Joe Carr is a retired engineer and business executive who has been a passionate woodworker for over 35 years. During his career as an entrepreneur, CEO and board director for several private and public companies, he has looked to woodworking as one of several forms of creative “decompression” from the intensity of business life.

His current work focuses on horology – the design and building of timepieces. His clocks range from the sophisticated to the whimsical with each piece relying on unique designs, interesting movement and classically beautiful wood finishes. He has been awarded a patent for the reverse motion movement

In addition to timepieces, Carr designs and builds functional furniture as well as purely aesthetic artwork.

*Host: Bob Gabor*



## PRESIDENT'S MESSAGE

We are in the midst of the Holiday Season and the end of another year. Thanksgiving is still fresh in our minds and the memories of friends and families are strong. We will soon be wrapping up another year of Toys for Tots and supporting the Marine Corps as they work to make more children smile on Christmas day. And, we each get to celebrate the Holiday in our own way with our families.

I would like to extend my greetings for a very Merry Christmas and a Happy New Year to each and every one of you. Enjoy the times, be safe, stay healthy, and I look forward to seeing you again in 2023.

Regards,

*Roy Brookhart*

## NEWSLETTER CONTRIBUTIONS

Please send newsletter content for future newsletters to Fred Ford (fredford22@ gmail.com) and Karin Pihel (karin.pihel@ gmail.com).

Contributions for each newsletter are due by the last day of the previous month.

# BOARD AND COMMITTEE MEMBERS

## POSITION

President  
Vice President  
Secretary  
Treasurer  
At Large Board Member  
At-Large Board Member  
At-Large Board Member

## BOARD MEMBER

Roy Brookhart  
OPEN  
James Sapp  
Jack Kite  
Chris Gebhardt  
Joe Sabo  
Judy Sanwald

## COMMITTEE

Program Committee  
  
Toys-for-Tots Committee  
  
Newsletter Publications Committee  
Library Committee  
Publicity Committee  
Sponsor Committee  
Internet  
Mentor Committee  
Membership Committee  
Audio/Visual Committee  
Photographer  
Social Media  
Raffle Committee  
TWA Duties and Responsibilities Editor

## CHAIRPERSON / MEMBERS

OPEN / Jeff Leimberger, Cecil Raynor, Bob Gabor, Kerry Schoolfield, Mike Payst, Cathy Harms  
  
**Joe Sabo** / Cecil Raynor, Pete Hodges, Bob Gabor, Terry Tenhouse, Bob Andrews and Judy Sanwald, Jim Rhodes, Les Hall, Alex Knittel, Bob Guenther; Roy Brookhart, Tom Hegele, Don Klemp  
  
**Karin Pihel** / Fred Ford  
  
**Jerry Rhoades**  
  
**Roy Brookhart**  
  
OPEN  
  
**Paul Holzworth**  
  
**Allen Campbell**  
  
**Barton Meeks** / Judy Sanwald, Paul Holzworth, Sue Bunch  
  
**Tom Revelle** / Leon Abbas, James Chamberlain  
  
**Roy Brookhart**  
  
**Chris Gebhardt**  
  
**Mike Payst**  
  
**Fred Ford**

## TWA SPONSORS

### **Ashcroft Saws and Tools**

919-876-3223

3125 Gresham Lake Rd. Unit 116

Raleigh, NC 27615

[www.ashcroftsaw.com](http://www.ashcroftsaw.com)

*25% off list on blades and 10% off on sharpening*

### **Capitol City Lumber Co.**

919-832-6492

4216 Beryl Rd.

Raleigh, NC

1-800-244-6492

[www.capitolcitylumber.com](http://www.capitolcitylumber.com)

*Special prices to TWA members*

### **The Hardwood Store**

1-888-445-7335

Gibsonville, NC

1-888-445-7335

[www.hardwoodstore.com](http://www.hardwoodstore.com)

*Discount: 10 cents per board foot*

### **Keglers Woodworks LLC**

919-608-7220

330 Dupont Circle

Raleigh NC 27603

[mkeglers@earthlink.net](mailto:mkeglers@earthlink.net)

### **Klingspor's Woodworking Shop**

919-876-0707

MacGregor Village Shopping Center

107 Edinburgh S Dr. Suite 151, Cary NC

(Exit 98B off of US 1)

[www.woodworkingshop.com](http://www.woodworkingshop.com)

*10% discount excluding lumber and power tools*

### **Tarheel Wood Treating Co.**

919-467-9176

10309 Chapel Hill Rd. (Highway 54)

Morrisville, NC 27560

[www.tarheelwoodtreating.com](http://www.tarheelwoodtreating.com)

*Contractor's prices on all wood products*

TWA card before order is written

### **Woodcraft**

919-781-1911 Fax: 919-781-1980

4317 Pleasant Valley Rd.

Raleigh, NC 27612

[raleighwoodcraft@bellsouth.net](mailto:raleighwoodcraft@bellsouth.net)

<http://www.woodcraft.com>

*\$25 gift certificate at each TWA meeting for the raffle*

### **Wurth Wood Group**

919-231-6620

4213 Poole Rd. (Exit 15 off I-440)

Raleigh, NC 27610

[www.wurthwoodgroup.com](http://www.wurthwoodgroup.com)