

Knothole News

www.greencountrywoodworkers.org



PRESIDENT'S MESSAGE



Greetings,

Please remember to bring your toys to me tomorrow (Dec 8th) from 10:00 AM until noon or from 3:00 PM until 6:00 PM. Mike Mitchell will pick them up from me and deliver them on Wednesday or Thursday.

Please call me if these times don't work for you, you need help with directions or if you need them to be picked up and delivered to me by someone,

we will make arrangements to be sure your gifts get donated.

My number is (918)492-8481.

My shop is at 11145 S 82nd East Place Unit L. Bixby OK.

Thanks so much for your generosity. Our work is always a big hit with the children and appreciated.

Bill Nay, President

Officers

President

Bill Nay 918-492-8481

Vice-President

Gregg Zumwalt 918-605-2761

Secretary

Bill Morgan 918-369-6435

Treasurer

Ray Hucek 918-618-2980

Club Committees

Continuing Board Member

Harold Blalock

Luncheon

Bill Morgan 918-369-6435

Membership Management

Vacant

Name Tags

Ray Hucek 918-618-2980

Newsletter

Mike Ruttgen 620-717-4520

Program Coordinator

Vacant

Toys / Show & Tell

Betty Zumwalt 918-249-4663

Toy Wheels & Axles

Jim Rouse 918-636-9286

Webmaster & Photographer

Arthur Barber 918-671-2437



Photos Submitted by Members

A fleet of Indy cars
for Toys for Tots.
And a close-up of
the drivers.
(Vinton Knarr)



I don't paint my cars because it
gives kids something they can paint
or apply stickers.

(Jim Rouse)

Photos Submitted by Members (Continued)

Acrylic paint was used for colored parts and the rest coated with 2 layers of shellac. For a top coat, water based polycyclic was used on all vehicles.

(Earle Smith)



Looks like Woodpeckers can make a perfectly round hole as well as any other woodworker! Holes are about 1.5" diameter.

(Gregg Zumwalt)

Tools For Sale

Bosch Planer (Model 1594) 6.5 Amps, base 3 1/4 in wide, 2 carbide blades, guide fence, and carrying case. 1 1/2 in hose fits dust port. My price \$40, current Amazon price \$136. It cuts and runs like new.



Porter-Cable 7.5 amp, deluxe Biscuit Jointer in excellent condition. Fence tilts from 0 to 135 in, one owner, manual, carrying case, and includes a box of 1000 biscuits (#0, #10 and #20) My price \$90. Woodcraft (\$229)



Seller is Earle
Smith at
ehs3943@gmail
.com.

918-404-6442
(cell)

918-286-7343
(home)



Article by
 Maxey, Randall.
 "PVA Wood Glue."
Woodsmith
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 10-11.

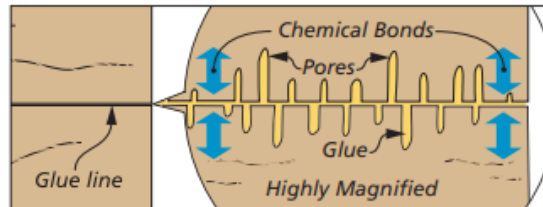
PVA Wood Glue

We all use wood glue in our projects and we take it for granted that it's going to hold joints together. Gaining a better understanding of how glue works can actually improve your results, however.

CHEMISTRY AT WORK. PVA (polyvinyl acetate) wood glue is the most common type of adhesive for the woodworking shop. It's the white or yellow wood glue you can find almost anywhere tools and supplies are sold.

But what is "PVA" and what does it mean for the woodworker? To answer this question, I contacted Bob Behnke, chemist and technical services manager at *Franklin International*, makers of *Titebond* wood glues.

Bob explained that PVA wood glues are basically a mixture of microscopic polyvinyl acetate polymer particles and



How PVA Wood Glue Works
 The polyvinyl alcohol surrounding the resin particles chemically bonds to the cellulose in the wood. The PVA resin contributes to a strong glue bond.

polyvinyl alcohol that is suspended in water. Glue manufacturers use other additives and fine-tune the amount of water to adjust water resistance, open time, and other properties.

As an interesting side note, original PVA wood glues were yellow due to the type of resins used. Today's PVA glues are naturally white. The glue is then colored to give it the yellow color customers expect. Given the same chemistry and additives, there's no difference in the strength or open time.

HOW DOES IT BOND? PVA glues work through a chemical bond between the polyvinyl alcohol and the cellulose in the wood, as in the illustration above. This chemical reaction, in addition to the strength of the PVA polymer, is what creates a tight bond in properly fitting joints.

A FEW REQUIREMENTS. For PVA glues to do their job, there are a few basic requirements. The first is that the joint must be gap-free and tight-fitting. PVA glues are not designed to fill gaps. (For this, you would need to use epoxy.)

Tips and Tricks (Continued)

Another requirement that causes some confusion is that the surfaces to be joined must be as smooth as possible. The common practice of “roughing up the surface” of the wood with sandpaper to create a mechanical bond simply doesn’t hold true. Sanding weakens the joint because it damages the wood fibers. An ideal surface is one that has been planed glass-smooth.

It goes without saying that the surfaces must also be clean and free of oils, finish, dirt, and dust. These interfere with the cellulose bond. Wiping with a solvent like acetone until the rag doesn’t show residue is good practice before applying glue.

GLUE APPLICATION. Before breaking out the glue and using it on a project, make sure it’s fresh (photo below). And give the bottle a good shake before opening it.

When it comes time to apply the glue, the ambient temperature and



▲ Write the purchase date on the bottle for reference. PVA wood glues have a shelf life of about two years.



▲ Surfaces to be glued should be clean and smooth. A thin layer of glue spread evenly across both surfaces yields a strong bond.

temperature of the wood can have an effect. Colder temperatures (less than 50°F) lengthen the open time and the time it takes for the glue to fully cure. (You should never allow wood glue to freeze.) Conversely, as the temperature heats up, the open time gets shorter.

To apply the glue, a thin, even film gives the best results (left photo above). Use a brush or your fingers to do this. For broad surfaces, Bob recommends a U-notch trowel with $\frac{3}{32}$ " notches. You can find these trowels where tile is sold.

CLAMPING PRESSURE. Once the glue is applied, you only have a few minutes to bring the joint together and apply the clamps. But here is where it gets interesting. You don’t need as much clamping pressure as you think. The most important element is a clean, tight-fitting joint.

Bob explains that if the joint fits properly, you only need enough clamping pressure (about 5 psi) to keep the wood




▲ Wait until the glue skins over and is partially dry before scraping off the excess. Avoid using damp rags.

from moving while the glue cures (about one hour). There’s no need to use all of your strength when tightening the clamps. Just make sure the clamping pressure is evenly distributed.

Clamping moldings, miters, or end-grain joints while the glue dries often poses a challenge. For these cases, see the box below for a solution.

CLEAN-UP. After the clamps are on, don’t touch anything for at least 10-20 minutes. Then you can go back and scrape off the partially dried glue (right photo above). Any residual glue can be sanded off after it completely dries.

Bob advises against wiping the glue with a damp rag. It forces glue into the wood that can show up in the finish. A damp rag also introduces excess moisture that can affect the joint strength.

Gluing up a project is something we often don’t give much thought to. Understanding how PVA glue works can help you obtain stronger joinery. 

“Skill without imagination is craftsmanship and gives us many useful objects such as wickerwork picnic baskets. Imagination without skill gives us modern art.”

Tom Stoppard (1937-)

Auction with Many of Tools

Estate

ONLINE & ON-SITE

Auction

Thursday, December 10, 2020

Location: 19140 E. 96th Street • Broken Arrow, OK

NICE
EQUIPMENT
Don't Miss Out

STARTS @ 9:18 A.M.

Directions: In Broken Arrow, OK from Creek Trpk Eastbound take New Orleans St. exit, turn W(L) onto New Orleans St., go ¼ mile to S 193rd E Ave/S 23rd St., turn N(R), go ½ mile to E 96th St., turn left, 2nd house on left. **OR At Jct Hwy 51 & E. 81st St. S** (QT Stoplight) go W(R) ½ mile to S 193rd E Ave/S 23rd St., turn S(L), go 1-1/2 miles to E 96th St. S, turn right, 2nd house on left.

For More Info & Pictures:
www.chuppsauction.com

TRUCKS, TRAILERS, GUNS, GRIZZLY LATHE & MILL, GRIZZLY WOODWORKING TOOLS, SHOP & MIC TOOLS, SPECIALTY TOOLS, WELDERS, PLASMA CUTTER, BLACKSMITH TOOLS and MUCH MORE!

ONLINE & ONSITE BIDDING: Lots 1 - 51 will be offered on simulcast @ 12:21 pm

- | | | | | | |
|---|--|---|---|--|--|
| <p>1 1997 Dodge Ram 3500 Truck 4-wheel drive w/ Cummins Turbo Diesel, 11' flatbed w/ gooseneck hitch & winch, odometer shows 245,199 miles, has new injectors</p> <p>2 1981 Toyota Flatbed Truck w/dual wheels, Standard Trans, 5' Bed, Gas Engine, 87,000 miles VIN JT4RN34R6B0023742</p> <p>3 Gooseneck 18' Flatbed Trailer, double axle, partial steel floor</p> <p>4 Bumper pull flatbed Trailer, 12ftx68" w/ dropdown tailgate</p> <p>5 Bumper pull Single Axle trailer w/ Miller Bobcat 250 Welder, 355 hr. w/ Welding Leads, Wilton Vise, Porter Cable Grinder, Pipe Vises, Toolboxes (Tools Not Included) 110 Plug Ins</p> <p>6 Miller Millermatic 210 Wire Welder w/ bottle</p> <p>7 Victor Cutting Torch Set on Dolly w/ Gauges</p> <p>8 Craftsman 1-1/2 HP 17" Drill press w/ laser model 124.34986</p> <p>9 Delta Shopmaster Grinder on stand</p> <p>10 Wilton Vise ~12" on stand</p> <p>11 Miller Maxstar 161STH Tig Arc Welder</p> <p>12 Hypertherm Powermax 30 Air Plasma Cutting System</p> <p>13 Miller Millermatic 211 Wire Welder</p> <p>14 Vulcan Heavy Duty Welding Cabinet on Wheels</p> <p>15 Metal Welding Table 4'x4' on Wheels</p> <p>16 Central Machinery Combination Sander w/ 6" Belt & 9" disc</p> <p>17 Southland Earth Auger 43cc 2-cycle gas engine, 26" handle</p> <p>18 Stihl BR350 Backpack Blower</p> <p>19 Cliff Carroll Forge & Tool Anvil ~70 lb.</p> <p>20 Blacksmith leg Vise</p> <p>21 Metal Work Table 27"x52" w/ Vise</p> <p>22 Buffalo Electric Grinder on stand</p> <p>23 100 lb. Anvil on stand</p> | <p>24 Ingersoll Rand 80 Gallon Upright Air Compressor-Like New</p> <p>25 Grizzly 24 Single Phase Heavy Duty Mill/Drill model G0755 w/ stand and Power Feed, 18" table</p> <p>26 Grizzly Combo Lathe & Drill model G9729 Single Phase w/ 30"x6" Table & Vise-Mill Swing 22"</p> <p>27 Cal-Hawk 16 speed 3/4HP Drill Press</p> <p>28 Grizzly 17" 2HP Band saw model G0513X2F w/ footbrake</p> <p>29 Grizzly Parallelogram Joints, Spiral Cutter head 8"x76" model G0490X</p> <p>30 Grizzly Polar Bear Series 10" Hybrid Table Saw model G0715P</p> <p>31 Shop Fox 13-1/4" 3/4HP Oscillating Drill Press Ser#18750 chuck size 5/8"</p> <p>32 Wood River Benchtop Mortiser</p> <p>33 Grizzly Polar Bear Series 15" Planer w/ Spiral Cutter head G0453PX</p> <p>34 Shop Fox Dust Collector, 1HP</p> <p>35 Craftsman 12" Dual Bevel Sliding Compound Miter Saw w/ Laser Track</p> <p>36 Cummins 1000 MM Wood Lathe, 39" Bed, 7" Diameter Head</p> <p>37 McCulloch Generator FG5700AK</p> <p>38 Briggs & Stratton Portable Generator 5500 Watt</p> <p>39 Craftsman 35 Watt Generator</p> <p>40 Kobalt 10" Table Saw on stand</p> <p>41 Bosch Professional BT152 Laser Level model GLL150E</p> <p>42 Barber Chair, Porcelain, Theo A Kochs Co., Chicago-Vintage</p> <p>43 Hitachi 10" Slide Compound Miter Saw w/ Laser</p> <p>44 LP 2-Burner on Stand</p> <p>45 Stihl MS170 Chainsaw</p> <p>46 Archer PSE Nova Compound Bow w/ arrows & Case</p> <p>47 Wood Workbench 4'x4' w/ vices and storage</p> <p>48 Stihl FT101 Limb Saw w/ Telescoping Handle</p> | <p>49 Central Machinery Compact Bender Floor</p> <p>50 Retractable Air Hose & Reel</p> <p>51 Craftsman Router w/ Bosch Router Stand</p> | <p>60 Beretta Mod A391 12 GA Extreme 2 w/ original box, owners manual and 5 chokes</p> <p>61 H&R 733 32 S&W w/ soft case</p> <p>62 Remington 1911R1 45ACP w/ 2 mags, original box & manual</p> <p>63 Ruger Vaquero 45LC w/ original case & manual</p> <p>64 Ruger MKIII Target 22LR w/ 1 mag, original case & manual</p> <p>65 Ruger Super Black Hawk 44 Mag w/ original case, 6-1/2" barrel, extra cylinder, locking hard case and manual</p> <p>66 N. American Arms Pocket Pistol 22LR</p> <p>67 Marlin 881 22LR, Bolt Action</p> <p>68 Ruger Super Black Hawk 45LC, w/ engraved cylinder, original case</p> <p>69 Ruger Super Black Hawk 357 Mag, 5" barrel, original box</p> <p>70 Ruger MKIII 22LR, 2 mags, original box, owners manual</p> <p>71 Tri-Star Arms T120 9MM, w/ generic soft case</p> <p>72 H&R 929 22LR, no sights, w/ holster</p> <p>73 RugerCP w/ CT 9MM Gwn 1, 2 Mags, soft case, I/P Holster w/ laser</p> <p>• Nearly complete set of Ruger Pistols</p> <p>• Ammo-22, 30.30, 45, 410, 357, 44 mag, Colt 45, 12 gauge-Lots</p> <p>• Cutting Torches, Hoses, Gauges</p> <p>• Acetylene & Oxygen Bottles-Lots</p> <p>• Lots of Welding, Bar, Pipe, Hand, C-Clamps</p> | <p>• Pipe Stands</p> <p>• Floor Jacks</p> <p>• Dewalt Cordless Tools</p> <p>• LP Tanks-various sizes</p> <p>• Levels & Squares</p> <p>• Face Shields, Welding Helmets</p> <p>• Ladders-Werner, Step Ladders, Fold-out Ladders</p> <p>• Dewalt Band Saw</p> <p>• Spoolmate 150 spoolgun Millermatic 211-200, 215</p> <p>• Electric hand tools-name brand - Lots</p> <p>• Welding Supplies-tips, ends, hammers, wire, rods</p> <p>• LP Burner</p> <p>• Vises-various sizes-lots</p> <p>• Blacksmith Tools-lots</p> <p>• Hammers for every occasion</p> <p>• Wrenches, Screwdrivers, Channel Locks, Sockets</p> <p>• Jack Stands</p> <p>• Air Tools for Everything</p> <p>• Bearing Separator Set</p> <p>• Impact Socket Set</p> <p>• Dewalt Radio</p> <p>• Roll-Around Tool Cart</p> <p>• Swivel Sockets</p> <p>• Storage Tool Boxes-Lots</p> <p>• Specialty Tools</p> <p>• Large Wrenches</p> <p>• Ball Joint Super Set</p> <p>• Cherry Picker</p> <p>• Car Ramps</p> <p>• Creeper Set</p> <p>• Roller Tables</p> <p>• Nails, Screws, Staples-Lots</p> <p>• Dewalt Miter Saw Stand</p> <p>• Wood Slabs, Misc. Woodworking wood</p> <p>• Shop Manuals</p> <p>• Drill bits-wood and metal</p> <p>• Mic Tools-Lots</p> <p>• Machinist Tools in Wood Box</p> <p>• Kobalt Tile Saw</p> <p>• Hand Tools, Woodworking Tools-Lots</p> <p>• Table Top Buffer</p> | <p>• Log Chains, Boomers, Come-Alongs - Lots</p> <p>• Delta Bench grinder</p> <p>• House Jack</p> <p>• Battery Chargers-various sizes</p> <p>• Small Portable Air Compressor</p> <p>• Small Portable Air Tanks</p> <p>• Refrigerant Gauges</p> <p>• Northern Industrial Manual Power Pressure Punch</p> <p>• 10-Drawer Organizer Bins (x2)</p> <p>• Air Nailers</p> <p>• Bosch Router & Guide</p> <p>• Milwaukee Impact Wrench</p> <p>• Dent Puller</p> <p>• Wood Chisels</p> <p>• Cordless Dewalt Tools</p> <p>• Shop Vacs</p> <p>• Saw Blades-Some Name Brand -Lots</p> <p>• Hand Saws-Lots</p> <p>• Air Bottle Jack</p> <p>• Rock Bar, Shovels, Rakes, Post Hole Digger</p> <p>• Rockwell Jaw Horse</p> <p>• Workbench Stands-Lots</p> <p>• 18" Magnet on Wheels</p> <p>• Scaffolding & Planks</p> <p>• Metal Square Tubing-Variou Sizes & Lengths</p> <p>• Channel Iron-Diff. Sizes & Lengths</p> <p>• Metal Post Drivers</p> <p>• Square Wood Posts-6'</p> <p>• Ryobi Metal Cutting Saw on Stand</p> <p>• Cosen Horizontal Saw</p> <p>• T-Posts</p> <p>• Misc. Gas Cans</p> <p>• Welding Rods, Punch Sets- Numbers & Letters - Lots</p> <p>• 4' Concrete Float</p> <p>• Yard Wagon w/ Sprayer</p> <p>• I-Beams, 17"x10" (x2)</p> <p>• Metal Trusses</p> <p>• Tommy Lift gate</p> <p>• Several Cattle Panels</p> |
|---|--|---|---|--|--|

Guns Sell
@ 11:31am

If you need any power or hand tools, you might check out the photos on the web.

The auction is in 3 days in Broken Arrow. Just search for Chupps Auction and click on upcoming auctions. (Mike Ruttgen)

ESTATE OF: **Jim Gorrell** OWNER: **Bonnie Gorrell**

GREEN COUNTRY WOOD- WORKERS

The Green Country Woodworkers are made up of men and women who are interested in woodworking as a hobby.

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The monthly meetings are conducted as educational forums for the benefit of our members and guests. We have idea exchanges, problem solving sessions, safety tips and tool tips plus a main speaker on topics related to woodworking in all its phases.

.....

The club sponsors community service projects such as making Toys for Tots at Christmas and supporting Beads of Courage by turning bowls and making boxes for children undergoing cancer treatment at Children Hospital at Saint Francis. The containers hold the children's beads. The beads represent their treatment progress.

KNOTHOLE NEWS

c/o Mike Ruttgen
rruttgen@att.net
(918) 200-9332, home

OBJECTIVES

- To provide the Knothole News, a monthly newsletter
- To promote woodworking and participate in woodworking and craft shows to inform the public of club activities
- To make wooden toys which are donated to selected organizations throughout the year
- Monthly Show & Tell; all items entered in the show and tell will be presented to the membership by the builder

Membership applications are available at each meeting from the club secretary or treasurer. At this time, no membership fee is charged.

MEETINGS

The club meets on the second Thursday of each month at 6:30PM, typically at a designated member's shop. The upcoming location and topic are published in advance in the Knothole News.

We also have a monthly dinner/social on the 4th Thursday of the month at 6:00PM; the location is determined during the regular monthly meeting.

WWW.GREENCOUNTRYWOODWORKERS.ORG

Please be sure to check out our new web site for more information about the organization, past Knothole News publications, pictures, resources, etc.

