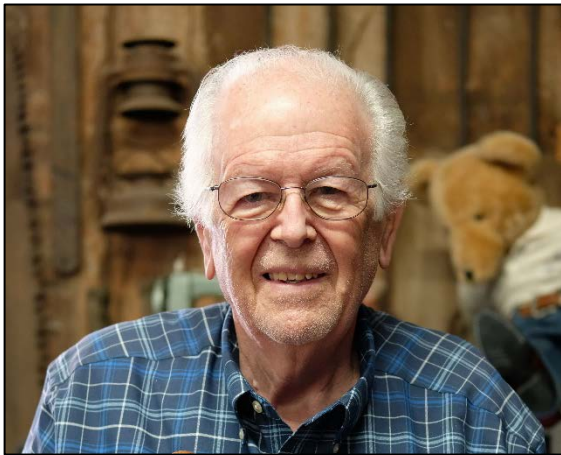


Welcome

In the absence of President Jay Stearns, Vice President Steve Yauch welcomed everyone to the meeting.

Announcements



We are sad to announce the sudden passing of long-time club member Larry Maughan of a massive heart attack on September 16th. There are no details available of services or burial at this time.

<https://www.dignitymemorial.com/obituaries/dallas-tx/larry-maughan-10360596>

We'll miss Larry's smile and all his contributions to the club!

Shop Questions

Brian O'Donnell is repairing a tabletop and is looking for pointers on how to match the color. Jim Polanco suggested using the underside of the table to get a match through trial-and-error. Dale Smith uses small cans of stain to mix on a trial-and-

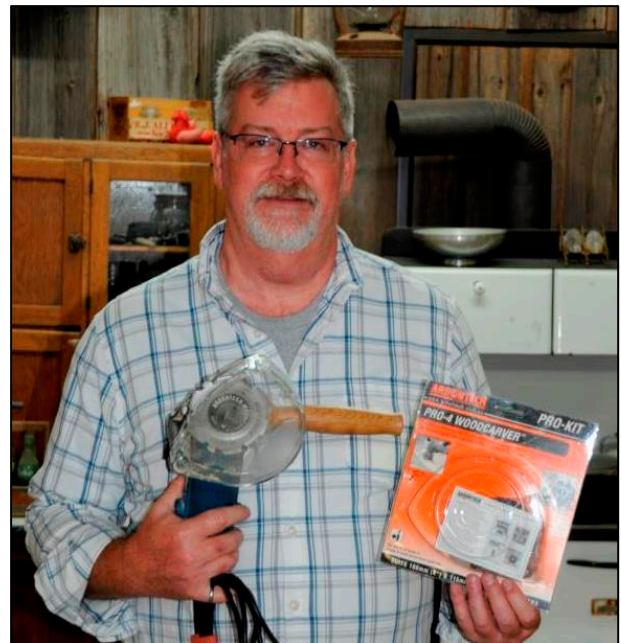
error basis. Dan Nilius suggested the use of a color wheel to get a good starting point. He had posted the color wheel he uses on our Facebook page.

Guests

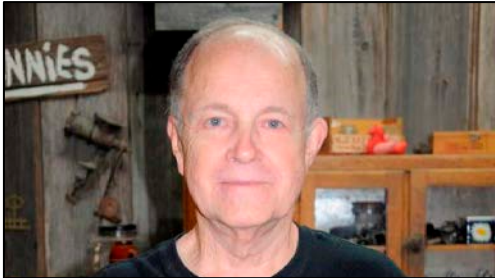
John Pike just moved from East Texas to Plano. He has been a woodworker for 4 years and enjoys making furniture.

Phil Umphres came as a guest of club member Bodie Pyndus. Phil has been doing woodworking for 40 years and likes to make cabinets and furniture.

Show & Tell



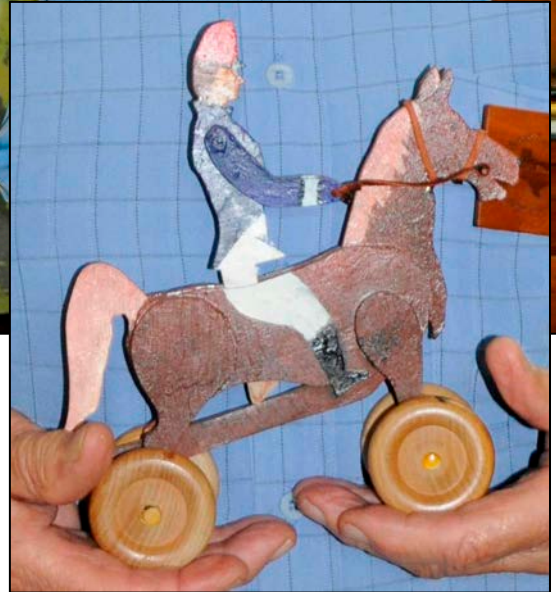
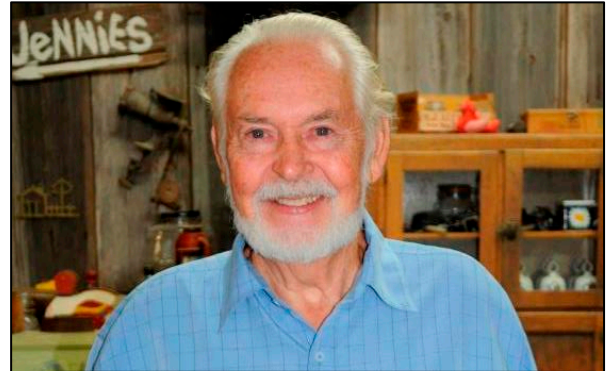
Steve Yauch shows off the Pro-4 Woodcarver attachment he picked up for his angle grinder. Says it makes fast work hogging off wood.



Gary Turman cautioned everyone to be on the lookout for fake Woodpecker tools. He bought this knock-off that is made of plastic and ultra-thin metal to make it virtually useless.



Ed Mastin made this small vise out of walnut to attach to a tabletop for small, detailed work.



Dale Smith made this pull toy.





Nello Armstrong brought his Winchester to the meeting to show off the restoration he did on this really old and reliable plane.

Raffle

Bill Jacobs: Moxon vise made and donated by Jim Polanco

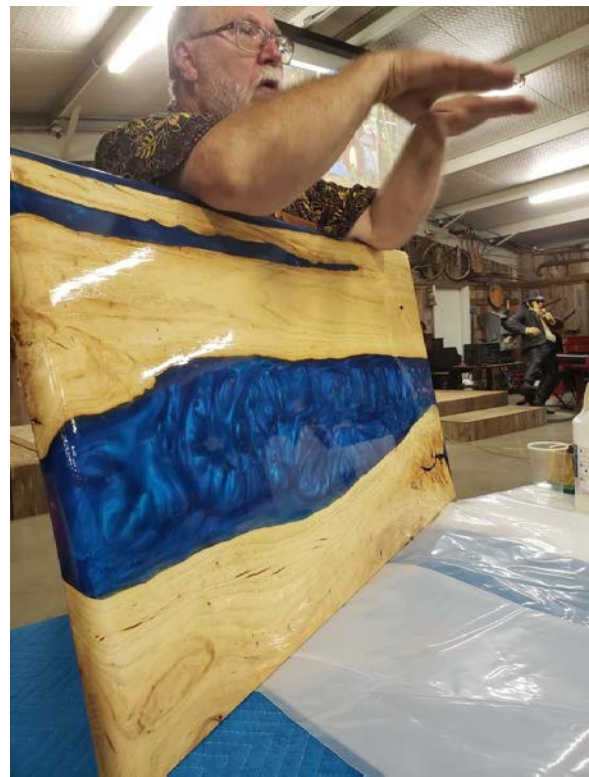
Dale Smith: COB Sewing Machine lights; 2 pack

Larry Maughan: 24" Starrett blade for a combination square.

Nello Armstrong: Shinto Saw rasp

Program

The program for the August meeting was presented by club members Dan Nilius on the use of epoxy resin in your projects. Dan is probably the most experienced member when it comes to using epoxy resin. Just scroll through back issues of the newsletter to see some of his amazing work.



Dan brought a wide range of samples of his work. One of his most impressive was his river table desk. The desktop is shown above.



You can see the wide variety of projects Dan brought to show how you can salvage otherwise useless wood and make eye-catching work.



Dan spent a lot of time talking about how to mix and apply the epoxy. He said to use your imagination

especially on molds. He saves many different ordinary food containers and buys cheap plastic bowls from the Dollar Store in a variety of sizes that work perfectly for many of his projects.

Because epoxy resin is so expensive (usually upwards of \$100 a gallon) Dan pours all leftover resin in a container and when the container gets full, he then decides what to make out of it. This is where the saved food containers come in handy.

It was a very educational evening and was obvious Dan really enjoys working with epoxy resins. See the Epoxy Resin handout that Dan put together at the end of his newsletter.

Next club meeting:
Tues., Sept. 21st
7:00 pm at the
Party Barn

Newsletter edited by: Joe Polich
newsletter@ntwa.org

Photos by: Nello Armstrong

EPOXY RESIN

By Dan Nilius

1. When & Why use epoxy resin in woodworking projects?
 - a. Game Changer for Woodworking Projects-Save beautiful Wood with Damage
 - b. Repairs, Strengthens, Bonds, Finishes
 - c. Adds color to projects, Engraving
 - d. River Tables
2. Tools & Equipment needed for Epoxy Resin Projects
 - a. Epoxy Resin
 - b. Mica Powder or Color Dyes (it is best to mix mica powder in the hardener because the hardener is thinner than the resin)
 - c. Mineral Oil Cleanup
 - d. Hair Dryer or Torch
 - e. Syringes, Measuring & Mixing Containers, Tape, Plastic sheeting, Plastic containers,
 - f. Color Wheel
3. How to Mix & Use Epoxy Resin
 - a. Normal Resin (Pro Marine) mix 1-1 resin & hardener 24 hour cure time 15-20 minute work time
 - b. Deep pourable Plastic Resin mix 2-1 resin to hardener, 48-72 hour cure time, hour work time. Good for River Tables or thick pours greater than 1"
 - c. CA-2 glue and developer for instant repair & patching
4. Epoxy Resin Application Techniques
 - a. Remove loose materials
 - b. Develop basic shape
 - c. Build molds (wood, paper, plastic, tape)
 - d. Determine volume or resin needed and color dyes
 - e. Mix, Pour, remove air bubbles and observe
 - f. Control Temperature & Ventilation as needed
5. Epoxy Resin Finishing Products & Techniques
 - a. Epoxy Resin as final finish
 - b. Odie's Oil
 - c. Rubio Mono-coat Plus Oil
 - d. Polyurethane

- e. CA-2 Glue and developer
 - f. Finishing Tools-Scraper, Sanders, Planer, Router, Scotchbrite pads
 - g. Observe finishes on back of River Table
6. Cost of Epoxy Resin & Materials
- a. Pro Marine Resin \$110 for 2 gallons
 - b. Deep Pourable Plastic \$225 for 3 gallons
 - c. CA-2 Glue and developer \$14
 - d. Mica Powders approx. \$20 for 50 colors in small bags
 - e. 1.5 oz of Turquoise mica powder \$15
 - f. Odie's Oil \$45 for a jar
 - g. Rubio's Mono-coat Plus Oil \$50 container plus developer
7. Building & Pouring Epoxy Resin River Tables
- a. Select Wood Size, length, and thickness
 - b. Determine suitable pour location considering size, lighting, ventilation, levelness
 - c. Build pouring enclosure
 - d. Line and seal pour enclosure (melamine, plastic, tape, caulking, spray mold release)
 - e. Position Wood in enclosure
 - f. Clamp or secure wood (Very Critical Step)
 - g. Calculate approximate volume & color
 - h. Obtain Resin and color dye
 - i. Mix resin, add color
 - j. Coat surfaces to eliminate air bubbles
 - k. Start pours and observe for leaks, air bubbles, inadequate securing
 - l. Finish Pours
 - m. Monitor and remove air bubbles
 - n. Maintain ventilation and cooling as required (thick pours)
 - o. Wait for cure time and sample before removing forms or plastic
 - p. Begin surface preps (planning, sanding, leveling, router, lathe) I have found 1000 rpm needed with sharp tools for lathe see examples
 - q. Make repairs (re-pours, patches, CA-2 glue & accelerator)
 - r. Sand to desired finish
 - s. Finish project using selected method (resin, poly; Odie's Oil, Rubio Mono-coat, or other?)