THE VILLAGE WOODWORKER

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June 2024

President – Nancy Kessler **Vice President – Steve Bolton**
VP Wood Operations – Vince Evans
Secretary – Aaron Cox **Treasurer – Jack Ernst**

Editor: **Glenn Nief** **Email: Glenn@TreeToBox.com**
Co-Editor: **Jerry Noeth** **Email: jerryn161@comcast.net**
Photographer: **Ben Lapointe** **Email: benclapointe@gmail.com**

Website: www.tvwoodworkers.com
Club email: tvwoodworkers@gmail.com

July 2	**General Meeting**	**Yacht Club**	**7:00 PM**	**Projects with Grandchildren**
July 27	**Business Meeting**	**Little Italy**	**8:15 AM**	**All Members welcome**
August 7	**General Meeting**	**Yacht Club**	**7:00 PM**	**Tool Swap**

Business Meeting Highlights: Attendance about 24 (all members welcome)

- Richard Ganch proposed DIY kits for Boys and Girls clubs, involving Tellico Village volunteers.
- Service projects: Our Place Phase I expansion cabinet completed; Phase II underway; Toqua sports bar cabinet in progress.
- Treasurer's report: $20,634 balance.
- Website updates by Bruce Barbre, including Resource Book corrections and membership list updates.
- Barry Brandt investigated hat options, decision to keep current design.
- Wood Operations: Next cutting scheduled, plans for barn organization and security cameras.
- Upcoming programs: Beads of Courage presentation, Tool Swap, Shop Tours.
- Potential Able Trade presentation and facility tour discussed. https://www.weareabletrade.com/
- Woodworking 101 interest noted; need for mentors and coordinator highlighted.

July 2 Meeting
Projects with Grandchildren

Presenters

1. Ned Miller (presented by Dennis Smith)
2. Chuck Turner
3. Lloyd Donnelly
4. Glenn Nief
5. Ken Harvey

FAQ

Chit:

A chit is earned when a member works a wood cutting session. With two chits, a member has a chance at a better selection position at a wood sale.

Show and Tell:

All show and tell participants are entered into a raffle using the randomizer for a first board pick at a sale within a year.

Volunteers needed

Wood Cutting:

Requests for Additional help - **Contact Bob Brown xxpat@charter.net**

Historic TVWC documents/items volunteer request

The club is revising the role and activities of the club historian, and is looking for volunteers to assist in converting archived print materials to digital media. If you have access to a scanner and are available to help us digitize our historical records,
Contact Ben La Pointe, benclapointe@gmail.com

Meeting Programs:

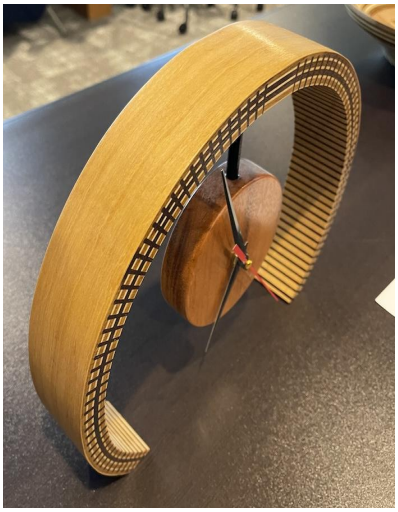
Requests for future program ideas - *Neil Wilson*
At every meeting we try and have a guest speaker, or member participation event. If anyone has a program idea, or wants to provide a certain woodworking experience you have, C**ontact Neil Wilson crawil@charter.net**

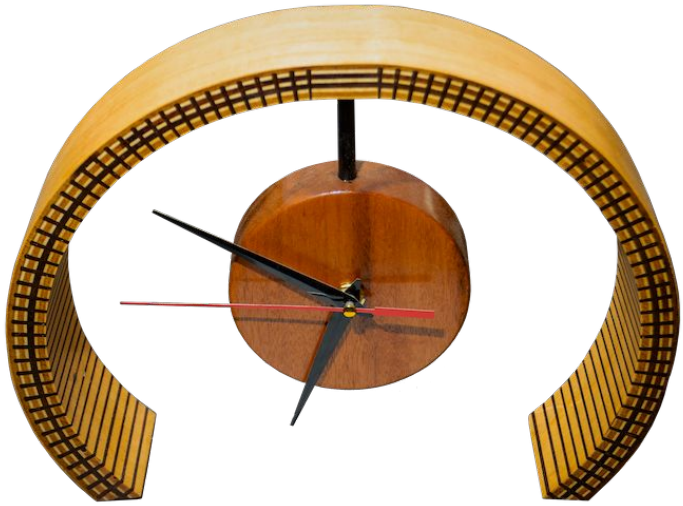
Meeting Programs:

Ned Miller is requesting a backup for him, especially someone who has contacts in the community. **Contact Ned Miller tennned@gmail.com**

Spring Challenge
Make something with Plywood

Dennis Smith
Spring Challenge - Distinctive





A computer program was used to know how deep and the spacing of saw cuts into the plywood that allowed the plywood to be bent into a 12” diameter circle.

Several plywood strips were used for experimenting on what material to use in the saw cuts that was strong enough to hold the shape when dried. A 5-minute epoxy was the first material used, but it was very messy and did not have a long enough set time so all the cuts could be filled before placing around the form. It was very expensive-probably would have cost about $50 for enough material. Next material tried was a black wood filler, but it was not strong enough to hold the shape when dried. The final solution used fine sawdust and wood glue, with a bit of red dye. I mixed it in a butter dish to the consistency of peanut butter. The mixture was placed in every saw cut with a small putty knife. The best thing about using this mixture was the long set time. Every void was able to filled before it began to set. Every void needed enough material so there was plenty of “squeeze out.”

The plywood strip was wrapped around a 12” diameter wooden disk. Packing tape was placed around the disk so glue mixture would not stick to it. A large radiator clamp held the plywood in place around the wood disk. It was allowed to dry/cure for about four days.

All the “dried peanut butter” was sanded off all surfaces. The clock portion was installed. The last thing was to use a new battery and set the correct time.

Don Naylor
Spring Challenge - Best Original Design

Don Naylor conceived an original design for a table with fan-shaped legs crafted from ¾" plywood, transitioning from straight at the base to rounded at the top. Using computer-aided design, he meticulously calculated strip lengths and angles, averaging approximately 3 degrees across six strips. Preferring glue and clamps over hardware, he drilled holes through slats and secured them with dowels for a seamless fan effect, later trimming the legs with precision using a miter saw.

Mounting the legs to the tabletop frame posed challenges due to varying notch widths and angles. After experimenting with techniques on a prototype, he used the cut-off tops of the legs as templates to notch the frame with a bandsaw. Each connection was reinforced with dowels and strong glue.

For the tabletop, Don explored plywood's potential, crafting a striking chevron pattern by cutting, arranging at 45-degree angles, and meticulously sanding the strips before finishing with Shellac and wax. Reflecting on the project, he values its originality and the craftsmanship required, eager to further develop his woodworking skills in future projects, possibly with hardwood.

Dick Hoffmann
Spring Challenge - Best in Show

"The Inventive Mind of Dick Hoffmann"

Several years ago, I made a plywood articulated horse.

When I saw a similar hummingbird, I wondered if with no plans, and only seeing it move, I could make one. Figuring out how the hummingbird move was the first part. There were 4 basic movements but after studying the original moving bird and a little trial an error, it was fairly clear how each movement was achieved.

- The body moves away and forward to the flower (using a counter-balance and rotating cam)
- The tail drops and fans out as the bird approaches the flower (gears and lever)
- The head lower into flowers center (pulled by a small rod attached to a gear)

All the time the wings are beating in and tilting with each wing stroke (a gear driven rod driving a double axes block that the wing shaft goes through). The most difficult task was making and spacing the gears. All the gears were made on a scroll saw so the first challenge was getting them as close to round as possible. If the gear circle was just 1/32” out of round and the center hole was off 1/32”, then as some point that gear would be off 1/16”. If the touching gear was also off a 1/16” then the combined error could be 1/8”. That compounding error would simply cause the gears to jam or break. To solve this problem, the gears needed to be reinforced. I re-sawed maple to 1/16” thick pieces and made 5 layered plywood: an outside layer of maple, fiberglass cloth, another layer of maple turned 90 degrees, fiberglass cloth and a last layer of plywood, all glued together with 5 ton epoxy. Finally, the gears were soaked in thin CA glue. Now the gears could be filed and sanded to get a reasonable fit. The final problem was securing the gears to a shaft so they could drive a cog, a secondary gear or rod to make the bird move. Glue would work for a short time but with stress and time, it would eventually not hold. I settled on using 1/8” round iron rod, with a 1/16” hole drilled in though the rod’s diameter. A pin inserted through the gears into the hole would work. However, this took a LOT of perseverance to thread a pin through the middle of a 3/16” wide gear in into a 1/16” you can’t see. After lots of trial and error, making and trashing 3 prototypes, cutting out over 50 gears of different designs and more than 120 hours of work over 3 months, the hummingbird finally flew.

Scott Duncan
Spring Challenge - Best Craftsmanship

The inspiration came from the TVWW challenge, a picture i saw in the AAW (American Association of Woodturners) and "light duty" prescription following back surgery.

The bowl explores end grain and side grain orientation of plywood combined with segmented turning techniques. There are 102 pieces in the bowl. The wood is typical 3/4" maple veneer plywood, walnut and cherry veneer and solid maple. The finish is Parfix CA glue.

Spring Challenge - Marty Shoffner

My thoughts for the design were that that I wanted to make something different and unique with plywood. My project is a wall shelf with a motif of many vertical pieces of ½” birch plywood. All were cut with my CNC and each piece is of a different size to create the project’s overall wave-like shape. The depth of the 36” long shelf is 6”. The back of the project is also ½” birch plywood but I plan to replace it with thicker walnut with a similar curved shape to match the overall shape of the project. The lower curved front of each piece has a black leather cord inserted in the edges for contrasting trim.

Spring Challenge - Randy Schwerdt

THE PUZZLE GAME: My puzzle game is constructed from 3/16” plywood. I cut 12 six inch squares and taped six squares together with masking tape. I drew my design of the six pieces on the top layer and then used a scroll saw to cut out the pieces of all six layers. Being careful to keep all pieces with their respective layer, I painted each layer and its pieces a different color. Each piece was numbered on both sides with the numbers being the same location in each layer. The uncut layers were glued to the cutout layers making a nice holder for the puzzle pieces.

The game is played by placing all the pieces in a bag and each player has a holder and a printed card identifying which pieces they need based on the color of their holder. The first player removes a piece from the bag and decides if it’s one they need. If not, they place the piece in an open area and pass the bag to the next player. The next player has the option to pick one piece from the open area or remove one from the bag. This continues until a player is able to collect all their pieces and properly place them in their holder. You now have a 1st place winner. Continue playing until all players have filled their holder. I would reward the players with a scratch-off lottery ticket chosen from a group of six tickets based on how they finished.

Show and Tell - Mark Gregory Presented by David Breen

Coffee table: 60"X24"x16" Design inspiration: Contemporary look. Self design.

Materials: 3/4" A1 Birch plywood, 1/4" underlayment, 1/2" plate glass, Pionite Chocolate Malt laminate. Formica #200 contact adhesive, Biscuits#20, Titebond 2 Glue, Durham's Rock hard Putty, Rust-Oleum Auto Primer Filler, Zinsser BIN Shellac Base Primer.
Tools: Table saw-Various Routers- Bosch Biscuit Jointer-Bosch Saber Saw-Bosch Orbital Sander-Wagner Flexio Sprayer. Lots of filling, priming and sanding to conceal all seams. Only biscuits and glue used on upper unit.

The Our Place cabinet project is complete!!!!

Our Place Community Service Project

Our Place, a non-profit Adult Day Care facility opened in March of 2022 and serves those who have been diagnosed with mild to moderate Alzheimer's or other forms of dementia.

Long-time club member, Jim Dezzutti, was instrumental in developing and establishing Our Place when he saw the effects of the disease on his aunt. Through hard work, research, requests, long hours, and much effort on his part Our Place in Loudon was born! This facility is such a wonderful asset to our community.

The Tellico Village Woodworkers Club constructed and installed the cabinetry in the new facility in 2022. Asked again in February of this year for another bank of cabinets, Lloyd Donnelly and Dick Hoffmann, proficient in the design software Sketchup, set to work. Many members participated in the project. Team Leaders include Barry Brandt, plywood cutting; Bob Brown, milling; Tom Borloglou, face frame construction; Aaron Cox, case flat-packs; Chris Silvestri, case construction; Ned Miller, shelves and countertop; Door, Bruce Barbe; Spray finish, Doug Bauman, Ben LaPoint, photographer. Coordinator Nancy Kessler states, "Down to the finish line, and we could not have gotten it done without the help of Scott Duncan and his installation team!" The project was completed in June 2024. Many thanks to ALL who contributed to this important endeavor!
The facility is located at 103 Cheeyo Way near Food Lion. Visit their website at www.ourplacetn.org and please consider a donation to this truly valued institution..

Wood Cutting June 24

Wonderful support from the club.

35 individuals who showed up at various times for the cutting, 15 at the first shift, 23 at the 2nd shift and 21 at the last shift. Thank you all for doing your part.

Below is the current Kiln inventory:

Species	Board Ft	Individual Boards
Club Cherry	290	42
Donor Cherry	406	56
Walnut	226	37
Total	922	135
Donors will get about 25 % of contributed wood		
about 106 BF and about 14 boards		

Members,
Please note, we wish to have the club speak with one voice/one directive. Please note this policy is effective immediately.
Thank you.
Nancy
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Club Communications Policy

Communication regarding Club activity, Club requests, Club direction, etc. at the Public Works Lot must be made by a Board Member, Wood Operations Manager, Kiln Manager, Kiln Asst. Manager, Wood Cutting Manager, or Wood Sale Manager. The purpose of this policy is to provide uniform representation by our Club. We must respect the POA workers time by avoiding misdirection or conflicting information occurring from too many people making our request.