



# Cedar Valley Woodworkers

Cedar Valley Woodworkers Association

Volume 13, Issue 4

May 2012



Dave Turner  
President

## Sawdust Sentinel

By Dave Turner

### Presidents Corner

When I was trying to get last month's Club meeting agenda to come together, it began to occur to me that a "spirit of Respect, Patriotism and Community" was evolving that would be framed in wood as the common denominator. We had people from three different organizations come as our guests to be presented with gifts. The gifts were; flag cases, bowls and other wooden objects. The flag cases were for the Columbus High School students, (Mr. Gary Schieder, their teacher), to display the American flag they received while in Europe and authenticated, indicating that it flew over Omaha Beach, America's Military Cemetery in Normandy, France. Additional flag cases, though larger in scale, were for the Honor Flight silent auction to help provide funds to send some WWII Veterans to Washington D.C. They were presented to Mr. Craig White. And finally, the bowls, serving trays, trivets and other wood objects were donated to provide funds to support the N.E. IA Food Bank. They were given to Mr. John Padget.

Recently, I attended the program featuring the students of Columbus H.S. They talked briefly about their life-altering experiences while over in Europe and saw displays featuring what they saw while there.

Excerpts of the thank you notes we received

from the students are attached. Then I went to the Empty Bowl Silent Auction Fund Raiser to see what was involved with that project. In talking with Mr. Padget, and seeing all of the other gift donations, it was obvious that it takes a lot of "behind the scenes" volunteers and other organizations to come together to make the Empty Bowl Silent Auction such a success for the benefit of the N.E. IA Food Bank. With respect to the Honor Flight fund raiser, for some of the elder warriors of WWII this trip Washington D.C. may have profound significance and provide a wonderful memory for them .

..... "Thank you for creating these wonderful flag displays", "it (the flag case) will make an even grander heirloom that I will pass on to my children and even (my) grandchildren", "this flag case means the world to me and will mean the world to my Mother. I raised the flag at Omaha Beach for my Grandfather", "These flag cases mean so much. You didn't just do this for us, but for the men that gave up their futures for ours. It is so much more than us" and there were many other equally gratifying comments.

### In Club Matters:

May program; we will have Glen Johnson as a guest speaker, talking about the various types of saw blades available on the market and when to use a particular blade and tooth configuration to make a cut safely.

Inside This Issue	
Presidents Article	1 ,3,4
The Oak Bulletin Board	2
For Sale	2
Minutes	5-6
Show and Tell	7
Mentors and Services	8
Sponsors	9
Officers and Committee Members	9



Grizzly "Heavy-Duty 10" Cabinet table saw, Model # 1023, 220 Volt \$525 Firm.

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Craftsman direct drive 10" table (extra blades too) saw with miter gauge & fence. It also has a leg set attached to the saw.

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**For Sale**

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[bjfee@cfu.net](mailto:bjfee@cfu.net)

**For Sale**

Shopsmith 520 with all

Accessories

Contact Terry Duckworth

At

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**The Oak Bulletin Board**

The regular CVWA Meeting Will be held at the Waterloo Center for the Arts 220 Commercial ST 6:30 PM May 8, 2012

The next Executive Board meeting will be May 16, 2012 at 7:00 PM @ Dave Turners Home 430 Prospect Blvd.

Scroll saw club meeting , Will be @ Art Mehman's Shop 1205 Fairview Ave Painfield .May 24, 2012

Corridor Wood turners meeting [Thursday May 10, 2012](#). Leisure Living Construction 2700 Sonegate CT Cedar Rapids.

**Editors Note:**

**Pictures for Why Wood Moves were unusable**

June program: will feature scroll sawing with, Barb. Gurney, Gary Lee Thurm, and Pat Vollbrecht.

July program: General Finishes representative.

August program, tentatively, we are working on having either, Jeff Weiland from Weiland Lumber or Mike Vermase, talking about wood properties.

Also, I am working on June is" (Wed) as a tentative date for a SHOP TOUR, day trip to Des Moines to the WOOD Magazine wood shop and Woodsmith/ShopNotes wood shop. I will let all members know as soon as I have the finite date.

Moving back into your shop, the hobby of woodworking, by its nature, creates "noise" or sound waves that are logarithmic and additive with a memory component to our eardrums. Translated, that means we are losing our hearing. "While it may seem awkward, being receptive to the use of the microphone will benefit of the Club's member listeners", that was the underlying theme that kept coming up at our recent Board meeting. So I will make every effort to be sure to have the microphones readily available to our speakers. s

I found this article very interesting and so I got permission from Fine Woodworking to use the article in its "entirety". It is from; Fine Woodworking, Issue#170, June 2004.

Be safe.

**Dave**

## A Closer Look Why wood moves

**BY BOYD A. HUTCHISON**

We constantly are reminded that wood is dimensionally unstable: Floorboards that butt tightly together in the summer have gaps between them in the winter; those drawers that fit perfectly last winter now bind and stick in the summer. This expansion and contraction of wood exposed to changing atmospheric humidity occurs because wood is hygroscopic: It has a chemical affinity for water in both liquid and vapor forms. This affinity is due to the chemical nature of the cellulose and hemi-cellulose compounds that largely make up wood.

### **Water is fundamental to a tree, living or dead**

The hygroscopic nature of wood plays a role in the transport of water and dissolved nutrients from the roots, up

through the trunk, to the canopy of leaves or needles, where photosynthesis produces the carbohydrates needed for growth and survival. In a living tree, water is found in two main areas: The cell walls are saturated with water bound chemically to the cellulose/ hemicelluloses fibrils that make up these walls, and the cell cavities are filled with free, or unbound, water.

After the tree has been cut down, evaporation removes the free water from the cell cavities. Now the wood *is* said to be at its fiber saturation point (FSP): Although the cell cavities are empty of free water, the cell walls still are saturated with bound water. This has no effect upon the size of the tree trunk or upon the dimensions of boards sawn from such a log.

However, any further drying has profound effects on the dimensions of boards. When wood dries to a moisture content below its FSP, the cell walls shrink and buckle (see the bottom drawings on p.88). Although the cross-sectional dimensions of the cells are reduced, very little change occurs in their lengths. The cause of this unequal shrinkage lies in the makeup of the cell walls and the orientation of the cells in the wood

**Why boards change in width, Non Length** The bulk of the fibrils in the cell walls spiral around the cell cavity so that the long axes of the fibrils roughly parallel the long axes of the cells. Because the changing amounts of water in a fibril affect its diameter but not its length, this behavior translates to changes in cell thickness but not in cell length.

Cells are oriented vertically, parallel to the long axis of the trunk. But a significant minority of the cells are oriented perpendicular to the long axis of the trunk. These two cell orientations determine a board's stability as its moisture content changes. A greater number of vertically aligned cells means the board is most stable over its length. A smaller number of horizontal cells in the rays makes the radial dimension more stable than the tangential dimension. This means that a quarter sawn board is more stable in width and less likely to distort than a flat sawn one. A good rule of thumb is that tangential (flat-sawn) movement will be approximately twice the radial (quartersawn) movement

### **Why woods differ in stability**

Some woods are dimensionally very stable (catalpa, eastern red cedar, sugar pine, mahogany, teak), yet others are noto-

riously unstable (paper birch, black oak, sweet-gum). The differences in stability result from differing contents of lignin and other extractives, as well as the anatomical structure of different species .:

lignin serves as the glue holding wood cells together, greatly adding to the rigidity of wood. lignin is not hygroscopic, so the greater the amount of lignin in cell walls, the greater the dimensional stability of the wood

Similarly, extractives that convert sap-wood to heartwood also are mostly non-hygroscopic. Thus, woods with high extractive contents tend to have greater dimensional stability.

**The relationship between humidity and moisture content**-As a result of the hygroscopic nature of wood, for any relative humidity (RH) in the air, there is a corresponding equilibrium moisture content (EMC) in the wood. If wood is immersed in air at some unchanging RH, the amount of bound water in the cell walls eventually will stabilize at a fixed value, The graph on p. 90 presents the relationship between EMC and RH. While the solid line represents white

spruce, most other species have relationships between humidity and moisture content that fall within the shaded area. Species with high lignin and extractive content occupy the lower portion of the shaded area, and woods with fewer lignin's and extractives occupy the upper portion. At 100% RH, the EMC of wood is equivalent to its fiber saturation point, meaning the cell walls are saturated with water.

### **Let the lumber adjust to your workshop**

Lumber stored in my shop with a moisture content of 11 % to 12% in late summer will drop to 5% or lower in late winter, when the central heat is on. Consequently, the wood in my shop has an EMC at least 6% lower in winter than in summer, when the RH inside and outside is more comparable, as my windows and doors are nearly always open.

This annual variation in EMC translates to tangential dimension changes of about 1/16 in. across a 12-in.-wide flat sawn cherry board. (For a simple algebraic method of approximating dimensional changes in wood, you should read *Understanding Wood: A Craftsman's Guide to Wood Technology* by R. Bruce Hoadley [The Taunton Press,

2000]). Armed with this knowledge, use it to let lumber acclimatize to your workshop.

How long should you wait?-Most of the wood I buy has been kiln-dried. Unfortunately, my suppliers do not say, or do not know, how long the wood has been out of the kiln or how it was stored during that period. So how do I know when the moisture content of the wood is in equilibrium with the humidity conditions in my shop?

Using a moisture meter, I quickly can establish the moisture content of a new batch of lumber and compare this value with other lumber that has been in my shop for some time. If the moisture values between the new and old lumber differ, which they nearly always do, I stack and sticker the new batch of lumber and wait a week or more for it to acclimate. Before I bought a moisture meter, I always stacked and stickered new lumber for two to four weeks to be sure that it wasn't going to move during construction.

You may think this is overkill, but some years ago I was commissioned to build an entertainment center of tulip poplar finished with milk paint. I purchased 300 bd. ft. of kiln-dried poplar, assuming that it really was kiln-dried. Big mistake!

There were 14 frame-and-panel doors with double-pinned through mortise-and-tenons. I built the piece, installed it, and was called back a month later to find at least a 1/2-in gap between each rail and stile. The poplar could not have been anywhere near the 7% to 8% moisture content that kiln-dried cabinet lumber should be upon coming out of a kiln. I made 14 new doors (I did salvage the original panels), bought a moisture meter, and have not repeated that mistake. O

**Fine Woodworking Issue 170 pp 88-91  
Taunton Press**

**Wood Magazine and  
ShopNotes Tours**

**6-13-12 More Info to follow**

**CVWA Meeting Minutes 4-10-12**

President Turner called the meeting to order @ 6:25 P.M. He reminded members to silence the cell phone or to put them on vibrate. He also ask for courtesy for the speakers by refraining from talking during their time up front. There were a total of 76 present plus the individuals that were there to speak.

He thanked Jim Wright, Duane Huisman, Chuck Backman, and John Mohlis for bring treats for the members. There was also another individual that brought treats that I did not get their name. Sorry.

Jim Brandhorst was thanked for his contribution of magazines to the club and his giving of a notebook containing the patterns he had to lend out or give away.

Dave also spoke to the fact that a binder has been established listing the patterns that are available for the clubs use in making items for fund raisers or the Salvation Army Christmas program. These will also be listed on the web page.

There were (4) four guests present at the meeting, in addition there were (8) eight students from Columbus High school, some of their parents and Gary Schnieders (their teacher). There were (71) members present for the meeting.

There were two individuals that joined the club.

Dave told the members about what is scheduled for programs in the next few months. Which are: May -Glen Johnson – talking about saw blades, Pat Vollbrecht, Barb Gurney, and Garylee Thurm teaching about scroll sawing and techniques, and July Ryan Denney from General Finishes.

Dave mentioned the board meeting that will be held on the 3<sup>rd</sup> Wednesday of each month. The meeting will be at 7 P.M. at his home on Prospect Blvd. He also mentioned that the 2<sup>nd</sup> V.P. position is still available. Also he pointed out that board members now have yellow name tags to identify them as board members.

Dave asked speakers to please use the Lavalier or hand-held Microphone when speaking.

Dave mentioned the tours that are being planned at Woodsmith/ Shop Notes (DMIA), Kreg Jigs (HUXLEY, IA), & WOOD Magazine. The tour will take place in May. More information to come!

John Padgett and a representative from the food bank were there to accept the bowls and other wood items for the food bank “empty bowl” fundraiser. Kevin Bierman, Pete Cullum, Roger Gast, Gordon Pint, and Pat Vollbrecht contributed items.

Craig White from “Honor Flights for WW II veterans” accepted

(3) three large flag boxes for a fund raiser for the veterans. Bob Hewlitt, Bob Colby, Dick Buchanan, and Dave Turner were involved in making them. Rex Pershing and Warren Brecheisen donated wood for the boxes.

Seven students from Columbus and their teacher were present to accept flag cases for 3 X 5 flags that they had flown over Normandy as a tribute to the fallen veterans or for their individual grandparents that had severed over there. Dennis Gilroy, Bob Hewlitt, Dick Buchanan, Dave Turner, Gene Knief, and Pat Vollbrecht were involved in making the boxes. These same individuals donated wood for the flag boxes.

Dave spoke to the fact that the video of Dick Buchanan’s “turning contraption” will be put on the website and also loaded up to You Tube.

Show & tell consisted of a bible/book holder by Garylee Thurm, a turned bowl and top by Kevin Bierman, and a inlay pattern and example by Pat Vollbrecht.

The lucky winner of the raffle was Kenneth Walleser and he took a digital height gauge. The lucky tape measure was won by Don Baker. Roger Jordan’s contributions of plastic knobs, were won by Ken Schwake and Roger Bluhm.

Mr. Scott Tuttle from Acme Tools in Cedar Rapids, along with the sales representative, Brian Flatley, from Festool were our presenters during the demonstration portion of the meeting.

**Respectfully submitted****Pat Vollbrecht****CVWA-Board Minutes April 2012**

President Turner called the meeting to order @ 6:55 P.M. All current board members were present.

The treasurer’s report was presented and accepted by the board.

The following members will be dropped because of nonpayment of dues. Jim & Jeanine Begalske, Roger Butts, Bob Glawe, Greg Kloberdanz, Larry Knavel, Bryan Redenics, Rick Ruport, George Schumacker, Tom Tackenberg, Vernon Tapper, Nic Utley, Dusty Wood, and Jim Wright.

May Program w/ Glen Johnson-he will be talking about the saws blades and sharpening, - June program w/Barb Gurney, Garylee Thurm, and Pat Vollbrecht talking about Scroll sawing (which includes compound cutting, scroll sawing bowls, and inlay techniques – July program w/General Finishes President to email Mr.

Ryan Denney on specifics of what he will talk about and cover, and August Program- Jeff Weiland or Mike Vermaase from Weiland Lumber will come and talk?

Dennis Gilroy will contact Glen Johnson, Art Mehman, and Bill Neil about touring their shop this year. The picnic will be held at the fairgrounds in Waverly, which Dennis will reserve.

A letter was received from attorney Eric Johnson about our corporation annual meeting minutes. Dave will call the attorney's office and ask them some questions about this. Normally this is done in Nov. and the minutes are forwarded to the attorney.

Dave will send thank you notes will be sent to the individuals presenting programs. The decision was made to add excerpts to the Newsletter from some of the Thank You letters received from the students.

Some Board members, as well as other members of the Club, may be attending the ceremony @ the Grout Museum. The Columbus H. S. students that received the flag boxes at the April meeting will be talking about their trip to Europe. Thank you notes received from the students were read at the Board meeting. Two tee shirts (featuring the trip to Normandy) were donated to the club and Bob Hewlitt and Dick Buchanan were the lucky winners of these shirts.

All speakers will be required to use the lavalier or hand-held microphone while speaking at club meetings. Also, members who present their item for show-n-tell will need to use, either the hand-held microphone or the lavalier microphone. Concern has been voiced about not being able to hear from the speakers; so it has become necessary that we adhere to this practice. The hobby of woodworking, by its nature, creates "noise" or sound waves that are logarithmic and additive with a memory component to our eardrums. Translated, that means we are losing our hearing. "While it may seem awkward, please be receptive and use it for the benefit of the Club" was the underlying theme that kept occurring.

Discussion was held about being courteous to the speakers while they are presenting. Often times, there is talking between members, which is disruptive to those around you who are trying to hear what is being said. But also, when the presenter is speaking, the extraneous talking among the members, while not loud, is sometimes enough to distract him or her and cause them to lose their train of thought, and can be quite disconcerting. Additionally, as a professional organization, CVWA, discussion focused on being considerate of our guests and presenters at all times. Continuing, grievances and egregious concerns, personal in nature, should be addressed on a private basis –not in front of all Club members. President Turner will remind Club members that civil discourse and respect for our guest speaker still applies.

A new file cabinet/storage unit will be constructed to set on workbench. It will be used to house the overhead projector, camera and other such items. Dave Turner and Reed Craft both said they would donate the lumber. Dave Turner and Bob Hewlitt will get together and design a plan and possibly have a "construction/assembly day session", along with other member wanting to help see it come to fruition.

There has been established a pattern folder/file containing patterns available to members for borrowing. They will also be put on web page. The individuals having the patterns will be listed so members can contact them to borrow them.

A sawmill business listings has been made by Dennis Gilroy. It still needs some tweaking before it is published.

Wanda Bailey will research the individuals that are not in photo directory and consider adding them to the gallery. She will also reinstate the process of having show and tell items identified with the maker's name and item description.

Gene Knief will do some checking into a branding iron made for the club.

The video made by Dennis Gilroy and edited by Dick Buchanan of, "The turning Contraption", and also made by Dick Buchanan, will be posted on the web and You-tube.

**Respectfully submitted**

**Pat Vollbrecht**

**Cedar Valley Woodworkers**

**Treasurers Report April 17, 2012**

<b>Beginning Balance</b>	<b>3137.52</b>
<b>Income:</b>	
<b>Dues</b>	<b>75.00</b>
<b>Raffle</b>	<b>127.00</b>
<b>Dividends</b>	<u><b>.25</b></u>
	<b>202.25</b>
<b>Expenses:</b>	
<b>2462--Postage</b>	<b>18.20</b>
<b>2463 Staples-Envelopes-CD covers</b>	<b>14.22</b>
<b>2464-Keith Bailey-Website-2011-2012</b>	<b>400.00</b>
<b>2465-Wanda Bailey-Paper -Reports-newsletters-one year</b>	<b>52.91</b>
<b>2466-BettyVollbrecht-Bus cards</b>	<u><b>19.16</b></u>
	<b>504.49</b>
<b>Ending Balance</b>	<b>2835.28</b>
<b>Office Fund</b>	<b>2180.93</b>
<b>Tool Fund</b>	<b>654.35</b>

**Respectfully Submitted**

**Paul Bailey**

# Show and Tell Fundraiser Night



**Upper Left:** Flag Cases for two different groups Columbus High School Students and AMVETS service club: Construction was done by Bob Hewlitt, Bob Colby, Dick Buchanan, Dave Turner, Dennis Gilroy, Pat Vollbrecht and Gene Knief. Wood was donated by Rex Pershing, Warren Brecheisen and the above named construction crew

**Upper Right:** Scroll Baskets donated by Gordon Pint, also donating to the Empty Bowel fundraiser but not pictured Pat Vollbrecht, Kevin Bierman, Pete Cullum and Roger Gast

**Lower Left Show and Tell:** Pat Vollbrecht, Inlayed bowel and pattern

**Center Below Show and Tell:** Kevin Bierman, turned bowel and top

**Lower Right Show and Tell:** Garylee Thurm Bible/ book holder



List of Mentors for Club Members. I believe the mentor's time is free, but the person being mentored is expected to cover any material costs.

Canoe/Kayak construction, Chip Schmidt, 277-8504, cschmidt@cfu.net

Detailed Toys, Bob Anderson, 239-7763, wtoys@yahoo.com

Jack of all trades (enjoys a Challenge), Hank Morris, 277-0692, hankannam@aol.com

Has the Ability to figure MOST problems out—Dick Buchanan, 277-2477, rbuchanan@cfu.net

Intarsia, Pat Vollbrecht, 232-1923, patV35@mchsi.com

Fretwork, Garylee Thurm, 279-3219, flytying4u@hotmail.com

Cabinet making, Tom Bussey, 641-435-4354, tebussey@gmail.com

Wood carving, Sid Sidler, 233-1396, sidsstudio@aol.com

Furniture and cabinet building, Jerry Krug, 475-2391, jkrug@netins.net

Equipment Maintenance and repair Bob Colby 268-0883

### Classes and Services for Pay by Fellow Club Members

*Sharpening services by Glenn Johnson, 641-435-2511*

*Sharpening Stone Sales Gary Lee Thurm 319-231-4577*

### NEW PATTERN TEMPLATE LIBRARY

Your executive board has developed a new loaner program that might be of interest to each of you. Though the contribution of several different individuals the following full size templates are available for check-out by club members:

Nativity set:

Rocking horse:

Two different doll cradles

Should any of you have a pattern template set that your willing to share, call a board member!

Please remember to patronize our Sponsors!

\*\* Member ID required for discounts



### **Woodsmith Store\*\***

10320 Hickman Road

Clive, IA 50235

515-254-9494 or

1-800-835-5084

### **Pittsburgh Paints**

528 West 5th St.

Waterloo, IA 50701

319-234-1739



**\*\*501 West 1st Avenue  
Durant, Iowa 52747-9729  
800-344-6657**

**Glenn's Sharpening  
32446 Floyd Line St,  
Nashua  
641-435-2511**

**Acme Tools \*\*  
1943 Blairs Ferry Rd.  
Cedar Rapids  
319-363-2211**



**10% Club Discount  
www.hartvilletool.com**

**Contact Pat Vollbrecht for  
details**

**319-232-1923**

**Sherwin Willams  
5212 University Ave,  
Cedar Falls  
Offers club members A  
Scheduled discount**

**319-277-1034**

## **Officers and Committee Members**

### Elected Committee Members

<b>President</b>	<b>Dave Turner</b>	Committee Member	<b>Reid Craft</b>
<b>1st Vice President</b>	<b>Terry Duckworth</b>	Committee Member	<b>Hank Morris</b>
<b>2nd Vice President</b>		Committee Member	<b>Robert Hewlitt</b>
<b>Secretary</b>	<b>Pat Vollbrecht</b>	Committee Member	<b>Dennis Gilroy</b>
<b>Treasurer</b>	<b>Paul Bailey</b>	Club photographer	<b>Wanda Bailey /Bob Glawe</b>
		Refreshment Chairman	<b>Bob Anderson</b>
<u>Appointed Committee Members</u>		Newsletter	<b>Jim Wikle</b>
Committee Member	<b>Gene Knief</b>		