

Meeting Notice:

January Tuesday the 17th at
5:00 PM

Location: Bldg 131, Ash Conf
Rm

Subject: Sawhorses, templates.

Project: A tool you made

Knot News

COLLINS WOODWORKERS GUILD NEWSLETTER

This month:

Sawhorses, Templates

January starts the new year with new hopes and new projects!

To work on a project, many of us have a universal, versatile workhorse—the sawhorse. I found an easy review of the sawhorse at the following web site:

<https://wiki.ezvid.com/best-sawhorses?id=adw&qclid=CM6Fv5PqptECFQwLaQodtQUBcA>

Popular Mechanics has [5 simple sawhorses](#) that review our favorite thing – to build our OWN sawhorses.

I created a knock-down set from personal experience, with the ability to fit in the trunk of a small car.

There are many purchase options, from heavy-duty metal, light-weight plastic folding sets, and kits where the purchaser simply inserts/attaches 2x4 to the brackets.

I will demonstrate and have the pattern for my knock-down sawhorses.

... continued on pg 3

Toy deliveries! The Collins Woodworking Elves were hard at work in one of Santa’s workshops to finish up the wooden airplanes, crayon trucks, cribs, and flipper games. These wonderful elves then helped deliver the toys to St Luke’s pediatrics and Mercy pediatrics. Here’s hoping that every boy and girl had a wonderful surprise awaiting them along with a cure and healing.



November Meeting:

By Joel Gillett

The meeting went well.

There is a design change to the crayon trucks driven by the donation of a large number of wheels that are bigger than we were using. Wayne added a sub axle



support and re-drilled some holes and we have a monster truck (see picture below).

Richard Wolfe was the only one with a project, a candle holder he made from a salvaged stair rail in a house where his wife had lived as a child. That made picking a winner easy.

Duane Webber took the general door prize by drawing his own name out of the hat that I had borrowed from him. I need to remember to bring a hat next time if that's how it happens.

Upcoming projects:

January: A tool you made yourself

February: Something for a child or with a child

March: Favorite measuring tool

April: Favorite woodworking book or magazine

May: Strangest tool in your shop

June: A tool you've modified

July: Whatizit? – A tool others are unlikely to guess what it is

August: A favorite woodworking jig

What would you think about a swap meet?

Toy Build

We made a lot of progress on the toys. Ray and Brian agreed to deliver them with minimal coercion and we didn't have to resort to blackmail.



Crayon truck build.



Flipper game assembly



We need ideas for new projects. Here is an opportunity to show off something that you have made. Suggest it as a project of the month.

We would really LOVE to come see your shop. Would you be willing to open your [garage] door some time?

Sawhorse ho—down! extracted from Wiki.EZVid.com

Types of Sawhorses

The sawhorse is a simple, yet essential tool for anyone who works in construction or carpentry or loves to complete do-it-yourself projects. Most sawhorses are made of the same basic type and construction and serve similar functions. They are usually constructed of two sets of legs that are joined together by a beam at the top. They also have brace beams that give it that infamous A-shape.

There are four basic types of sawhorses, the most common of which is the **wooden sawhorse**. Many people opt to make their own wooden sawhorses, but some prefer to buy them already made to get features that they can't construct. If you cut into the wooden sawhorse while working, it will not cause any damage to your saw blade and can be repaired easily.

The second most popular type of sawhorse is **metal**. These are often made with hinges for easy folding and portability and are used for cutting other types of metal. They can be found in industrial settings. They are less common for residential projects because the metal can damage wood. Most metal sawhorses are made from steel, and if they are well cared for and kept out of the elements, they will last for several years.

The third and even less common type of sawhorse is the chainsaw horse. It is a heavy duty sawhorse and is difficult to build at home. This sawhorse is used for cutting large pieces of wood or logs with a **chainsaw**. It is often found in the timber industry. It is usually made out of metal because of its durability, but some of these sawhorses are still made from wood.

Finally, some manufacturers sell **lightweight sawhorses** that are built specifically for portability. Some of these sawhorses even have storage compartments for holding your tools, and many fold for added transportation convenience.

You will find sawhorses being used in pairs on construction sites or home improvement projects. They can hold wood or other materials for measuring and cutting and can even hold wide planks or plywood to create a functional workbench. Even the lightweight sawhorses are built to withstand a lot of weight and can support the pressure of a circular saw and even hold several heavy duty tools at once.



A Brief History of the Sawhorse

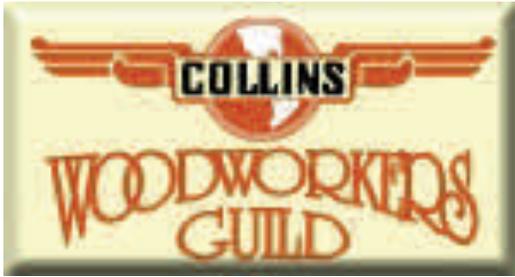
The exact origins and history of the sawhorse are unclear, but what is clear is that it has been used for centuries. There is an illustration in the book *De Re Metallica*, published in 1556, that depicts a millwright supporting beams between two sawhorses. It seems that the sawhorses were made of halves of logs with legs secured in place against them. Other documented uses of sawhorses were in the mid to late eighteenth century.

The basic form of the sawhorse is so useful and functional that it hasn't changed over centuries of continuous use and advancements. Even though new elements such as shelving for tool storage, height adjustments, and folding for portability have all been added over the years, the *basic shape and construction remains the same*.

The sawhorse remains one of the most necessary and useful tools found in any wood or metal worker shop, and sawhorse varieties made from a range of materials can be found in garages and construction sites around the world.

The most complicated type of sawhorse in existence is the treteau **French trestle**, and it is considered more of a *work of art* functioning as a base for creating ornate roofs. The complicated creations do not change the basic functionality of the sawhorse but simply add an aesthetically pleasing appearance.





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This month:

Dust Collection

What Club Web Page?

Did you know the club has a web page? Do you ever use it? I doubted anyone ever looked at it until recently when a member noticed a typo. “Yep, that was my fault. Thanks for pointing it out. Sigh.”

OK, so the web page has some problems. It’s not pretty (cartoonish icons, hodgepodge of fonts, etc.) and it’s built around an antique database that’s largely outside my control. And it’s not mobile-device-friendly, or ADA-compliant, or available *en espanol*, *¡por Dios!* But it is useful for some things. When your president (Joel, not that Donald guy) suggested I

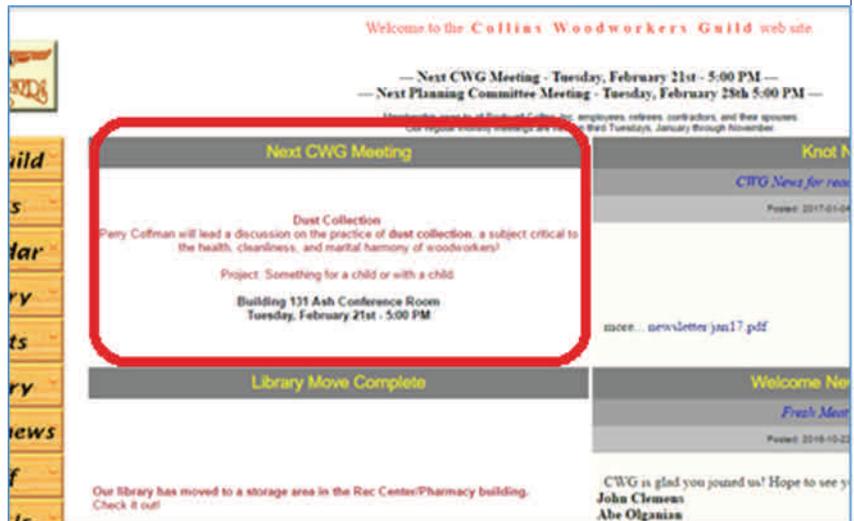
try to enlighten you a bit, I decided a series of short newsletter articles would be more palatable than one big monstrosity. So here is episode number one.

The web page gives you the earliest possible look at next month’s meeting. Do you have a life? Do you need to plan your activities weeks in advance? Must you juggle your social engagements? Well, you’re a woodworker so no, probably not. But on the odd chance you do have a conflict on the third Tuesday of the month, you will find a summary of next month’s meeting on the web site weeks before anywhere else. (Of course plans sometimes change, so check your newsletter too.)

Sorcery! Is this possible?

Everyone knows we meet on the third Tuesday of the month, except for special events. What you may not

know is that your club leadership [*cough, cough*] meets on the following Tuesday, either virtually or in person, and finalizes plans for the next meeting. I then update the web site, generally within 24 hours, or about **three weeks** before the meeting. It looks like this, front and center on the home page:



“Cool. Where is that web page again? I think I bookmarked it on my Commodore VIC-20, or maybe it was on the TRS-80...”

Click this <http://rockwellcollinsclubs.com/clubs-ia/woodworkers/>

or scan this

or pull out your membership card, turn it over, and type what you see.



Next month: A useful feature for accessing the library that nobody knows about. Until then, keep clicking around.

Jerry Roland

January Meeting:

By Joel Gillett

A couple folks brought their sawhorses in to the meeting and shared the construct and usefulness.



Ron's new folding sawhorse.

Joel Gillett's traditional sawhorse below:



Sawhorses, Jigs

Some of the tools our guildworkers made include a wooden chisel mallet. A pair of clamping squares, and a set of wood chisels.



For Children or With Children.

An example of working with children is Joel Gillett's class picture (no, not graduation!)

A time honored tradition of handing down our skills as craftsmen to share our passion for hand crafting useful projects from raw



materials nurtured in our world, and are a renewable source of raw material.

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an opportunity to show off something that you have made. Suggest it as a project of the month.

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Dust Collection Hi-lites

Health & Safety to you

Project Protection

Proper Setups

This month:

Dust Collection

MAKING SAWDUST

By ASA CHRISTIANA DEC 17, 2012

In 2002, wood dust went from being a nuisance to an official health risk. That's when the U.S. government put it on their list of "known carcinogens," linking it to a variety of nose, throat, and lung cancers. But it has taken our corner of the woodworking industry a while to catch up with reality.

Collecting and exhausting dust at its source, before it reaches you, is the most efficient way to deal with wood dust. That's why woodworking machines—from tablesaws to disk sanders—come with exhaust hoods or ports. "A typical exhaust hood," industrial hygienist Richard Supples of Applied Improvement Technologies in Shelton, Conn., explains, "creates a capture velocity and effectively 'grabs' the dust particle and transports it through a duct/filter away from the worker."

DUST COLLECTION SYSTEM

FROM WIKIPEDIA, THE FREE ENCYCLOPEDIA

This article includes a list of references, but its sources remain unclear because it has insufficient inline citations. Please help to improve this article by introducing more precise citations. (April 2010) (Learn how and when to remove this template message)

A dust collection system is an air quality improvement system used in industrial, commercial, and home production shops to improve breathable air quality and safety by removing particulate matter from the air and environment. Dust collection systems work on the basic formula of capture, convey and collect.

First, the dust must be captured. This is accomplished with devices such as capture hoods to catch dust at its source of origin. Many times, the machine producing the dust will have a port to which a duct can be directly attached.

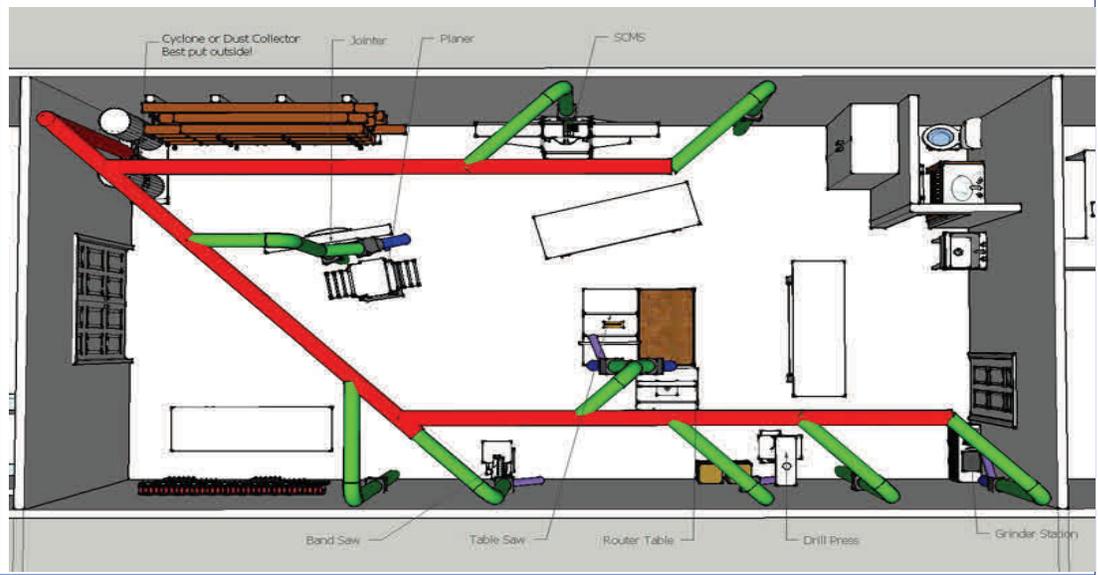
Second, the dust must be conveyed. This is done via a ducting system, properly sized and manifolded to maintain a consistent minimum air velocity required to keep the dust in suspension for conveyance to the collection device. A duct of the wrong size can lead to material settling in the duct system and clogging it.

Finally, the dust is collected. This is done via a variety of means, depending on the application and the dust being handled. It can be as simple as a basic pass-through filter, a cyclonic separator, or an impingement baffle. It can also be as complex as an electrostatic precipitator, a multistage baghouse, or a chemically treated wet scrubber or stripping tower.

FROM BILL PNETZ WEB SITE ON WOODWORKING CYCLONE DUCTING:

Layout & Ducting Design

Ducting layout is not that difficult, but the details must be done right to ensure a good working system. Unfortunately, most of the popular woodworking sites, dust collection vendors, and even dust collection books recommend large shop traditional graduated ducting designs that will not work safely with typical small shop dust collectors and cyclone systems. Although we all enjoy having bragging rights and a shop full of all different sizes of ducting looks incredible, for these impressive looking ducting designs to work in our small shops we would need monster sized blowers able to collect from all our tools working at the same time. These blowers would cost a fortune to buy, install, maintain, and run. Instead, our small shop blowers only move enough air to collect from a single machine running at once. With just one ducting run at a time open, we need much simpler ducting designs than the commonly recommended graduated ducting designs that collect from all tools working at the same time.





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Project: Favorite measuring tool

Knot News

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This month:

Make Your Bed

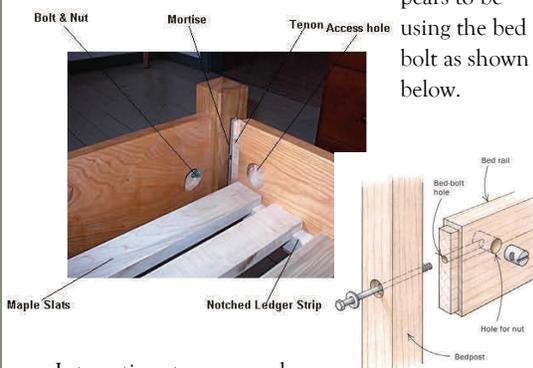
Sleeping in the bed you made!

Did your mother ever tell you to “sleep in the bed you made”? It may not be what we are going to discuss at the CWG March meeting, but you really CAN sleep in the bed you make! We spend one-third of our lives sleeping in bed, but this piece of furniture also is a place to read, watch TV and play with the kids during waking hours. For those reasons, a bed needs to be extra sturdy. You also need to be able to knock it down easily into parts to get it up or down stairs and through the door.

From mission style, to arts & crafts; from trundle to lofts, from infant to twin to queen to king, and everything in between, choosing a bed style is much like choosing which candy bar to buy.



Connecting rails—the most common method appears to be using the bed bolt as shown below.



Integrating storage may be an issue depending on the room and available closet space. Many people use under the bed for storage, as well as the headboard. I built a new headboard for our new bed to integrate for knick-knacks as well as books, the remote, lotion and the alarm clock.



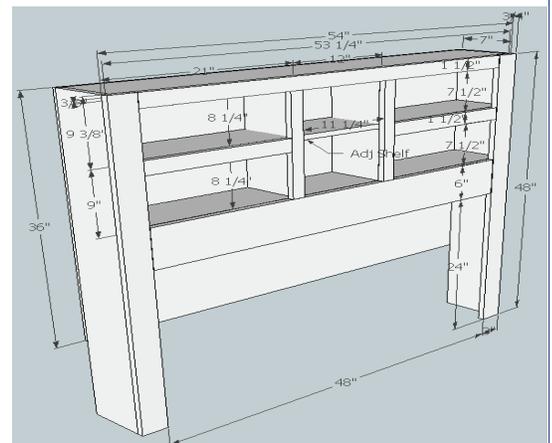
Construction details go beyond the bed bolt. How to integrate rails, the design of the headboard, using slats for the bed support all play out in the planning.



Multi-functional bedrooms are coming back. In the image on the left is seen where the Murphy bed when stored, a Murphy Desk is created. This month we will be discussing a bunk-bed construction by Bryan Wesner. Thanks Bryan for sharing your construction woes and triumphs.



Paul's Sketcup of his headboard:



February Meeting:

Perry Coffman presented the science and health risks for dust collection. As mentioned in last month's Knot News, dust collection, or at least remediation, is a requirement for commercial industry. The use of dust collection tools in our shops is a **MUST!** The consumption of dust in our lungs exceeds that of commercial sites by as much as a month's worth in just one day in our shop! The primary concern was particles less than 10 microns. Perry presented a couple low cost options with cyclone and shop-vac options. Other options offered included a simple box fan with a furnace filter.



Dust Collection

We should also use NIOSH approved masks for sanding. Perry handed out a



white paper on the science of dust and the affect on the human body. References to Bill Pentz' web site on Woodworking Cyclone Ducting, Woodshop Dust Control, by Sandor Nagyszalanczy, woodgears.za web site references.

Perry presented a cyclone collector he made from using a purchased cyclone as a pattern. See his white paper attached with this newsletter!

Well done Perry!

February Project: For Children or With Children.

Quite a number of projects were presented, from Perry's pictures of a toy chest and cedar chest, a number of toy vehicles, a doggy bank, coin operated basket ball, CrackerBarrel golf tee game, cell-phone/iPad music 'speaker' box, doll cradle, belt holders.



number of toy vehicles, a doggy bank, coin operated basket ball, CrackerBarrel golf tee game, cell-phone/iPad music 'speaker' box, doll cradle,



Toy cars, shelf pattern, and doggy-bank

Catch-up from January's sawhorse / templates.

Paul Gibbs, and Ron Kozitsky presented their finished sawhorses. In addition, Paul presented the pattern and the template used to make his knock-down sawhorse. He also presented a number of templates used in making various games, cribbage, a card-deck hole template, and shelf pin template.



Prizes were given out—Perry won the gift card from the Project presentation. Paul Gibbs brought some tools donated by Dan Geiser from Dan's fathers tool collection and they were given as door prizes.

Other discussions

The general membership discussed going on a field trip. The Milwaukee Show was cancelled, and the other location was considered too far to travel for the membership. Floyd Wesselink shared that a relative was opening a new sawmill.

Link's Sawmilling and Woodworks, LLC
 Cedar Rapids, IA
 Max Link, Owner
 Phone: 319-270-7044
 E-Mail: maxlink89@yahoo.com

facebook.com/linkssawmillingandwoodworks
 Other locations for discussion: ACME—they have been very supportive; Woodsmith in Des Moines—both the video location and the Woodsmith Store. Many members were supportive of going there. Langhoffs north of Marion—they would be willing to cook burgers/hot dogs. No final decision was made, the leadership will make contacts and determine alternative dates.

Paul Heyd had three sets of bandsaw blades he gave away! Great job on Recycle/Reuse/Reduce!

Next month:

tbd

If we cannot come visit your shop, maybe you'd be willing to share your shop layout, some of the "do-overs" you would recommend from your experience, and some of the favorite features of your shop?



How about a favorite tool in your shop and how you've make jigs and "use it all the time"?



Did you know? According to the US DOL: Bureau of Labor Statistics:

Quick Facts: Woodworkers	
2015 Median Pay ?	\$29,470 per year \$14.17 per hour
Typical Entry-Level Education ?	High school diploma or equivalent
Work Experience in a Related Occupation ?	None
On-the-job Training ?	See How to Become One
Number of Jobs, 2014 ?	237,200
Job Outlook, 2014-24 ?	-1% (Little or no change)
Employment Change, 2014-24 ?	-1,400



Upcoming projects:

March: Favorite measuring tool

August: A favorite woodworking jig

We would really LOVE to come see your shop. Would you be willing to open your [garage] door some time?

April: Favorite woodworking book or magazine

May: Strangest tool in your shop

What would you think about a swap meet?

June: A tool you've modified

We need ideas for new projects. Here is an opportunity to show off something that you have made. Suggest it as a project of the month.

July: Whatizit? – A tool others are unlikely to guess what it is



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Location: Bldg 131, Ash Conf Rm

Subject: TBD

Project: *Strangest tool in your shop*

Knot News

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This month:

Visit to Meredith Corporation

To present and publish

Ten members visited Meredith Corporation headquarters in Des Moines on Saturday, April 8th. A tour lead by Craig Ruegsegger Multimedia Editor for BH&G Wood Magazine showcased the video studio and the workshop where the projects are made. We also visited the offices and the conference room where the magazine comes together.

We first went to the filming studio where all the shots for the Wood Magazine are accomplished. There are 4 [walls] angles that are shot to give a “garage” view, or a “shop” view. Below is a “garage” view with the concrete-style flooring where Joel, Craig and Perry are standing. To the right is a preview of one of May’s Wood articles on building a smoke-house (sorry for the fuzzy photo). Craig took us upstairs to see the actual shop where many of the materials are cut and prepared.



On the way, we got to see many of the projects made for the magazine, and even some projects that never made it to print. While we were walking up to the shop, we saw a number of cubicles with various projects. An example of a clock and the wall chess caught my attention.

(Continued on Page 3)



What Club Web Page? Part II:

This is the second in a series of articles about the Guild's web site. Last month I promised to introduce a useful feature for accessing the library that nobody knows about.

Let's suppose you want to get into the library, whether to borrow a tool or browse the magazines or whatever. (As soon as I have a free half day, I'm going to borrow the Drill Doctor and tune up all my crappy twist drill bits!) You've been paying attention and you know the library has moved to the Collins Rec Center building. You might even know the cabinets are secured by padlocks. But what's the combination?

You can always call or email a club officer and hope for a prompt and helpful reply, or you can find it on the club web site. Where and how?

Library Information & Rules

The Guild Library is located in the building hosting the Rec Center and Pharmacy. An employee badge is not needed to access the club storage area.

Library materials are contained in storage lockers and file cabinets. The keys to the file cabinets are in the upper storage locker, and the lockers are secured with combination padlocks.

The combination changes on occasion, so please retrieve the current combination (below) before visiting the library.

Please use the Guild web pages to check out and check in the item.

All loans are for three weeks. Items can be re-loaned if there is no interest on the reservations list.

Member's Last Name:

Library Key:

Collins Woodworkers Guild

Welcome to the **Collins Woodworkers Guild**

--- Next CWG Meeting - Tuesday, March 21st - 5:00 PM
--- Next Planning Committee Meeting - Monday, March 13th

Membership open to all Rockwell Collins, Inc. employees, retirees, contractors, and
Our regular monthly meetings are held on third Tuesdays, January through June

Toy Build	Next CWG Meeting	
Links	TBD Meeting topic and location are under consideration. Stay tuned! Project: A favorite measuring tool	You are bidding on p There is a mix of onk. a
Calendar	TBD Tuesday, March 21st - 5:00 PM	This auction is being se Minimum bid \$500.
Gallery	Library Move Complete	
Events		
Library		
Knot Knaws		

Start by clicking the [Library](#) button on left edge of the page.

Then select [Library Access](#) from the top of the page.

Finally, enter your name and library key, then click [Show Library Access](#). You will be rewarded with the padlock combination.

If you get to the library and discover you don't have the combination, you can use the Courtesy Internet computers in the Rec Center. You need not be a member.

Next month: the newsletter archive.

Collins Woodworkers Guild Library

[Library Access](#)
Library Help

Techniques & Skills Hand Tools Routers Finishing Carving Turning & Lathes Tool Safety/Knowledge General Skills	Video Collection Marc Adams Videos	Guild-owned Tools Miscellaneous Encyclopedia & Guides	Woodsmith Collection 1979-1983 (1-30) 1984-1988 (31-60) 1989-1993 (61-90) 1994-1998 (91-120) 1999-2003 (121-150) 2004-2008 (151-180) 2009-2013 (181-now)	ShopNotes Collection 1992-1995 (1-30) 1997-2001 (31-60) 2002-2006 (61-90) 2007-2011 (91-now)
Woodworking Projects			Search August Home Publishing for ShopNotes & Woodsmith articles. Return here to check our collection. SEARCH	

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April Meeting:

While we were in the shop, we observed numerous tools—many, many clamps and hand planes. Projects in process from previous issues of Wood, as well as new ones for the upcoming issues. We also observed that there were many ‘piles’ of tools and wood laying around much like in our shops, although on a much smaller scale. There were four (or was

Meridith Corporation visit (continued)

ums. There were plenty of cabinets filled with bits, blades and variety of measuring tools.

We concluded our tour in the conference room where all the articles come together. Thanks Craig for an outstanding day!



that 5?) band saws, a radial arm saw, a couple of drill presses, a center-piece contractor table saw, many drawers filled with more tools, and plenty of saw dust, even with a dust collection system, and various vacu-



March Meeting:

March Favorite measuring tool.

Bryan Wesner presented his bed frames and know-how in building new beds. Thanks Bryan!

Bed Construction





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Meeting Notice:

May: Tuesday the 16th at 5:00 PM

Location: Bldg 131, Ash Conf Rm

Subject: Cabinet Cases

Project: Strangest tool in your shop

Knot News

COLLINS WOODWORKERS GUILD NEWSLETTER

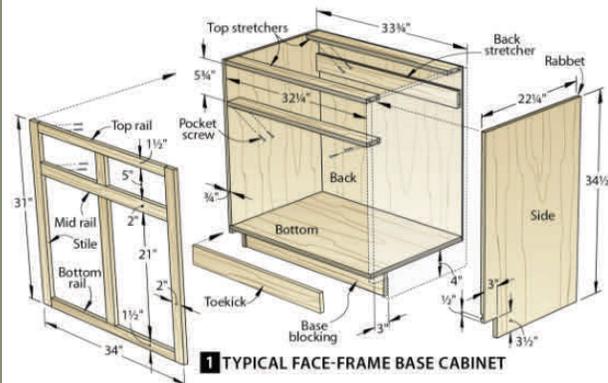
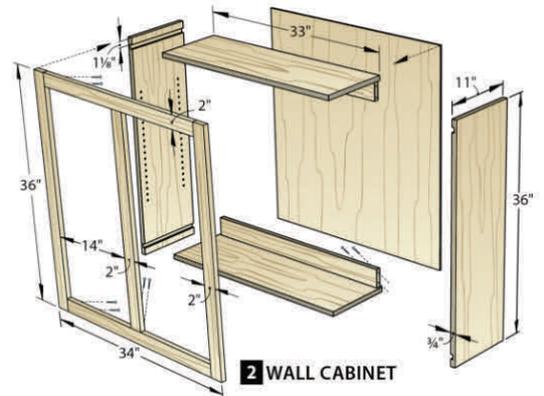
This month:

Cabinet Cases

From one of our favorite magazines, Wood, we hear about building cabinet cases. *Big? Yes. Difficult? Nah. With only basic woodworking skills, a tablesaw, and a few simple tools, you can make custom cabinets for your home or shop.*

Begin with the right cabinet dimensions. The sample base and wall cabinets shown below have these features to make building them as simple as possible:

The 3/4" plywood case eliminates panel jointing, planing, and glue-ups.



Face frames cover plywood edges. Overlaps on the sides let you fine-tune the cabinet width during installation.

Plywood-panel doors and drawer fronts require no routed profiles.

The drawer slides we recommend provide lots of mounting flexibility and the chance to undo minor mistakes.

Standards help you design

Over the years, cabinetmakers have standardized some cabinet dimensions based on practical considerations, such as the average height of people. You needn't adhere strictly

to these, but vary them at your own risk of discomfort.

Standard base cabinets measure 34 1/2" high, for a 36"-high work surface with a 1 1/2" countertop.

At 24" deep, standard base cabinets allow you to bend over and reach in to retrieve anything at the back.

Make cabinets as wide as you like, but remember that the wider the doors, the greater the tendency to rack and warp. Also, the wider the door, the more clearance you'll need in front of the cabinet.

Standard wall cabinets measure 12" deep. Deeper cabinets hinder access to the countertop below.

Wall cabinets commonly mount 18" above the base-cabinet countertop.

See more at <http://www.woodmagazine.com/make-cabinets-the-easy-way>

Come and hear what Perry Coffman will share in our May woodworking meeting about cabinet building!

What Club Web Page? Part II:

This is the third in a series of articles about the Guild's web site. Last month I promised to discuss the newsletter archive.

The screenshot shows a vertical navigation menu on the left with items: Toy Build, Links, Calendar, Gallery, Events, Library, Knot Knews, Staff, and Join Us. The main content area features a grey bar for 'Next CWG Meeting', a section for 'To Be Determined' with a project 'Strangest Tool in your Shop' at 'Building 131 Ash Conf Room' on 'Tuesday, May 16th - 5:00 PM', and another grey bar for 'Library Move Complete'. A red box highlights the 'Newsletter Archive' link, with an arrow pointing to it from the text below.

Our library has moved to a storage area in the Rec Center/Pharmac Check it out!

possible they were never published.

That's fine if you know which issue you're looking for. But if you're searching for an article, opening and scanning each issue can quickly get old. A relatively new feature helps with that. Nineteen years' worth of newsletter has been condensed into three compilations. You can open any in your favorite PDF reader and use its search tool to zero in on the item of interest.

It's also interesting to just browse the old newsletters and see how much the woodworking world has changed in twenty years. Spoiler alert: Not much. Not much at all.

Next month, *What Club Web Page?* will take a break because I will be on vacation. Articles will resume in July.

Everyone gets a copy of the newsletter when it is published. And our newsletter editor is doing a great job so it's worth reading. But what if you want to browse old newsletters, or search for an article from some time ago?

The left side of the web page has a "Knot Knews" link. Hey, I didn't name it so don't blame me. Anyway the link takes to a listings of all available newsletters back to 1996. A few issues are missing. It's

The screenshot shows the 'KnotKnews' website with a grid of links for individual issues from 2017 to 2011, and compilation links for 2014-2010, 2009-2000, and 1999-1996. A red arrow points to the 'Compilations' link, and another red arrow points to the 'Individual Issues' text.

KnotKnews						
2014 - 2010	2009 - 2000	1999 - 1996				
2017	2016	2015	2014	2013	2012	2011
November	November	November	November	November	November	November
October	October	October	October	October	October	October
September	September	September	September	September	September	September
August	August	August	August	August	August	August
July	July	July	July	July	July	July
June	June	June	June	June	June	June
May	May	May	May	May	May	May
April	April	April	April	April	April	April
March	March	March	March	March	March	March
February	February	February	February	February	February	February
January	January	January	January	January	January	January

This month's project is *the most unusual tool in your shop*. What is a poor man's drill bit? Maybe a heavy-duty nail puller? Bring it, have us guess what it is, and if we fail, you have to joy of having one up on us!



What could the image in the right possibly be?



Upcoming projects:

June: A tool you've modified

July: Whatizit? – A tool others are unlikely to guess what it is

August: A favorite woodworking jig

What would you think about a swap meet?

We need ideas for new projects. Here is an opportunity to show off something that you have made. Suggest it as a project of the month.

We would really LOVE to come see your shop. Would you be willing to open your [garage] door some time?



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Meeting Notice:

July: Tuesday the 18th at 5:00 PM

Location: A Park, Marion,

Subject: *Camping Supplies*

Project: *Whatizit? – A tool others are unlikely to guess what it is*

Knot News

COLLINS WOODWORKERS GUILD NEWSLETTER

This month:

Camping Supplies

It's summer! Our outdoor activities generally increase this time of year, including our woodworking. The weather is much more acceptable to open up the garage door, or some windows to allow the fresh air to circulate. We often think about those outdoor projects as well.

Camping
Camp box/Camp kitchen



Picnic tables
Benches/Chairs



Games—Cornhole,



June Meeting:

The CWG had one of its strongest showings yet with 20 members attending the visit to Langhoff's Log and Lumber. Langhoff's Log and Lumber started in 1964, established by Bud Langhoff as a trade from his father-in-law for some logs. The primary log saw is a 60 inch blade with replaceable teeth. The Lumber business is only a part of the farm business. In addition they do tractor, trailer, and farm equipment welding and repairs, and farming.

Ralph Jr explained the business, and how they came to be the large provider of lumber and tractor repair they do.

We learned that in the early 60's there was a large industry and demand for wood with over 60 sawmills in existence in Iowa. Now there are less than 25. The current demand is for low-grade, stressed wood, with "character", but this changes for each person that walks in.

Ralph explained how mishaps cause major injuries when an employee isn't paying attention. After discussing the main sawmill, we had a wonderful meal of grilled hotdogs and hamburgers, chips, water and soda.

Then we were treated to homemade cookies!

We held the meeting portion of our visit. Joel lead the meeting with the June membership drawing. Joel won the gift card. Then

This month's project is *Whatizit? A tool others are unlikely to guess what it is.*

A DoHickie, CamClanker, Flumbuster? Names from Dr Suess books?? What's in your shop??

If one of you would like to share your shop in a newsletter, please contact the RC.CWG.newsletter@gmail.com.

NOTE: Does anyone have a way to measure the air-flow in a dust collector air duct? Please contact Larry Hanson (lphanson@gmail.com)

Upcoming projects:

July: Whatizit? – A tool others are unlikely to guess what it is

August: A favorite woodworking jig

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Langhoff's Log and Lumber



we listened to each contributing member's modified tool—see the article on this subject.

At the conclusion of the meeting, Ralph took us to the planing shed. It was their old hog farrowing building.

The process to bring the lumber down from the rough-sawn lumber to near finished consists of several passes through the planer.

100% of all the by-products from the lumber is used. Saw dust is used for cattle bedding, ends can be used for sculptures and taxidermists, and there is always need for firewood.

We ended the tour in the sales shop. There were many species, and the prices was very good for woodworkers. Ralph does appreciate when a customer brings their finished products for them to see. He certainly enjoys working with woodworkers as each customer has unique needs and character reflected in their projects and choice of woods. The most important advertising they use is word-of-mouth, so be sure to tell all your family, friends and fellow woodworkers (and anyone needing repair to tractors/equipment).

We even made Google search!!

woodworkersguild@rockwellcollinsclubs.com

rockwellcollinsclubs.com/clubs-ia/woodworkers/

Next CWG Meeting, Langhoff Log & Lumber Farm Visit Topic: Langhoff Log & Lumber Farm Visit
Food and drink provided. Project: Strangest Tool in your Shop

Last Month's project: A Modified tool in your shop

We had some interesting items brought to the June meeting. Perry had several items, a marking tool that he inserted into a hand-made wood sheath since the marking tool was the same material and texture as the surface of his saw so he wanted to distinguish the marking tool. There was a model rail adjustment tool, Bill brought his miter guide, a modified spade bit was presented, and Joel modelled his beach planer.



What Club Web Page? Part IV:

This is the fourth and final in a series of articles about the Guild's web site. This article will help you learn who is running this monkey house.

At the September membership meeting where we elect officers, I was sitting at the front of the room and there was some negotiation (arm-twisting) going on at the back of the room, so I didn't hear who got "elected" to all the offices. The next newsletter didn't have the officers right so I was still in the dark.

Maybe others were in the same boat, and we occasionally get new members who don't know many of us. So it was time to update the Staff page. There are new email addresses, and phone numbers are now images rather than text strings to slow down spambots. But the most exciting change is the addition of mug shots! If you know what your Guild officers look like, you'll understand why none of them wanted me to publish their pictures. But there they are.

To see the Staff page, just click the link on the left side of the [main page](http://rockwellcollinsclubs.com/clubs-ia/woodworkers/index.php) (<http://rockwellcollinsclubs.com/clubs-ia/woodworkers/index.php>):



Other notes from the June meeting

The Hand Works event was well attended in the Amanas. Those that went spoke well of the offerings and attendance.

Ray will see about booking the pavilion at the Robins city park for the July 18th CWG picnic.

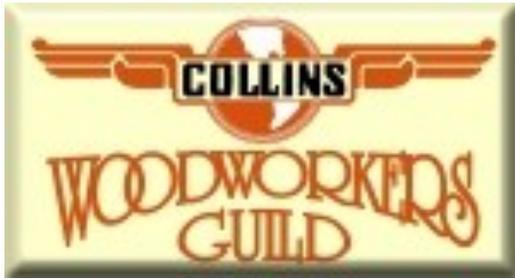
Paul Gibbs will try to contact Floyd Wesselink about the contact with a new sawmill that was recently started. Maybe we can book a tour there?

We are looking for more ideas and suggestions for planning for next year's meetings.



July meeting is a Picnic in the Park. Please bring a side dish to share, and your own drinks.





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	Wayne Hanson	wayne.hanson@rockwellcollins.com
	Ray Collins	ray-mary225@msn.com

Meeting Notice:

Sept: Tuesday the 19th at 5:00 PM

Location: 131 Ash Conf Rm

Subject: *Member Registration, Elections*

Project: *Hinges*

Knot News

COLLINS WOODWORKERS GUILD NEWSLETTER

This month:

Tool Rental

Membership has its privileges! A major asset lies at our fingertips in the CWG Library awaiting your checking out.

Other organizations in our area also do tool rentals. Matthew 25 to name one. Matthew 25 can be found at <http://www.hub25.org/>. Membership is based on household size and income with a \$180 annual fee cap, (see how inexpensive CWG is!). Other big-box organizations such as Home Depot and A-1 Rental are other resources.

	ROUTER	\$16.00	\$24.00	\$70.00
	ROUTER, BIT SET	\$7.50	\$10.00	\$30.00
	SANDER, BELT 3"	\$16.00	\$24.00	\$69.00
	SANDER, CORNER	\$13.00	\$16.00	\$48.00

It's a great way to determine if you might use a tool enough to justify purchasing one. Or those big tools we would only use once or twice in a lifetime.



This month's project is *Hinges*.

Do you use European? How about standard mortise, spring, box, continuous/piano, invisible, surface-mount, lift-off?

Please share what you use!

The purpose of a hinge is to pivot two solid objects in a limited angle of rotation. The key components in a hinge are the pin, knuckle and leafs.



Be

cautious borrowing from/to friends and neighbors. It's an honor-system and should the tool break down, regardless of condition it started with, it should be replaced, or you should not expect it to get replaced.



If a legal rental agreement is sought, LawDepot has a free document generator. Key items might include Description and value of equipment, terms of the agreement—i.e. date of rental through date of return, damage and waivers, repair and maintenance, usage/limitations of use.

September meeting needs YOU! We will have our annual membership sign-up, leadership elections, and a buffet of fun!



Please bring ideas for future projects and presentations!

Hooray! It's time for a **GIVEAWAY!**

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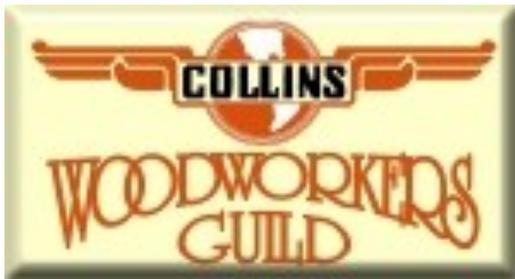
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Meeting Notice:

Sept: Tuesday the 17th at 5:00 PM

Location: 131 Ash Conf Rm

Subject: *Finishes*

Project: *Not Finished Yet*

Knot News

COLLINS WOODWORKERS GUILD NEWSLETTER

This month:**Finishes**

There have been a lot of articles lately from Wood, Woodsmith, Fine Woodworking that have been addressing the make-or-buy beauty of a project.

Over the years, finishes have increased significantly in choice and quality. No more is there only one or two choices. Many types of finishes from polyurethane to oil, from lacquer to hybrids. Finishing is the final step of the process that gives wood surfaces desirable characteristics, including enhanced appearance and increased resistance to moisture and other environmental agents.

Planning: There are good characteristics to cover prior to staining. Let's leave those for another article, but suffice it to say that the sanding and glue-up process has been done (or will be), and cracks and flaws have been redressed.

Purpose: we need to understand the function and use of the end project. Will it be used for serving food, or a decorative piece? Will it need a sturdy finish from daily usage?

Types: It usually consists of several coats of [wax](#), [shellac](#), [drying oil](#), [lacquer](#), [varnish](#), or [paint](#), and each coat is typically followed by sanding.

These break down to three major types of finish:

- Evaporative
- Reactive
- Coalescing

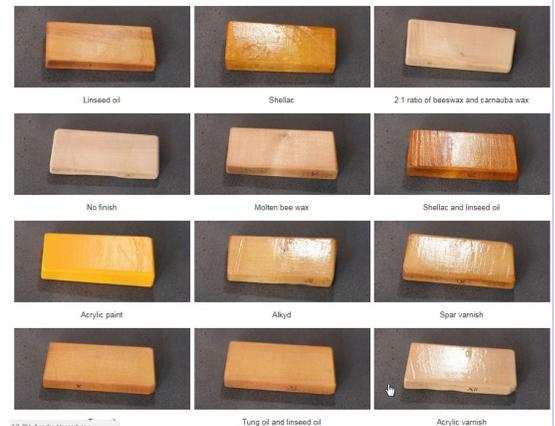
Wax is an evaporative finish because it is dissolved in turpentine or petroleum distillates to form a soft paste. After these distillates evaporate, a wax residue is left over.

Reactive finishes may use solvents such as white spirits and naphtha as a base. Varnishes, linseed oil and tung oil are reactive finishes, meaning they change chemically when they cure, unlike

evaporative finishes. This chemical change is typically a polymerization, and the resultant material is less readily dissolved in solvents.

Tung oil and linseed oil are reactive finishes that cure by reacting with oxygen, but do not form a film.

Water based finishes generally fall into the coalescing category.



Finally, the surface may be polished or buffed using steel wool, pumice, rotten stone or other materials, depending on the shine desired. Often, a final coat of wax is applied over the finish to add a degree of protection.

French polishing is a finishing method of applying many thin coats of shellac using a rubbing pad, yielding a very fine glossy finish.

Ammonia fuming is a traditional process for darkening and enriching the color of white oak. Ammonia fumes react with the natural tannins in the wood and cause it to change colours. The resulting product is known as "fumed oak".

Article courtesy of Wikipedia Wood finishing.

Last Month meeting

The November meeting was called to order by Joel Gillett. It was our annual membership meeting with lots of giveaways, food and discussions. The main discussion was Officer Elections—President, Vice President, and Treasurer/Secretary. As Joel Gillett gallantly stepped up for another



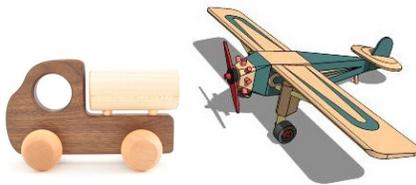
year and was the only candidate, he graciously accepted another year. Ron Kositzky volunteered for the Vice President, which was unanimously approved, and with Jerry Roland absent (he had left a message with Joel) he was absconded to continue in the Treasurer/Secretary role. All the other positions would remain with the same crime-stopping heroes.

The project was hinges. Richard Wolf brought out some antiques. We also saw the Euro-hinges.

Pizza and refreshments were had by all thanks to the Officers for coordinating all the food and gifts! I believe we were only about two prizes shy



October/November is our Toys For Tots build. Please watch for updates from our leadership!



Membership



of going around twice for everyone. Many beautiful species of wood (we'd love to see these turn back up in projects to show), and fantastic prizes from ACME Tools—thanks Wayne & team).

Thank you to all the members who help make these meetings meaningful!



Q&A: There was a question posed: I have a gallon of glue that was left out in the cold and it froze. Is there a way to “revitalize” it?

A: from both Perry and Paul, there is no way to reconstitute frozen glue. It is best to pitch it (much like paint, pour it out on cardboard to harden and through in the trash). You should always be using fresh glue on projects. There is a shelf-life for glue, and beyond it's expiration, it does not bond, and your projects will split at the weak bonds.

Upcoming projects:

October: Not Finished Yet

November: Spoons (blanks by Perry)

December: 2x4—something made from a 2x4, just a 2x4

January: pallet wood project

February: Food Serving ware

March:

April:

May:

June:

July:

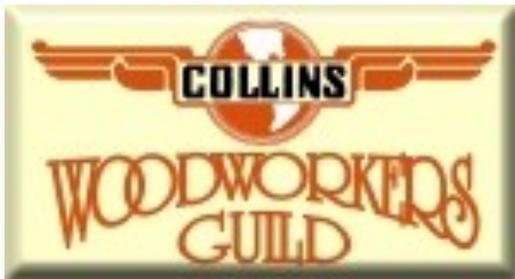
Plywood Core project

Patio Project

Noise-maker, musical or otherwise

August:

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KNOT NEWS
Is published monthly by the Collins
Woodworkers Guild

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Vice-President:	Ron Kositzky	cwg-vp@rockwellcollinsclubs.com
Secretary / Treasurer:	Jerry Roland	RC.CWG.treasurer@gmail.com
	Paul Heyd	
Membership:	Jerry Roland	RC.CWG.Membership@gmail.com
Guild Photographer:	John Cox	jlc73z@imonmail.com
Library:	Ron Kositzky	RC.CWG.Librarian@gmail.com
Website:	Jerry Roland	RC.CWG.Webmaster@gmail.com
Newsletter:	Paul Gibbs	RC.CWG.Newsletter@gmail.com
Planning Committee (in addition to the above):		
	Wayne Hanson	wayne.hanson@rockwellcollins.com
	Perry Coffman	woodyptx@yahoo.com
	Paul Heyd	paul.heyd@rockwellcollins.com
Toys-For-Tots Committee:	Joel Gillett	Joel.Gillett@rockwellcollins.com
	Wayne Hanson	wayne.hanson@rockwellcollins.com
	Ray Collins	ray-mary225@msn.com