



Encouraging all woodworkers in self-expression, craftsmanship and knowledge

Colorado Woodworkers Guild

May 2018



President's Message

Another month has gone by and we have another meeting scheduled for May 15th. This should be a good one; we are asking everyone who wants to share their favorite jig to bring it in for discussion.

So, to start with I decided to look up the meaning of the word (jig). First of all, I could not find a printed version of Webster Dictionary in my house, and no, I did not ask my wife where it might be. I hit the easy button and Googled it and besides a dance here is what I found: a device that holds a piece of work and guides the tools operating on it.

I had no idea when I first started wood working that just about every new project would benefit from the use of a jig. Invariably that meant I had to buy one, make one or borrow one. So, I thought I would discuss a few of my favorite jigs in my small humble shop.

The first one I would like to discuss is the Incra Incremental Positioning Jig. This is on my router table about 90% of the time. It can be used to make box joints, dovetails, special Inca joints and positioning of various fences with different router bits. I have also moved it to my jobsite table saw on occasion for precession cuts. I have not tried it on my drill press, but I know you could use it there as well. They sell an optional fence for this, but I use my existing fence on my router table and I have made others for different projects. I bought this from Rockers and they stock a few of these.

<http://www.rockler.com/incra-universal-precision-positioning-jig>

The next jig I would like to discuss is the Large Box Spline Jig from Rockler. I originally bought this to make a few telescope cases, that are still on my to-do project list. It states on the box, "Quickly, easily and accurately cuts slots for splines to decorate and reinforce mitered corner joints on large boxes and cases." I have used this for dovetail splines on Urn's and other boxes. I have temporally mounted this to my table saw sled and cut thin splines in small boxes. This is my go to spline jig.

<http://www.rockler.com/rockler-large-box-spline-jig>

The first jigs I bought were the Incra Build it System Starter Kit. I wanted a table saw sled that was accurate and easy to make. "Quickly and easily create a wide variety of common and special purpose jigs and fixtures that you typically find hanging on the walls and rafters in just about any woodshop. The INCRA Build-It Modular Jig & Fixture Platform System is a highly versatile new method for creating those jigs and fixtures." "The Build-It System begins with INCRA's Miter Slider adjustable aluminum runners. These tried and true jig and fixture runners have become a workshop staple for the production of sliding and fixed base jigs, but the true "punch" in the system occurs when these are combined with the NEW INCRA Build-It Panels and T-Slot Panel Connectors. The Build-It Panels are pre-cut and pre-drilled to instantly accept all of the components of the system. Add a Miter Slider in seconds and it's automatically square to your saw blade with no tedious measuring or drilling required, then mount a fence in moments using the counter-bored mounting holes. The "glue" that holds everything together is INCRA's innovative NEW T-Slot Panel Connector. These specially designed aluminum components serve to simultaneously interconnect the panels and provide a rock-solid T-Slot for adding and holding jig accessories, fences, stops, Build-It Hold Down Clamps and Build-It L-Brackets. With this new system, set up and connection is easily accomplished with a screwdriver and the included

fasteners. Kit includes all of the Build-It System Components you'll need to produce all of the beneficial jigs shown here and more. Just connect the parts! Starter Kit includes one each of the small & large MDF Base Panels, 18" Miter Slider, Hold Down Clamp, L-Bracket pair, 1/4"-20 Knob Kit, 18" T-track, 18" T-track Plus and two 18" T-slot Panel Connectors. Plus 5 free jig plans!"

- Make coping sled, Disc sander jig, shooter board squaring jig and tenoning jig with New INCRA Build
- New method for quickly and easily creating an extremely wide variety of common and special purpose jigs
- Work with all INCRA Track & INCRA T-Track components and accessories

It kind of sounds like an advertisement, and it is in a way. If you are just starting out in wood working like I was three years ago, this was and is, invaluable to me. I bought this at Woodcraft and I think they still stock one or two of these locally.

<https://www.woodcraft.com/products/incra-build-it-system-starter-kit>

Sorry, I got a little windy, but I like jigs and they are very handy. I am not bringing any of these jigs to the meeting; I plan on bringing one that I made. So, if you want to see the one I bring you will have to show up for this month's meeting, I think it will be a good one.

Dale Bowlin President

CWG Library Update

Background: Our library has well over 200 books and over 100 DVDs that are available to members to borrow without charge. These are a substantial Guild asset. Although some were purchased by CWG, many have been donated by members and friends. Donations are always welcome and appreciated.

What's New & Why: We've recently moved to a new on-line library tool because the old system was becoming obsolete and new tools have become available to maintain the library and make it easier for members to browse the holdings. Our library is linked to our CWG home page under Members' Corner

(<https://www.librarycat.org/lib/COWoodworkersGuild>).

Browsing Notes: There are 2 basic methods for browsing: (1) click on cover art that is scrolling on the screen to go to that item or (2) Use search bar to look for items by topics, titles, etc. You can also use "Advanced search" to narrow down your search (e.g. only DVDs). Using either method you can click on any result listing to get more information, including a link to the item's Amazon listing (if available) to see more information, e.g. reviews, "Look Inside" and also see a list of related titles in the CWG library. Note: you can also use the browser on any smart phone

Check Out and Return: Once you find a book or DVD you want, note the bar code and find it on the shelf or ask the librarian. DVDs and Books are now being shelved ***in Bar Code order*** to allow easy access for checkout and reshelving. Books have Bar Codes from 1 to 500 and DVDs have Bar Codes from 1001 to 1500. We recognize that this is not optimal for browsing on the shelves, but we plan to have an on-line catalog available at each meeting, for now, please use Checkout/Return forms in the white Library binder.

Possible Future Features: We will explore adding features using the LibraryCat website like: Check out & return an item; Place a "hold" request; Ask the Librarian a question about the item.

Requests for members: (1) If you have borrowed any CWG books or DVDs, please bring them to the next meeting so we can incorporate them into the new catalog. There will be a receptacle for returned items. (2) Please try out the catalog and check out the new features. This is your library and feedback is always welcome – email the librarian at library@colordowoodworkersguild.org.

Membership

Membership Problems??? Send an email to programs@coloradowoodworkersguild.org

Many of you prefer to pay by check either at a meeting or through the mail. To support this a new web page has been added. If you go to:

<http://ColoradoWoodworkersGuild.org>

and look under **About** you will see **Pay for Membership by Check**. Click on this and you'll be taken to a page where you can fill in your info and print the page. If you log in first, most of the info will be filled in for you. When you click **Print**, the info will be stored on line (so I don't have to enter it!). Mail the page to CWG with a check or take it to a meeting with a check.

Colorado Woodworkers Guild

P.O. Box 100996

Denver, CO 80250

along with a check for \$30.00.

Here is the membership status as of this writing:

88 Members paid through the end of 2017 (inactive as of April 1st)

129 Members paid through the end of 2018

129 Active memberships total

Total 129 **active** memberships. What is an active membership? A membership is valid through the end of the calendar year. If you have not renewed for 2018 your membership is still considered active until April 1st, 2018.

I have begun to disable memberships who have not renewed for 2018. If your membership becomes disabled and you have renewed for 2018 please let me know.

Now is a great time to renew your membership!

The 2018 member cards look like this (member name/expiration in Red text on a White background). If your member card does not look like this, it is expired.



If you believe that you have renewed for 2018 and do not have a current membership card, please let me know. Send an email to programs@coloradowoodworkersguild.org and I'll address the problem.

How can you renew? For me the best way you can renew is on-line.

When you fill in one of our on-line forms

- I do not have to decipher your handwriting (no offense).
- The data is machine readable, meaning I do not have to enter it manually!

You can renew on-line, print out the form and mail it with a check, or bring the form/check to a meeting.

To renew on-line and mail the form in with a check go to

<http://coloradowoodworkersguild.org/index.php/pay-by-check-member-application>

If you log in first your name address etc. will automatically be filled in! If you don't know how to log in OR are unable to log in drop me an email at programs@coloradowoodworkersguild.org and I'll help you out!

Cary Goltermann - Assistant to the Membership Chair

Show and Tell

The April meeting corresponded with the tax filing deadline this year, but that didn't keep us from having a good turnout in the show and tell.

First off was **Roger Abraham** with a **shield** he made for his grandson. His grandson wanted a shield to go with the wooden sword Roger had previously made. The difficulty was in gluing the layers into a nice even curve, which Roger did, thanks to a press made of 2x4s and ratchet straps. Finished with a nice two-tone acrylic paint job, Roger's grandson is ready for a challenge with a wee dragon.



Next was **Kevin Loyd** also known as me. Following the prior month's demonstration series in which Kevin was doing hand-cut dovetails he brought in an example. The **mahogany shelf** was designed to fit a specific desk and hold to large monitors with space below for speakers, and yes, it is joined at the corners with hand-cut dovetails.

No Photo Available

Rich MacCrae brought in another of his beautiful **lidded boxes**. This one made of cherry **with a compass rose inlay** in the top. Rich also used hand-cut dovetails for the joinery of the box and a bridle joint for the lid



Jim Barry brought in the alignment shelf for his collapsible Molly Brown table to show off his medallion. The Guild has a corporate sponsor that will custom make the quarter-sized medallions for us at a respectable price. The Jim had been given the option of getting a maker's mark branding iron but decided on going a different route with an elegant medallion that just has a "B" to mark his work.

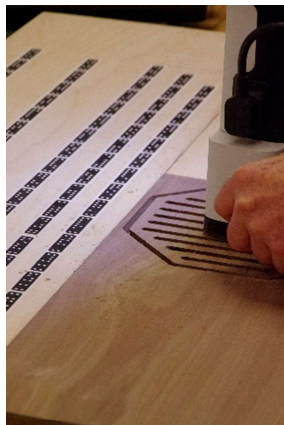
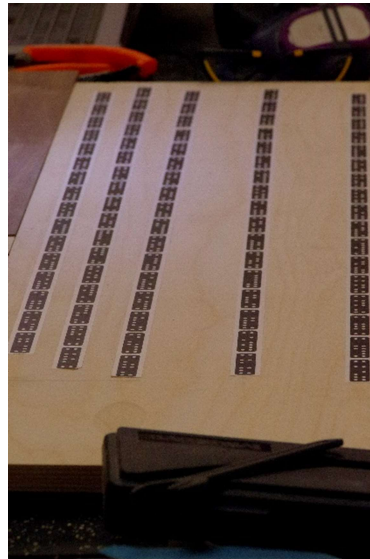


The winner of the night was **Arnie Silverman** with his **barley twist plant stand**. The design came from the American Period Furniture Makers annual magazine. The barley twist is very challenging to execute, and Arnie had some questions, so he contacted the author who is also a medical doctor. Arnie found some valuable guidance from Stuart Mortimer for the barley twist and then finished the piece with some dye, linseed oil, and wipe on poly.

Thank you to everyone that brought in their work to be seen by the rest of the group. Remember that each month the show and tell is one of the staples of the meeting so please continue to bring your pieces and tell the rest of us what you've been doing.



Presentation Photos



Presentation

The World's First Handheld CNC Machine

Wilbur “*I never met a power tool I couldn't bend to my will*” Goltermann demonstrated his latest acquisition, the Shaper Origin, that bills itself as the world's first handheld CNC machine. Wilbur calls it a 1-horsepower router in a 3-horsepower package, which is justified by the bulk of the machine because it's packed with electronics and servo motors.

The machine takes its cues from an array of special tapes the user applies to the plane of the work surface. The machine sees the patterns of the tape (said patterns resembling dominos) and orients itself to the tape patterns much as a GPS system would rely on landmarks and coordinates to know where it is. Since the machine has a design in its memory, acquired either from a computer image created by the user or downloaded from Shaper Origin's website, and is aware of its location relative to those tapes, it knows where to cut. Controls on its screen permit the user to define the depth of cut, tell the user which direction to cut in, and should the user stray from the desired cut location, instantly lifts the cutter from the work surface. Cuts can be specified to 0.001 inch and then cleaned up using the machine in a final pass to achieve extremely accurate dimensions.

Although the tapes can be reused, they tend to abrade in use so in practical terms, they can't be reused many times. At \$18 per roll, the tapes are really the only consumable associated with using the Shaper Origin except, of course, for the router bits. Shaper Origin recommends 1/4-inch shank, up-cut router bits. You will find double-sided tape useful for holding the work piece and the piece with the pattern tapes in a constant relationship; both pieces must be in the same plane and must not shift while the device is routing the pattern(s).

Shaper Origin's website, in addition to having downloadable designs, includes tutorials and plans for jigs to aid in using the tool for work that would otherwise pose considerable challenges, e.g., engraving your initials in the end of a hammer handle or creating round mortise and tenon joints. Wilbur brought in the vertical work station jig he had made from plans on the website.

As with any router, which this is fundamentally, it can make perfect dovetails and box joints. And, the tool itself can scan “clip art” directly into its memory. Wilbur noted that he had scanned the map of Texas and “carved” it using the Shaper Origin.

For more details, demos, and tutorials, visit <http://www.shapertools.com>. The German company Festool has bought the company, so more information is now available on its website.

By Bob Kleinfeldt

By Bob Kleinfeldt

About Wood

In this month, May 2018, we consider a member of the **Red Elm (*Ulmus rubra*)**, also known as **elm, slippery elm, gray elm, soft elm, and moose elm**. **Red Elm** is a tree native from Maine and the lower St. Lawrence Valley in Canada, westward across southern Ontario to eastern South Dakota and southward to western Florida and eastern Texas and is from the Ulmaceae, the elm family.

Recall that in previous columns, we have defined the Modulus of Rupture (MOR), the Modulus of Elasticity (MOE), Crush Strength, and Janka Hardness. We will continue to use those terms. Most of the other terms are generally well understood and will not be defined further. If you have questions about other terms or questions about a specific wood, contact wood@coloradowoodworkersguild.org.

Red Elm

Here is a summary of the characteristics of **Red Elm**:

Distribution: portions of Canada, southward to eastern and midwestern United States

Tree size: 50-80 ft (15-24 m) tall; 2-3 ft (0.6-1.0 m) trunk diameter

Average Dried Weight: 38 lbs/ft³ (600 kg/m³)

Specific Gravity: (Basic, 12% MC): .48, .60

Modulus of Rupture (MOR): 13,000 lb_f/in² (89.7 MPa)

Modulus of Elasticity (MOE): 1,490,000 lb_f/in² (10.28 GPa)

Crush Strength: 6,360 lb_f/in² (43.9 MPa)

Janka Hardness: 860 lb_f (3,830 N)

Shrinkage: Radial, 4.9%; Tangential, 8.9%; Volumetric, 13.8%; T/R Ratio, 1.8

Appearance: heartwood light to medium reddish brown; paler sapwood is usually well defined

Grain/Texture: interlocked; coarse, uneven texture

Stability: poor dimensional stability

Relative strength: good but not exceptional; average resistance to shock and abrasion

Decay Resistance: non-durable, and susceptible to insect attack; susceptible to Dutch elm disease

Workability: challenging because of interlocked grain; planing can lead to tear out and fuzzy surfaces; glues, stains, and finishes well; holds nails and screws well; responds very well to steam bending

Odor: some report a licorice scent

Toxicity: reported as an irritant and sensitizer; rarely as causing nasopharyngeal carcinoma (NPC)

Potency: moderate

Toxicity Source: wood dust and contact with wood

Reaction: dermatitis, eye irritation

Sustainability: not threatened; available

Uses: furniture, veneer, boxes, cooperage, pallets, millwork, moldings, plywood, baskets, turned objects, wheel hubs, railroad ties, fence posts, wood pulp and paper making

Typical Cost: moderately priced

Comments: Dutch elm disease has wiped out millions of Elm trees worldwide; dries more quickly than most woods; kiln temperatures must be kept low;

Sources: Woodworkers Source; The Wood Database; American Hardwoods Information Center;

Flynn, James H. and Charles D. Holder, Editors. *A Guide to Useful Woods of the World, Second Edition*.

Forest Products Society, Madison, Wisconsin, 2001.



If you have questions about a specific wood, don't hesitate to send a note to wood@coloradowoodworkersguild.org.

Sponsor's Corner

Sponsor Profile



A Cut Above Distribution Company

A Cut Above Distribution Company shipped its first order in 1991 and 25 years later the company continues to offer a complete and competitively priced line of abrasives, diamond and safety products across the country. In the beginning Danny Straus and Gary Lerner decided to mould Pearl Abrasives into a “local distributor” of product that everyone wished they had. They wanted to create a source of knowledge and friendly sales and technical help that included guidance and insight on the best application of products as well as an introduction to new products. They continue to strive to provide the best quality products at some of the best prices in the country. A Cut Above is a mail order and on-line business with both a printed and on-line catalog serving more than 10,000 customers worldwide. Despite the lack of face-to-face contact with customers, they routinely hear that their customers receive better service from them than from local suppliers.

Danny and Gary first met during summer camp experiences as boys. Danny went off to University of California-Berkley to study economics while Gary studied at the University of Arizona. Their friendship led them to A Cut Above located in Van Nuys, California. They now can claim more than 50 years of combined experience in the use of abrasives between them. Danny, Gary and their support staff are available by telephone and email to provide guidance to the perfect product. Their on-line catalog shows a small sampling of items from their fully stocked warehouse.

The company now carries “A Cut Above” labeled products which they believe offer the best mix of quality and value anywhere in the country. They are constantly searching for the world’s best manufacturers to include in their “house brands”. As a result, their catalog is continual changing to include new products and manufacturers.

A Cut Above has been a sponsor for the Guild for a number of years and through the efforts of liaison, Stan Wolpert is well known to members.

A Cut Above website: www.acutabove.com

Store Telephone: (800) 444-29, Store Hours Monday-Friday 8:30 AM to 5:00 PM PST

Address: 16512 Arminta Street
Van Nuys, CA 91406

Guild Liaison for A Cut Above Distributing Company is Stan Wolpert

liaison-acutabove@coloradowoodworkersguild.org

Guild Sponsor Updates

The following changes in the Guild Sponsors should be noted:

- **Reclaimed Boxcar Flooring** is no longer listed on the Sponsor List. Tom Kirk has curtailed his operation and no longer maintains his yard.
- **Jim Ruby** has agreed to serve as the liaison for **Collector's Specialty Woods** replacing Jim Kitsmiller.

CWG Sponsors

The Colorado Woodworkers Guild is fortunate to have many companies as Sponsors. Our Sponsors help the Guild with programs, materials, supplies, facilities, display space, financial, and other means. In many cases, Guild members are able to obtain discounts from our Sponsors (except for power tools and sale items). Please note: the Guild discounts only apply to in-person purchases in the store (except where noted) and are not available at any sponsor's online store. You must show a current membership card to obtain the discount

A Cut Above 16512 Arminata Street, Van Nuys, CA 91406

Phone: 800-444-2999

Website: www.acutabove.com

Austin Hardwoods of Denver, Inc. 975 W. Mississippi, Denver, CO 80223

Phone: 303-733-1292

Website: www.austinhardwoods.com

Bear Woods Company 6099 228 Street, Langley, BC V2Y 2L3 Canada

Phone: 800 565-5066 Fax: 888 599-1118

Website: www.bearwood.com

B & B Rare Woods 871 Brickyard Circle, Unit C4, Golden, CO 80403

Phone: 303-986-2585

Website: www.wood-veneers.com

Charlie's 2nd Hand Store, Inc. 2227 Larimer Street, Denver, CO 80205

Phone: 303-295-1781

Website: www.usedtoolsplus.com

Collector's Specialty Woods 4355 Monaco Street, Unit A, Denver, CO 80216 (this is their Denver showroom and warehouse) and 8055 County Road 570, Gardner, CO 81040 (this is their southern Colorado wood yard, kiln drying facility, woodshop, and another show-room)

Phone: 800-746-2413

Denver Woodworking Company 2062 S. Bannock Street, Denver, CO 80223

Phone: 303-733-3130

Website: www.denverwoodworking.com

Mile High Tree Care, Inc. 6010 W. 56th Avenue, Arvada, CO 80002

Phone: 303-292-9393

Website: www.milehightreecare.com

Frank Paxton Lumber Company 4837 Jackson Street, Denver, CO 80216

Phone: 303-399-6047

Website: www.paxtonwood.com/denver.aspx

Rockler Woodworking and Hardware 2553 S. Colorado Blvd, Denver, CO 80222

Phone: 303-782-0588

Website: www.rockler.com/retail/denver-colorado-hardware-store.cfm

Sears Trostel 1500 Riverside Ave, Ft Collins, CO 80527

Phone: 970-482-1928

Website: www.sears-trostel.com

Signature Medallions 4218 Ponce De Leon Drive, La Mesa, CA 91941

Phone: 619-303-2876

Website: www.signaturemedallions.com

TC Woods 5406 County Road 23, Ft. Lupton, CO 80621

Phone: 3-666-8989

Website: www.tcwoods.com

Tool Zone, Inc. 8651 Grant Street, Unit 1A Thornton, CO 80229

Phone: 303-252-8500

Woodcraft of Denver 6770 S. Peoria Street, Centennial, CO 80112 Phone: 303-290-0007

Website: <http://www.woodcraft.com/stores/store.aspx?id=305>

03/16/2018

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