

Encouraging all woodworkers in self-expression, craftsmanship and knowledge

# Colorado Woodworkers Guild August 2019



## President's Message

Hello Everyone, here is a copy of an article that is in the worldwide issue of the Vectric Newsletter this month on our own Doug Pinney. The doodling's were sketched out by Doug's Granddaughter in about 5 minutes and he incorporated them into his work in the bottom of the box. Obviously, talent runs in the family. The lay out for this Guild issue is not the same.

## **Doug Pinney**

"Being able to turn a design that you have envisioned into reality takes quite a bit of skill and patience, especially when you are taking an "everyday" item and wish to put your own stamp on it.



Well this is exactly what Doug Pinney had done when making his Pelican Box. You may have come across his project on the forum as it has proven quite popular with the Vectric community. Before we get a look at this fantastic project and why he made it, we wanted to find out about Doug's background and how he got into CNC machining...

I retired from my job about 10 years ago now, and gosh the time has flown. I had worked in the construction industry where I was the Design/Build General Contractor,

working on large scale commercial buildings. Once I retired my wife suggested that I finish my wood shop... it was one of those personal projects that kept getting pushed back due to work. After about 4 years I started looking for a new challenge in woodworking. This is where CNC machining came into my life.

I had seen some of the things you could do with a CNC machine, but it wasn't enough to influence me to purchase one. I spent about 6 months researching some more. When I was at the point that I was ready to purchase one, I set myself 3 questions to ask each manufacturer. "Is your machine American made?", "Do you have aftermarket support?" and "Do you have aftermarket training?". These questions led me to purchase a

Legacy Arty 58 CNC, then a 3x5 Maverick. Legacy was the only CNC manufacturer that answered my 3 q I



now I have a Legacy 4x8 Maverick CNC in my 4000 square foot work shop. I still like to incorporate my other traditional tools like saws, sanders and planners. The CNC is fitted with a good dust collection unit, it helps a lot when its time to clean up.

Legacy were really helpful when purchasing and setting up my CNC machine. They recommended Vectric software to me from the start. Currently I am using Aspire V9.5 . Two of the best things about Vectric for me are one, the ease of use of the entire product, especially

the tools they have for 3D modelling and sculpting. Two, I really enjoy going to the Vectric User Group Meetings, they are usually around October.

It's very clear from Doug's journey to the present day, he has always made informed choices to make sure he has the right equipment to turn his designs into physical items. Located in his massive workshop, with his copy of Aspire we had to ask him about the Pelican Box project we couldn't help but see on the Vectric forum...

My daughter really likes Pelicans, and her birthday was coming up so I decided I would make her something special which incorporated her favorite animal.

The design portion took months to get right. I kept tweaking the design, it just wouldn't "sit" right. I do not like to make square/straight line projects. I love the look of soft curves and shape in my work, I think it adds another layer of personality and character to the finished piece. This was the part of the project I enjoyed the most. Using the modelling and drawing tools gave me so much freedom to fine tune my design to get the correct shape.

This project was made out of American Black Walnut which I got from the hardwood supplier. It's really handy that I have quite a few different types of tool bits at hand in my workshop because this project used 5 different tools – 0.25 end mill, 0.25 ball nose, 0.125 ball nose, 0.0625 ball nose and a 0.25 60-degree v-bit.



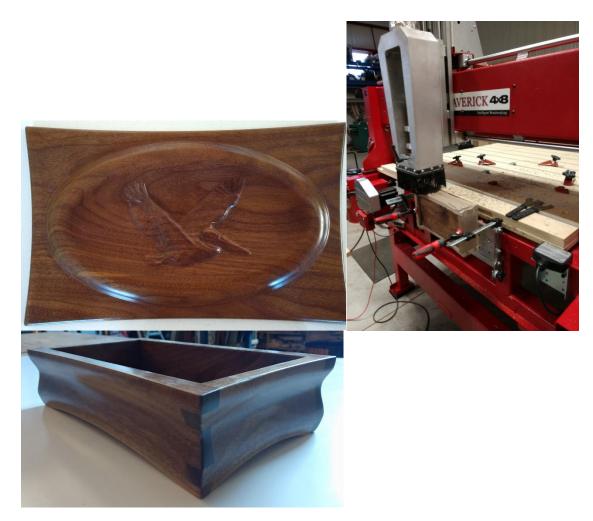
This project was so enjoyable to make from start to finish. I wouldn't change anything so I don't have any words of warning to share. But I do have some advice for you. Just let your mind wander when designing. Do not rush your design, let it come together. The best thing I can say is don't be afraid to get up and walk away from the project, then come back to it. I can almost guarantee you that you will see the project in a different light. Oh, and also, don't be afraid to use some clipart from Designandmake.com, its so easy questions with a yes.

to use. Purchase something you like, and simply drag and drop it into your design. After a few little tweaks your design has completely transformed.

I think we can all agree that Doug has a real care and eye for fine design and implements this in every stage of his process from the initial idea right through to finishing. We would like to take this opportunity to thank Doug for giving up his time to share his story with us. We can't wait to see what future projects he shares with us...

I am working on another box similar to the Pelican Box. It is made out of Black Walnut Burl and Holly; it will be called the liberty box. You will have to wait until the October User Group Meeting to see it. As for after that I have nothing planned. I wait for something to pop in my head, I don't like planning or forcing something because the design process ends up being forced too."

## **Project Gallery**



Dale Bowlin President

## Next meeting is Tuesday, August 20, 2019 at 6:30 pm in the basement of Rocklers

Kida Takayuki (Tak for short) will do a presentation on Japanese woodworking. Tak teaches Japanese wood working part-time at Red Rock Community College and is a member of <u>Kazuro-Kai USA</u>. For more information about Tak take a look at his web site here: <a href="https://takanadesign.weebly.com/about.html">https://takanadesign.weebly.com/about.html</a>

### **Demonstration**

### Greg Veal - Choosing the Best Finish

Is there anything this man doesn't know about wood finishes? I'd be surprised if there is.

Greg works for Würth Louis and Company (<u>wurthlac.com</u>), a German company aka M.L. Campbell Products in this country, where he's a Senior Technician. That seems pretty innocuous until you witness him discoursing on the various factors influencing the choice of a wood finish, its application, it's re-application, maintenance, durability, environmental considerations, and so on. He's a veritable encyclopedia on everything that relates to the subject. And Greg seems to enjoy nothing more than educating others on the basics through the esoterica of wood finishes.



Greg touched on a broad range of wood finishing subjects, beginning with a short discussion of nitrocellulose, which is useful for finishing musical instruments fashioned from wood because it's thin and thus doesn't affect the instrument's sound quality. Although it lacks durability, it's easy to refinish after a few years.

Another consideration Greg noted is that pre-catalyzed lacquers will turn amber over time, changing the appearance of the underlying wood with age. They also have a short window for application, so should be used quickly. But, conversion varnishes, despite offering only a 24-hour pot life, are non-yellowing and exhibit supreme durability. They're also ideal for people with allergies, although Greg stresses that everyone should wear a carbon filter mask no matter what finish is being applied and whether or not they have allergies.

On the subject of polyurethane, Greg had a number of good things to say regarding its durability and ease of application, noting that polyurethane is good for both interior and exterior finishing and cures in only an hour and 15 minutes.

The foregoing led to a discourse on HVLP sprayers, particularly the legal

limits on maximum pressure permissible at the nozzle tip (10 psi) because higher pressures can lead to damaging the Earth's ozone layer. An easy segue from this is the salient fact that UV rays eventually damage everything, which in turn brought up a mention of spar varnish which, in external applications, begins degrading in only two to three years. The only effective treatment once degradation becomes apparent is stripping all of the old varnish and refinishing. Spar varnish has a three- to four-hour pot life.

Continuing with the variety of topics demonstrating his command of the subject, Greg went on to discuss crackle finishes and how the ML Campbell facility displays four crackle-finished doors with the specific formula for the finish shown on each attached to the back of the door. A useful fact is that ML Campbell can provide just about all of their finishes in ready-to-use spray cans.

Following his planned presentation, Greg conducted a Q&A session. Among the topics were child-proof paint, Magnamax H2O for indoor game courts, volatile organic compounds (VOCs), cleaning and refinishing kitchen cabinets,





another mention of the importance of wearing a carbon filter when spraying any kind of finish (and store your face mask in a gallon Ziploc between uses), the importance of applying finish to all six sides of everything, and not sanding wood with anything finer than 220 grit because finer grits will have a polishing effect (exception: with MDF, use 220 grit, then progress to 320, 400, and finally 600).

Wrapping up, in response to a leading question, Greg expressed a willingness to consider discounts for Guild members.

By Bob Kleinfeldt

Toys....Toys

#### Hello Fellow Colorado Woodworkers!

My name is Ed Lawlor and I have the absolute pleasure and opportunity to carry on the Guild's Toy Drive for this Holiday Season. This is a great service the Guild has been offering the under privileged children in our communities and I encourage all members to consider helping in this effort.

Now I am new to this position and can only hope to carry on the fantastic work of past CWWG members. I know many of these members have unselfishly worked to make this drive an annual success by making, facilitating, gathering and distributing these toys to multiple organizations. I am excited they will continue to offer their guidance and help and certainly any new members who wish to participate this year are welcome to do so. I have a few ideas of my own for this year, but I am looking for feedback from all willing members to make it the best experience possible for the children. Charlie Kuechenmeister and Jeff Roth in particular have been extremely helpful in tossing me the baton and getting me off on the right foot.

I want to invite all members to participate in the wonderful event with whatever skills you wish to add. We can use help in all areas of this project to include wood donations, template sharing (I have quite a few given to me from Charlie), sanding, finishing etc. My wife has some groups that would love to help with finishing or painting to assist the program.

From my understanding of the timing we can start the process by discussing this at the next meeting in August and I will be asking for volunteers and ideas at that time. All the toys need to be ready around Thanksgiving and distribution shortly thereafter. Thank you very much for your participation in this wonderful event.

**Ed Lawlor Community Services Chairman** 

## **About Wood**





In this month, August 2019, we consider **Bocote (Cordia spp.)**. **Bocote** is actually a genus of several species in the family Boraginaceae, the borage family (even includes a common garden herb). These trees are native to tropical dry zones of Mexico, Central and South America. Species such as Alliodora and Gerascanthus have been naturalized in other places such as East Africa and some Pacific Islands. Other names for the wood include amapa, baria, Ecuador laurel, Laurel de costa, Salmwood, ziricote, canaletta, Lauro pardo, lauro Negro, canalete, trompillo, and friejo. For the purpose of this article, **Alliodora** and **Gerascanthus** are considered.

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.

#### **Bocote**

Here is a summary of the characteristics of **Bocote**:

**Distribution**: From Mexico, through Central America to Brazil and Argentina (some in Florida, Caribbean islands, East Africa, and

Pacific islands).

Tree size: small to large; 65-100 ft (20-30 m) tall; 3-5 ft

(1-1.5 m) trunk diameter

Average Dried Weight: 53 lbs/ft3 (855 kg/m3) Specific Gravity: (Basic, 12% MC): .68, .85

**Modulus of Rupture** (MOR): 16,590 lb<sub>f</sub>/in<sup>2</sup> (114.4 MPa) **Modulus of Elasticity** (MOE):1,767,000 lb<sub>f</sub>/in<sup>2</sup> (12.19

GPa)

Crush Strength: 8,610 lb<sub>f</sub>/in<sup>2</sup> (59.4 MPa) Janka Hardness: 2,010 lb<sub>f</sub> (8,950 N)

**Shrinkage**: Radial, 4.0%; Tangential, 7.4%; Volumetric,

11.6%; T/R Ratio, 1.9

**Appearance**: heartwood is reddish-brown to dark brown with dark brown or blackish streaks; sapwood is grayish or yellowish;



darkens with age; figure can be striking, especially with flat sawn areas

**Grain/Texture**: grain is usually figured and tends to be interlocked; medium uniform texture with a naturally oily/waxy

feel with good natural luster

**Stability**: difficult to dry; once dry it holds its shape well **Relative strength**: very strong and with high density

**Decay Resistance**: moderate to very durable; is subject to insect attacks

**Workability**: generally easily worked, though some species contain silica that will dull cutters; contains considerable of

natural oil, gluing is usually problem-free; turns and finishes well

**Odor**: moderate scent that resembles dill pickles

**Toxicity**: can see cross reactions if worker has initial sensitivities from Pau Ferro, Macassar Ebony, Cocobolo, and

most Rosewoods **Potency**: low to moderate

Toxicity Source: wood oils and wood dust

Reaction: severe reactions uncommon; mild eye and skin irritations possible

Sustainability: not commonly available; not listed as threatened

**Uses**: fine furniture, cabinetry, flooring, veneer, boatbuilding, musical instruments, gunstocks, turned objects,

and house construction

Typical Cost: expensive

**Comments**: an eye-catching wood; used for its aesthetic attributes, rather than its mechanical ones; not weak, but

its strength-to-weight ratio is below average. (Roughly as stiff and strong as Hard Maple, even though

Bocote is considerably heavier.)

**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.

Lindy Baer

## Show & Tell June 2019

Our July meeting was well attended, but summer often finds us outside and traveling with limited submissions for the Show & Tell. For the benefit of the new members and visitors the Show & Tell is open to submissions from everyone so don't hesitate to bring in your work. By sharing what you've been working on it shows others what you are working on and it can inspire others. It also helps other see the great resource of knowledge the guild has within its membership.



First off was our illustrious President and woodworker in chief Dale Bowlin who brought in a couple of submissions. Dale obtained a froe for riving wood and brought in the froe bat used to drive the froe through a log. His froe bat was made on his new lathe and like any new toy... tool the more use the better. That said the froe bat ended up being smaller than he intended, but the journey and the mound of shavings were worth it. One realization was that the use of a froe turns out to be much more difficult than he remembered from his childhood.

Dale's other item was the oak portable bench top, which he made to for doing Chopstick Master demonstrations. The top is wholly, which assists in holding things, but seems



appropriate given it was made of retired church pews.

Next up and winner of the night was Scott Roth with his marquetry of a boot. The piece was made for a Western-themed show in Evergreen earlier in the year. Scott used burl to mimic the appearance of old boot leather. He also did a fair bit of experimentation to get the stitching just right, which entailed a pyro pen and a careful application of melted crayon wax.

Thank you to Dale and Scott for bring in your work to share with the rest of the group. To everyone else, 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.







Kevin Loyd Shows & Exhibits

## Library News

Be sure to check the link on our website for our library catalog. The CWG library accepts donations of books and DVDs only. The library has several magazine archives available in DVD form but does not maintain any hard copy issues. Any member wishing to donate magazines is welcome to bring them and place them on a table for members to take home with them.

The donor is responsible for setting up and clearing up any unclaimed items afterwards.

https://www.librarycat.org/lib/COWoodworkersGuild# Jim Barry, Librarian

## Frank Paxton Lumber Wood of the Month

The featured Wood of the Month for August 2019 from Frank Paxton Lumber is 4Q S3S Stripele Ribbon Stripped,14" and 10 foot and longer lengths.

Also, they have a flash sale on 4Q S3S Figured Maple.

As always, call 303-399-6047 for pricing.

Woodworking tools sale
Private sale for Guild Members
Saturday September 7<sup>th</sup>
9am to 2pm
10713 Kimball St.
Parker, Co. 80134
Cash or check

Tool list	estima	ted used value	
Workmate	\$25	Roto zip tool	20
Dewalt job site tablesaw	400	router Porter Cable 75372 31/4hp	250
		router triton	
Delta 3hp planer	500	1/2"plunge	150
Delta drill press	300	router Dewalt trim	50
		router Bosch 1611	
Bosch router table w/ router RA1180	200	plunge	125
		Bosch "colt" trim	
Jet spindle sander JBOS-5	300	router	40
		router Bosch	425
Delta 1hp dust collector	200	1619EVS plunge	125
Delta Cilitata da	200	Porter cable belt sander Lg	40
Delta 6" jointer	300	_	. •
Dewalt 12" chop saw	350	Dewalt belt sander	30
		Porter Cable tiger	75
Tile saw w/ basin	50	saw	75
		Bisket jointer Porter	Ε0
Delta band saw 93K97860	400	Cable	50
		Bosch worm drive	75
Delta 18" belt sander31-255X	700	circular saw	75

			circular saw Bosch	
Delta contractor table sa	w	250	cordless	40
Mortising jig		25	jig saw Bosch	40
Rikon belt sander		75	Craftsman shop vac	50
			Delta mortising	
Excalibur scroll saw		400	machine	200
			Task Force rolling	
Delta shopmaster mini la	the w/ exten	800	tool chest	40
Lie Nielsen #5 new		300	Dewalt radio	50
			Porter Cable	
			pancake	125
plane #5		25	compressor 135psi	125
Stanley #92 rabbit plane		45	Delta air filter large 50-870	100
			Craftsman 1hp	
Lie Nielsen # 60 1/2 new		135	grinder	75
Lie Nielsen #62		175	Cordless drills	30
Lie Nielsen #112 new		175	Palm sanders	30
			Dewalt Corded drill	
Paint guns	25ea		DWD115	35
			Dewalt angle	
Veritas smoother plane r	new (#112)	150	grinder	75
Bostitch framing Nail gur	1	100	Dewalt 1/2" drill	45
			Dewalt 1/2" angle	405
Bostitch brad nailers		80	drill	125
			Makita angle drill	75
Bostitch flooring nailer		150	1/2"	75
			Dewalt cordless 24V drill	60
Bostitch staplers		125		00
	20.75		Makita buffer/ polisher	75
misc. nail guns	30-75ea		Bosch 1370 DEVS	, 3
Varitas hanning giuda		60	disk sander	125
Veritas honning giude		15	Doweling jig	25
Hopper gun		15	Marples chisels box	23
Craftsman air compresso	ır	100	set new	70
Craftsman an compresso	'1	100	Remmington fasting	
Ridgit air compressor		100	tool	40
Fein multi tool		150	Incra box joint jig	75
Telli maiti tooi		130	Graco airless spray	
Acculite pro laser level		200	gun kit	40
		_00		

## PROFESSIONAL TRAINING SPECIAL APPLICATIONS SCHOOL

M.L. Campbell offers a range of comprehensive hands-on training seminars and technical support at participating Wurth Louis and Company locations - ask your local color specialist to schedule your class or consultation.

#### **INSTRUCTORS**

Gregg Veal & Zachary Thomas

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#### CLASSES

All classes are from 9:00 am - 5:00 pm

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March 21, 2019

Water Borne Finishes

April 18, 2019

Polyurethanes (NEW)

May 16, 2019

Sealers & Clears & Paints (NEW)

June 20, 2019

**Special Effects** 

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Staining, Toning & Shading

Hurry!
Attendance is
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#### WHERE

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#### COST

\$99 per class non-refundable advance payment

10% discount on finish products purchased at class.

#### RSVP

Gregg Veal (303) 704-0858, gveal@wurthlac.com
Lunch will be provided. Doors and finishing materials are supplied
BRING AND USE A RESPIRATOR IS MANDATORY.

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Website: <a href="https://www.bridgecitytools.com/default/">https://www.bridgecitytools.com/default/</a>

Questions or comments to <a href="mailto:sales@bridgecitytools.com">sales@bridgecitytools.com</a>. Please allow up to 2-4 business days for email and

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Two orders per year (to be determined) and must be shipped to one address. 10% discount, when ordered

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Website: www.paxtonwood.com/denver.aspx

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Tool Zone, Inc. 8651 Grant Street, Unit 1A Thornton, CO 80229 Phone: 303-252-8500

Website: www.toolzone.com

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

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

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president@coloradowoodworkersguild.org



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vicepresident@coloradowoodworkersguild.org



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## **Help Wanted**

Vacant- Publicity and PR Chair

We do not have a replacement Chair. I hope another member will step forward to help out?

Vacant – Newsletter Publisher

Assistance – Community Services Chair