



- ✓ Calculating flat grinds
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Our international membership is happily involved with "Anything that goes 'cut'!"

January 2020

## Calculating Flat Grinds – Part 1

Michael Faber

Please note: this article is the first in a series of three.

Flat grinds have their place in both the functional and aesthetic worlds and are typically done by holding the workpiece against a grinding belt that passes over a flat surface, or platen. For those of you who are pretty good at eyeballing and free-handing your flat grinds and get results you are happy with, this article may have limited value. I like to work things out on paper before moving metal around in the shop (I've found that paper experiments are often quicker and always cheaper than metal experiments) and control my grind angles by mounting my blade to a block that holds it square to the work rest and adjusting the angle between the platen and the work rest. Call me a rookie; I'm just not that good at free-hand grinding, and I'm after specific and reproducible results. The concepts presented here are intended to help you define and control your flat grinds to achieve the results you are looking for. The approaches given here may most benefit those who make stock-removal blades, but some of the concepts are still applicable to clean-up grinding of forged blades. Now, about the math...if you are one of those who bear lifelong scars from math classes where it was a struggle just to stay awake, let alone pass – don't panic! You don't have to understand math to be able to use it to accomplish something you want to do, just like you don't have to understand how and why all the parts of a car work together to be able to drive to the store to buy groceries.

Let's start by taking a qualitative look at some examples where grind angle matters, and what can happen when the grind angle changes. First, let's examine the case of a single, simple flat grind.

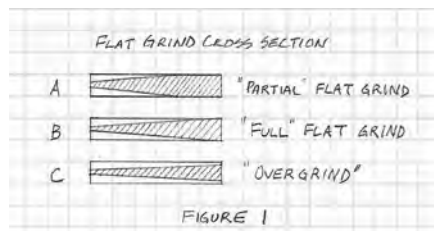
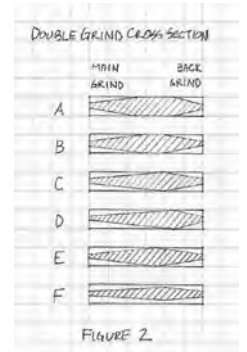


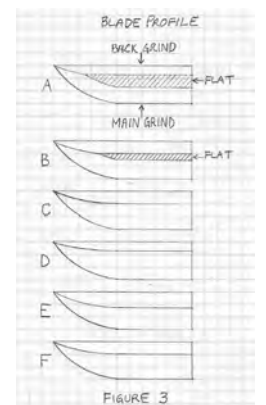
Figure 1 shows three examples of the cross section of a piece of bar stock that has been ground into a blade. Example "A" shows what I refer to as a partial flat grind, where the width of the grind is less than the full width, leaving a flat. In example "B" the grind angle has been reduced, and the width of the grind extends exactly from the edge to the backbone. I refer to this as a full-width flat grind. In example "C" the

grind angle is further reduced, resulting in what I refer to as an "overgrind." In profile appearance, example "C" is still a full width flat grind, but in cross section the thickness of the backbone is reduced. When you compare examples "A", "B" and "C" in Figure 1, it's easy to see that as you decrease the grind angle you increase the grind width until you reach the backbone. Further reduction in the grind angle from that point can't increase the grind width but does reduce the thickness of the backbone.

Now let's consider the case of a double grind. By this I mean a blade that has two flat grinds – what I refer to as the main grind that tapers down to the cutting edge that will be sharpened, and what I refer to as the back grind that thins down the backbone. The back grind may be sharpened or left as a false edge and may or may not extend the full length of the main grind. The main grind is usually wider than the back grind. When the main grind and the back grind meet, they form what I refer to as the common grind line and when either the main grind meet a flat, they form just a grind line.



Looking at Figure 2, we see a number of examples of double grinds in cross section that illustrate how the blade geometry can be changed just by changing the grind angles. In example "A" the main grind angle and the back grind angle are large enough that the two grinds don't meet, leaving a full thickness flat between them. In example "B" the grinds still don't meet, but both the main grind angle and the back grind angle have been reduced so both of the grind widths have increased, resulting in a narrower flat between the two grinds. If we reduce both of the grind angles further so that the main grind and the back grind just meet at the surface of the stock, we get the cross section shown in example "C". (Note that all of the cross section examples in Figure 2 are shown in profile in Figure 3 with the corresponding letters.) In example "D" we have kept the same back grind



Continued on page 8

# Review of the Leatherman Free P2

Edward Byrd Davis

I was recently able to purchase a new Leatherman Free P2. I wasn't really in the market for a new Leatherman; I've been using a Leatherman Rebar since I won it in a raffle in 2016, and I didn't have any complaints about that multi-tool. I saw the Free P2 demonstrated at a recent knife show, and that changed my mind immediately. This multi-tool has all of the elements I need in an everyday carry knife, but with an added flair: every tool is able to be opened and closed one-handed, including the pliers. The pliers open and close with a loose swing akin to a balisong, or butterfly, knife. The handles are held closed by a magnet, so a gentle pressure pops them open and leaves them freely swinging. I can then use any of the standard balisong swings to bring them around into the pliers configuration, and a quick snip-snap of the handles locks them in place with spring clips. The wire-cutting jaws on the pliers have replaceable anvils, as with the Rebar; so someone who is doing a lot of heavy wire cutting will be able to get more mileage out of this tool.



OK, so the pliers open like a balisong knife, so you can fidget with the thing without making people too worried; but what else is great about the multi-tool? The various tools do not open with nail nicks; instead, Leatherman has built them with levers that can be pushed with your thumb, fanning out the tools so that you can select the one you want and snap it into place. They lock with a spring that can be unlocked with your thumb, so it is

a simple matter to put any tool away with one hand as well. The knife blade opens easily with the thumb working an oval blade cut-out; and it locks on the same spring as the tools on that side, so it can be closed one-handed just as easily. The blade has a sheep-foot tip and a half-serrated edge. It comes shaving-sharp from the factory and is made from 420HC stainless.

On the same handle as the blade are two tools, one a bulky pry-bar and package opener and one a slim Phillips with a bottle opener at the base. On the other handle are the scissors, a can opener, an awl/extra-small flat-head screwdriver, medium flat-head screwdriver/ruler/wire stripper and file/small flat-head screwdriver. The pliers are typical Leatherman and include needle-nose and standard sections as well as two wire-cutting surfaces and a crimping tool. The Free P2 comes with a belt pouch, but it also has a removable pocket clip to allow you to carry it in your pocket with the blade tip up. The salesman assured me that the folded pliers-end of the tool was hard enough to use as an impact tool for driving nails, but I'm suspicious about that suggestion because it's not found in the official Leatherman documentation.

I opted for the slimmer P2, but there is also the P4 that adds an additional knife blade and a saw.

I've really enjoyed using this tool for the last month, but I do have a few things that I think could be improved. First, I miss having the ruler across the



entire body of the Leatherman tool. I used that ruler a lot, as I've discovered now that I'm carrying the Free P2: its tiny ruler-blade is just not enough for any measuring task. I may take a file and scratch some inches into the handles of my tool, I miss the function that much. I also find it difficult to open the scissors with one hand, because they are on the right side of the tool and I'm right-handed. I expect that means lefties would have a hard time with the main blade. Perhaps Leatherman will come out with a lefty version? Lastly, I don't like the low-profile Phillips screwdriver. I find it tears up the heads of screws if you have to put much torque onto them. One of my favorite things about the Rebar was its full-Phillips screwdriver.

To summarize: the Leatherman Free P2 is a sturdy multi-tool with complete one-hand accessibility and typical Leatherman features except for ruler markings on the handles. 9/10 would buy again. 🐉



## A New Year

And now only a few months away from our annual April Knife Show. Tables are filling up fast. The theme of the 2020 Show will be military which should produce some pretty special displays. The awards for the best displays will be the Seax knife pattern that has been enhanced by several handmade knifemakers. The latest to arrive is from **Theo Eichorn** pictured in this edition. See the color version on our OKCA website.

## The Beginning

I was pleasantly surprised at the response of the article on "The Beginning." I had more members compliment the article than any one article we have published in the *Knewsletter*. There are not that many members still around that could recall those early days of our organization. I listened to a member's request for this history, and I was happy to make this happen. I might point out that the source of this information was a product of my memory, photographs of the time and a review of those early *Knewsletters*.

## Today

The photographs in this issue are a result of **George Filgate**. George is available at the April Show to photograph that rare, historical knife you have or that handmade knife that is a beauty. In the early days I was the photographer. This was a natural for me as I had many years of professional photography experience. But putting the Show together and doing the photos was a bit too much, so we determined we would need to get a photographer to take pictures non stop during the Show. George has been doing this for us for the last several years and his work is impeccable.

## The January Meeting

Will be the election or re-election of officers. January 15, 2020.

## Your Membership

The mailing label sezs it all as to your being current as an OKCA member. For those that have not renewed (2019 label

code), this will be the last *Knewsletter* for you unless you re-up. You want that code to read 2020 or better. A big mistake would be to lapse and then try and re-up just before the Show. It ain't a gonna happen. Your membership is a sign of your support for our organization. Members keep us alive and healthy.

## The Holiday Show

Or Mini Show or Winter Show or December Show was a success based on fellowship, education, comradery and just plain fun. The public crowd attendance was conspicuously lower than previous years. We do not know why. We have changed nothing in our advertising or our email barrage left to our members. Maybe resting on our laurels might need a sharp jab, and we are discussing that now with some fresh ideas. The table-holder attendance was down 14%, which is a significant percentage. There was a dismal pre-registration for this Show, but luckily we had numerous walk-in table-holders. We had planned for more than the pre-reservations, so it was pleasing to individuals show up who had not forewarned us.

Getting a table at the December Show and also, to a degree for the April Show, is a show of support for our organization and the future of the "knife" community. Walking around and being a member is great, but the size and quality of the Show is what it is all about. Knife shows around the country are getting fewer, which to my mind is due to the lack of support. This same fate could be ours too if tables are not filled and membership wanes. Believe it or not, this is all about you and not us.

## Display Award Knives...

Gene Martin has distributed the Seax knife blanks in 1095 steel which will be finished for the 2020 Show. These are the knives that are presented to the winning displayers that will be at the 2020 Show. The individuals that have these blanks are as follows: **Brion Baker, Great Falls MT - Peter Bromley, Spokane Valley WA - Gary Dekorte, Sequim WA - Theo Eichorn, Grants Pass OR, - Gary Griffin, Bend OR - Cameron House, Salem OR - David Kurt, Molalla OR - Gene Martin, Williams OR - Glen Morris, Vancouver WA - Jeff Murison, North Plains OR - Bryan**

**Wages, Eugene OR - Harlan Whitman, Portland OR - Gene Martin - Williams OR - Event coordinator - Peter Bromley, Gary DeKorte and Theo Eichorn** have completed their knives. See these knives on our website.



## Articles this month....

are from **Edward Davis, Michael Faber, Tom McVey, Clay Stephens, Little Orphan Annie and Auggie Schmirz**. There is some great reading this month which is truly educational. I must remind our membership the *Knewsletters* are available on line, and the Google bots pick up on the articles. That makes these words available worldwide. You are an expert on your specific collecting interests, be they antique or custom, so let us hear from you and do an article for us.

## Make your room reservation

soon for the April Show. The Valley River Inn has been our partner for many decades. As properties sway and swing with new owners, the same holds true for this place of lodging. We have hit a few lows in accommodations at the VRI, but a meeting this last May seemed to convince me that the new management is getting their act together. They have extended the hand of partnership to the OKCA and provide the first-class rating that they held for so many years. The phone number for reservations is (541)743-1000. This is the number for the local VRI which should be better able to answer any questions and process the order more quickly. Make sure you mention the April Knife Show. Please contact us if you have difficulty.

## The Sizzler...

Don't forget our monthly meeting at the Sizzler Restaurant. It is the third Wednesday of the month, which makes it **January 15, 2020**. I always look forward to this gathering so mark your calendar and come be with us. Come smile with us with your latest purchase or that which will educate us. It is always nice to see my fellow knife enthusiasts that are a cut above. ↴

# The Seek-Re-Tary Report

elayne

The December meeting was held December 18, 2019, at the Sizzler Restaurant. There were 30 present. Thank you to those who are supporting our no host dinner meetings. Thank you, **Bernard Levine**, for the emails to our members to remind them of this event.

This was the meeting after the December Winter/Mini Show, and I was able to report the success of the Show from my point of view. I had 85 transactions. We received 39 single and 34 family memberships and 40 April table payments. I was also able to distribute cards to the members who renewed at the December Winter/Mini Show thanks to the efforts of **Ana Cooper and Tim Cooper** who laminated the 2020 membership cards.

Each transaction represents an envelope I will not receive and process for membership renewal or table payment. It is an opportunity to pay for 2020 tables before the deadline of December 15, 2019 and to pay for membership renewal before the January 31, 2020 deadline. It is also an ideal opportunity for me to chat with our members in a relaxed atmosphere and enjoy the Show as I am not always able to do in the BIG SHOW. It is a joy to match faces with member's names.

The crowds were mostly members. We did purchase an ad in the local newspaper in hopes to draw a larger crowd.

Plus many of our members plastered flyers for the December Winter/Mini Show at sporting goods stores, antique stores and at shows they attended. We do not charge admission at this event to encourage non-members to investigate what we are about.

Those individuals from whom I had not

received a commitment for the 2020 Show were emailed on December 23 with a table application form. The non-refundable deposit for the April Show room is due in January which is the reason our deadline for first right on your 2019 table is December 15. We then have sufficient time to assign tables to the individuals on our waiting list. We then can mail the table confirmations and membership cards after January.

All current (2019 and 2020) members will receive this issue. However, this will be the last issue mailed to none current (2020) members. Do not forget to renew. The label on your *Knewslettter* states your membership status (on the right side above your name). Is it 2020? OK! 2019? Renew now. If you have not received your table confirmation or 2020 membership card(s), please contact me (541)484-5564 or email [elayne@oregonknifeclub.org](mailto:elayne@oregonknifeclub.org).

We had a sample of the 2020 OKCA Club knife available for view. It is a Great Eastern two blade trapper pattern. Thank you **Roy Humenick** for coordinating this project with Great Eastern. We took commitments for the knives but did not

Payment must accompany your order to secure your knife. Please support this money making project for our group. The money is used to keep our table cost low.

The January meeting is the election of officers. All of the current slate of officers have agreed to fill their posts for the coming year if it is the wish of the membership. Thank you to all who have issued a special thank you in appreciation for the Club and its members. We, the officers, strive to fulfill the spirit of our Charter as we can.

We have flyers available for the April 17-18-19, 2020 Show. The flyers will be mailed to you when requested. Please help us advertise our event. The best advertising is word of mouth. One hundred per cent more effective than radio, tv, or internet. We (the members) are the driving force which makes our Show a success.

We thank all of the members who have contributed to our *Knewslettter*. This publication helps to bind our group together. If you have words to share but



*Theo Eichorn display award knife*

require a down payment, since we did not have the cost of the knife available. As of this *Knewslettter*, we have received that information. The cost of the knife is \$156.00. Please forward payment for the knives that have been ordered. Deadline for first right on your numbered/unnumbered knife is February 15, 2020.

do not type, handwrite the article; I will type it for publication. We all have a want to share our knowledge and interests.

See you at the meeting, January 15, 2020, at the Sizzler Restaurant, Gateway Blvd, Eugene/Springfield OR.



# The "Someday" Project

Clay Stephens

If your hobby is collecting, making, or repairing knives, then you undoubtedly have "someday" projects scattered about. These are bits of metal, bone, wood and other material that you're sure you'll use someday for that special project.

To be honest, my "someday" projects extend well beyond my expected lifetime. I have visions of family going through my shop when I'm gone. They'll be shaking their heads and scoffing as they examine this and that. They will eventually conclude that I had gone insane a long time ago and had been hoarding "meaningless" nick-knacks as a result.

Well, I'm proud to say that I've completed a long overdue project. About 20 years ago I purchased dagger blades from *Shotgun News*. They were advertised as "Military dagger blades

from a German armory." I envisioned a finished blade where I could simply build a custom handle. I couldn't have been more wrong. When the blades arrived, I was faced with bar stock that had a rough bevel grind. To even describe it as a "blank" would be stretching it.

Well, there they sat, in my shop, for nearly two decades, until I took them to an April Show a couple years ago. I approached two seasoned knifemakers to build the daggers. They are both friends with loads of talent. I thought I'd have a little fun by commissioning each without the others knowledge. The parameter for building the knife was simple. I wanted black handle material with nickle silver

metal work (if any).

The result was more than I hoped for. First was Danny Mac's dagger. He used black horn for the handle, a nickle silver guard and pommel. It's made for all to see. It's flashy with a wicked demeanor. I could easily see it hanging on the belt of a medieval warrior. The second dagger is by Craig Morgan. He used ebony wood and a nickle silver bolster. His design is sleek, covert, quiet and unassuming. It's meant to be hidden until needed.

What I love most about the daggers is that the artistic spirit of Danny Mac and Craig Morgan comes shining through. The project was well worth the wait. 🐉



Craig Morgan - top  
Danny Mac - bottom

# A Novel Gift Idea

Tom Mcvey

I was recently surprised by a gift from my friend, Dennis Harmon. I know that he enjoys throwing sharp objects at targets, but I was fascinated and pleasantly surprised by a gift from him of three sets of "throwers" made from butter knives. Re-purposing metal objects into knives is nothing new – just watch an episode of "Forged in Fire" to see it done. However, I had not thought of a browse through the silverware at Goodwill to make throwing knives. The butter knife blades are cut

down to approximately one inch, sharpened and lightly tempered. I don't know for sure, but I suspect bringing the knives up to a good tempering heat might leave you with a pool of metal and not a sharpened blade. Dennis Harmon found that cutting the blades to about one inch works pretty well, since longer blades tended to bend or break. Trial and error! The weight of the handle makes for a decent spin, and he finds that gripping the blade end works



best for him. I can just see matched sets of eight throwers! Ladies may wish to hide the good silverware sets! 🐉



January 2020





# Mini Show December 2019

## Photos By George Filgate





## Calculating Flat Grinds

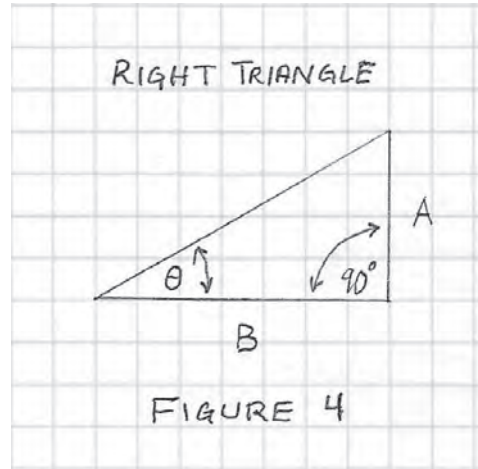
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angle as in example “B”, but we have decreased the main grind angle so that the two grinds meet at the surface of the stock. By doing this we have eliminated the flat that exists in example “B”, and we have moved the compound grind line that exists in example “C” closer to the backbone. In example “E” we do just the reverse – we keep the same main grind angle as in example “B”, but we decrease the back grind angle until the two grinds just meet at the surface of the stock. Now we’ve increased the width of the back grind relative to the main grind, and the compound grind line moves closer to the cutting edge. Finally, in example “F” we have further reduced both of the grind angles relative to example “C” while keeping the grind widths the same, resulting in the same profile but with reduced blade thickness. This is like a double overgrind case of example “C” in Figure 1. By looking at and comparing all of these examples you can see that by changing your grind angles, you can change your flat size, move the common grind line around and change the maximum thickness of your blade. Putting a subtle spin on it, working with a specific stock thickness and blade profile, in order to change your flat size, move the common grind line around or change the maximum thickness of your blade, you have to change your grind angles.

OK, enough general, qualitative rambling – let’s move on to accomplishing specific things by applying numbers to them. Before we can do this, we have to deal with just a little bit of math, namely algebra and trigonometry. For the algebra, we only need to know two things – first, if we have an algebraic equation with three variables in it, such as “ $A = B \times C$ ”, if we know the numerical value of any two of the three variables, “A”, “B” and “C”, we can determine the numerical value of the third variable. Second, when we have an algebraic equation, if we perform the same algebraic operation to everything on both sides of the “=” sign, we can manipulate the equation to make it easy to solve it for our unknown

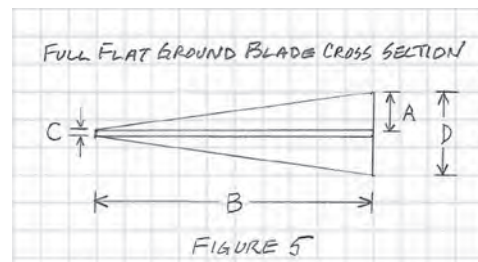
variable. Without going through all of the steps, our equation “ $A = B \times C$ ” can then become “ $B = A \div C$ ” or “ $C = A \div B$ ”. Pretty painless so far. Now for the trigonometry.

Let’s look at a right triangle (that’s a triangle that has a  $90^\circ$  angle in it) with the two sides forming the right angle




labeled “A” and “B”, as in Figure 4. The angle opposite side “A” is labeled “ $\theta$ ”. Now, here’s the trigonometry part: the length of side “A” (also referred to as “rise”) divided by the length of side “B” (also referred to as “run”) is equal to the tangent of the angle “ $\theta$ ” (designated as  $TAN(\theta)$ ). That’s it! For our purposes here, that’s all the trigonometry we need to use.

“Yeah, yeah,” you say. So what’s this have to do with knifemaking? Let’s take that triangle and flatten it out a bit, take another identical triangle, flip it upside down and put it underneath, and then sandwich in a thin rectangle between



them, as in Figure 5. Now we’re looking at the cross section of a full width flat ground knife blade that hasn’t been sharpened yet. In Figure 5 “B” is the blade width at the widest point, “C” is the grind-to edge thickness, “D” is the blade thickness and “A” is the height from the top of the grind-to edge thickness to the

top surface of the stock. Now let’s put some numbers to this and work through a sample calculation. Let’s say we have a piece of  $5/32$ ” x  $1\ 1/2$ ” stock that we want to do a full width flat grind on. Referring again to Figure 5, we know that “B”, our blade width is 1.5”. We also know that “D”, our blade thickness is .156”. Let’s say that we want to set “C”, our grind-to edge thickness to .020” (you can go thicker or thinner, but if you go too thin the edge can warp during heat treat, and if you go much thicker you will spend more time sharpening and also increase the width of the sharpening bevel). So, to create this blade, what do we need to set our grind angle to? From our triangle in Figure 4 we know that the tangent of the angle we want to find is “ $A \div B$ ”. We have a number to use for “B” (1.5”), but we have to figure out a number to use for “A”. To do this, we take the blade thickness, “D”, subtract the edge thickness “C” and divide by 2 (we’re only working with one triangle or one side of the blade at a time). Now we have “ $A = (.156 - .020) \div 2$ ”, so “ $A = .068$ ”. Now that we have a value for “A”, we can solve our equation,  $TAN(\theta) = A \div B$ . Now,  $TAN(\theta) = .068 \div 1.5$ ”, so  $TAN(\theta) = .04533$ . Now, if you’re a dinosaur like me, you could blow the dust off an old book of mathematical tables, go to the trigonometry tables and look up what angle corresponds to a tangent of .04533, but it’s quicker and easier to just enter .04533 into your calculator and press the  $TAN^{-1}$  button (or ARCTAN, or ATAN or however they’ve labeled the inverse tangent function). Either way, you’ll find that the grind angle,  $\theta$ , is  $2.596^\circ$ .

OK, so all you have to do is set your grind angle to  $2.596^\circ$  and grind away – your friends will be amazed! Actually, it’s time to bring up a couple of questions – What happens if you don’t hit that angle exactly? How accurately do you have to set your grind angle? We’ll address these questions next time. In the next article we will be referring back to this one, so if you are really interested in following this article series, you may want to save your *Newsletter*. 





# OKCA Free Classified Ads

Free classified ads will run up to three issues and then be dropped. Available only to paid members. Write your ad on anything you have handy (except dinosaur rib cages) and email or snail mail to the OKCA PO Box 2091 Eugene OR 97402. The number and size of ads submitted by a single member will be accepted, or excepted, dependent on available space and the mood of the editors.

**A large collection** of vintage Puma knives for sale at [www.knivesonnet.com](http://www.knivesonnet.com)

**GEC** - Great Eastern Cutlery knives for sale at [www.knivesonnet.com](http://www.knivesonnet.com)

**I'am selling** all my OKCA Club knives, have all but the year, 2016. I have a few extras. Will not sell one at a time. Current value is over \$30,000. Not asking that much. Call me, we can talk. I have 30 Bowies, mostly handmade one-of-a-kind \$500.00 or what we agree. Fred Coleman (541)285-1894 home Thursday and Sunday.

**For Sale** - Bader III 2x72 variable speed grinder 2HP 220V with 10" wheel, 8" wheel flat platen and small wheel attachment. \$1,800.00. Contact Gary Martindale (253)307-8388.

**For Sale** - Baldor buffer. Mod 333B 3/4HP 3600RPM 1156/230V \$225.00 Contact Gary Martindale (253)307-8388.

**For Sale** - Hard core 2x72 variable speed grinder 1.5HP 115V 8" wheel, flat platen, small work rest \$1,800.00. Contact Gary Marintdale (253)307-8388

**OKCA ball caps for sale:** \$28.00 plus shipping. Quality black ball cap with camo and barb wire accent, embroidered OKCA logo as seen at Gunstock Jack's table U-3 during the 2019 show. Caps available on-line at <https://gunstockjacksknives.com/> or send email to [gunstockjack@embarqmail.com](mailto:gunstockjack@embarqmail.com) or available at the **2020 OKCA Show. For info call: (360) 516-0948.**

**Want to Learn to Make a Knife?** *The \$50 Knife Shop* by Wayne Goddard is now back in print and available from Steve Goddard. He also has copies of *The Wonder of Knifemaking*. Books are \$25.00 plus shipping. Give Steve a call today to order. (541)870-6811 or send an email to [sg2goddard@comcast.net](mailto:sg2goddard@comcast.net)

**Wanted:** Sequine Knives that are unusual, such as custom orders, gut hooks, or any other unusual models. Please email [jh5jh@aol.com](mailto:jh5jh@aol.com) with a picture attached or call (805)431-2222 and ask for Jack.

**Shelton Pacific** has outstanding Koa, and the other excellent knife handle blocks we are known for. If you want to shop, visit [www.stores.sheltonpacific.com](http://www.stores.sheltonpacific.com).

**FOR SALE:** Custom hand-made Sheffield Bowie by Bruce Bump of Walla Walla WA. Made 10/2/05. Damascus 1084 15N20 600 layer steel blade. 12" OAL, 8" blade. Mammoth ivory scales, nickel silver guard. As usual this is a very beautiful Bruce Bump knife. No sheath but comes with a Bill's Custom zippered case. Can email pics, see on eBay. Hawthorne Cutlery in Portland. (503)234-8898

**For Sale:** Model 4500 Sherline bench top lathe \$450.00. Call or text Zac & Sara Buchanan (541)815-2078.

**Loveless Style Sheaths:** made to order. Call or text Zac & Sara Buchanan (541)815-2078.

**Niagra Knife Steels:** email [zacbuchananknives@gmail.com](mailto:zacbuchananknives@gmail.com) for a quote.

**Wanted:** Remington scout/utility knife with pioneer boys or highlander boys shield or heroism shield. Email [jpitt306@earthlink.net](mailto:jpitt306@earthlink.net) or phone Jim (562)716-9857.

**Buying OKCA Club knives** for my personal collection. Looking for the 1998 Wayne Goddard with the wood beaver handle. I would consider buying other Club knives and Wayne Goddard knives. Also looking for Spyderco Kopas. Call or email Jordan (310)386-4928 - [jgl321@aol.com](mailto:jgl321@aol.com)

**Randall Made Knives.** Buy, Sell, Trade. Also a good selection of Case knives and many custom knives for sale or trade. Jim Schick [www.nifeboy.com](http://www.nifeboy.com) (209)295-5568.

**Wanted :** Western Wildlife Series etched knives as follows: 532 bear, 532 eagle, 521 eagle, 534 antelope. Will pay fair price for any. Call Martin at (406)442-2783 leave message.

**Knives For Sale:** Antique, custom & factory, pocketknives, folders, fixed blades, dirks, daggers, bowies, military, Indian, frontier, primitive & ethnic. Other collectibles also. Current colored catalog - FREE. Northwest Knives & Collectibles (503)362-9045 anytime.

**Wanted:** 2012 Case XX USA medium stockman #6318 PU CV jugged bone w/punch w/signature of Skip Lawrie. Nuno Sacramento (916)682-9305.

**For Sale:** Buck knives. Large consignment list available from Larry Oden. Typically have Buck standard production, limited edition, BCCI, Buck Custom and Yellow horse models. Email [lodan@dka-online.com](mailto:lodan@dka-online.com) or call (765) 244-0614 8AM-8PM EST.

**For Sale:** older knives. Please visit HHknives at [www.allaboutpocketknives.com](http://www.allaboutpocketknives.com). Thanks for looking.

**Mosaic pins** and lanyard tubes by Sally. See at [www.customknife.com](http://www.customknife.com), email at [sally@customknife.com](mailto:sally@customknife.com). (541)846-6755.

**Blades and knifemaker supplies.** All blades are ground by Gene Martin. I also do custom grinding. See at [www.customknife.com](http://www.customknife.com), contact Gene at [bladesmith@customknife.com](mailto:bladesmith@customknife.com) or call (541)846-6755.

**Eugene 5160 Club:** A Club for knifemakers of all stripes, meeting monthly. Check out our newsletter archive to get a feel for the group: [elementalforge.com/5160Club](http://elementalforge.com/5160Club). Sign up for newsletter & meeting reminders by finding us on Facebook at "5160 Club" and click the "Newsletter Sign up" tab. Non Facebook users can still find us at: [facebook.com/5160Club](http://facebook.com/5160Club).

**Useful reference books on blades.** Collectible knives, custom knives and knifemaking, military knives, swords, tools, and anything else that has an edge. Email for a list. Quality Blade Books C/O Rick Wagner P O Box 41854 Eugene OR 97404 (541)688-6899 or [wagner\\_r@pacinfo.com](mailto:wagner_r@pacinfo.com).

**Knife Laws on-line.** Federal, state, local. Bernard Levine (541)484-0294 [www.knife-expert.com](http://www.knife-expert.com).

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## OKCA Club Whot-zits & Whos Zits

**Craig Morgan**  
President (541)968-5278

**John Priest**  
Vice President (541)517-2029

**Elayne Ellingsen**  
Sec/Tres. (541)484-5564

**Joshua Hill**  
Master at Arms (503)580-8961

**Dennis Ellingsen**  
Show Chairman (541)484-5564

**Knewsletter** by elayne & dennis

**Web page** --- <http://www.oregonknifeclub.org/>

**Club email** --- [okca@oregonknifeclub.org](mailto:okca@oregonknifeclub.org)

**Letters to.....**  
OKCA P O Box 2091 Eugene OR 97402

**Packages to.....**  
OKCA 3003 W 11 Ave PMB 172 Eugene OR 97402

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## 2020 Great Eastern #23 Trapper Pattern

The Oregon Knife Collectors 2020 Club Knife will be a new offering from Great Eastern, a “Northfield Trapper” pattern. This specialty knife is a two blade pocketknife. The blade is 1095 steel and will be tang stamped Northfield. Size closed is 4.50”. The scales are antique jugged bone. There will be a total of 100 knives, 50 will be serial numbered. All 100 knives will be etched with the Oregon Knife Collectors’ logo and have the beaver on the handle. They will be housed in a Great Eastern tube with the OKCA label. This offer is only available to OKCA members.

This is a fund raising project for the OKCA which allows members to support the organization and get a great return for their investment. We have a special offer for those who purchased a serial numbered knife in 2019. You can purchase the serial number you had last year, plus up to three non-serial numbered knives, for **\$156.00** each. Offer ends **February 15, 2020**. After this date, all unclaimed serial numbers and unnumbered knives will be offered at the price of **\$170.00**. Purchasing multiples of non-serial numbered knives by all members is encouraged. 🐿️

Payment in full must accompany order to reserve your knife.  
 Available only to OKCA members -  
 Delivery at the Show on April 18, 2020 OKCA - PO Box 2091 - Eugene, OR 97402



Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### OKCA Trapper Pattern

Quantity \_\_\_\_\_ @ \$156.00 ea \$ \_\_\_\_\_

Shipping if needed - add \$20.00 \$ \_\_\_\_\_

Total \$ \_\_\_\_\_

