THE MOSTLY MONTHLY NEWSLETTER OF THE

EUGENE 5160 CLUB ~ NOVEMBER 20WTF20

https://www.facebook.com/5160ClubTheGroup newsletter archive: http://www.elementalforge.com/5160Club/

5160 CLUB ZOOM MEETING

NOVEMBER 5TH 6PM

Same setup as all the recent meetings. Thanks **Edward!** I may sound like a broken record, but: If you have not used Zoom I highly recommend downloading the app and setting it up ahead of time. It runs on most phones, tablets, and up-to-date computers (but not so good on Linux in my experience). The more generous the screen size the better to view what others are presenting. Here's the download site:
https://zoom.us/download#client_4meeting

You do not need to create a "Zoom account" to participate in the meeting.

The recurring "join meeting" link is:
https://uoregon.zoom.us/j/96183250858?pwd=blpkOTlVMXdINlV0YW4wb2NRRjBMZz09

I doubt if you'll need them but the meeting ID is:
961 8325 0858
and the passcode is:
098053

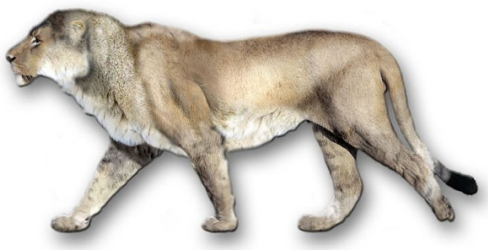
Think about what you want to share in the meeting and how to position your phone/tablet/computer/web cam to show your stuff!

And remember Facebook "5160 Club – The Group":
https://www.facebook.com/groups/5160ClubTheGroup/
as a place to share your questions, insights, or photos.

OCTOBER'S ZOOM MEETING

When I jumped into the meeting, **Edward Davis** was talking about the heat treat oven that he's installing in his shop. I gathered that he got the Evenheat 120v version for household current. He got the deeper (18") version but passed on all the optional upgrades. Keep it simple.

Edward lamented that he is on the hook to finish a chapter in an upcoming paleontology publication. Something to do with the Paisley Cave area of Eastern Oregon (famous for some 14,300 year old human coprolites – aka fossilized poop). But Edward is more of an animal fossils kind of guy, and he carried on for awhile about an American lion (not a cougar, a true lion) which stood almost 4' high at the shoulder.



He admitted that he hasn't done knife work lately, but is very pleased with his build-a-watch-from-spare-parts project.

Now if he'd just made some clothing too we could say that he's been taken away by The Lion, the Watch, and the Wardrobe ;-)

Edward prompted **Brock** to talk about a knife that he made from a Wayne Goddard blade blank that he was gifted. Tyler Aldrich came down and hung out with him "right at the beginning of the COVID stuff" and gave him the folder blade. Brock was a little more cautious at the grinder because if something went sideways on the grinder it wasn't a case of "oh, I'll

just profile another blade blank."

Brock made a slipjoint folder with the blade.

The blade is ATS-34. He's had a piece of the same steel floating around for a decade that was "close enough in dimension that I only had to surface it a little bit to use it for the backspring." The handle is G-carta from G.L. Hansen & Sons (the dark dark green) and Juma for the white section. There are some G-10 spacers on titanium liners.

In response to a question Brock noted that he got the titanium (and other supplies) from Alpha Knife Supply *[which is listed in the Knifemaker General, Steel Sources, and Stabilizing sections at the end of the newsletter]*.

When he demonstrated the slipjoint it had a very satisfying "walk and talk."

He's been kicking out kitchen knives and folders.

Edward chimed back in with an eBay purchase – a Khyber brand folder with LARGE pin washers.

The handle is red Micarta "it's not showing up at all on this screen, but it's super sweet" with the large nickle-silver washer for the peened forward pin.

Brock noted that the collar or washer on the front pin can be the same steel as the pin and the transition can be almost undetectable, or sometimes a contrasting color creates a good effect. He showed a folder he made that uses dark red Micarta for the pin washer with a 416 stainless pin. This one has a layered steel blade: 80CrV2 and 15N20 – I didn't catch what the outermost layer is. The Zoom view doesn't pick out the colors very well.

Brock mentioned that he's seen another maker using multiple concentric contrasting rings around the pin.

At that point **Brome McCreary** let us know that he has some equipment and steel from Joel Puckerson's shop that Joel wanted to offer to the group. All these parts are free to a new home. *If you are interested in any of these, give Brome a shout at either bromemccreary@gmail.com or through his website contact page at https://www.stoneandsteel.net/contact-brome*

"I have these items at my shop near Albany, Oregon. Folks are welcome to ask any questions, and to arrange a pickup, etc. Anyone interested should not be shy; I would like to get them moved to new homes as soon as is reasonable."

A basic fire brick forge; good starter forge. Just add a propane torch. High temp bricks inside, more sturdy firebricks outside.

A bunch of mixed recycled steel. Some vehicle leaf springs, cut up circular saws, etc. this photo shows about half of the pile.

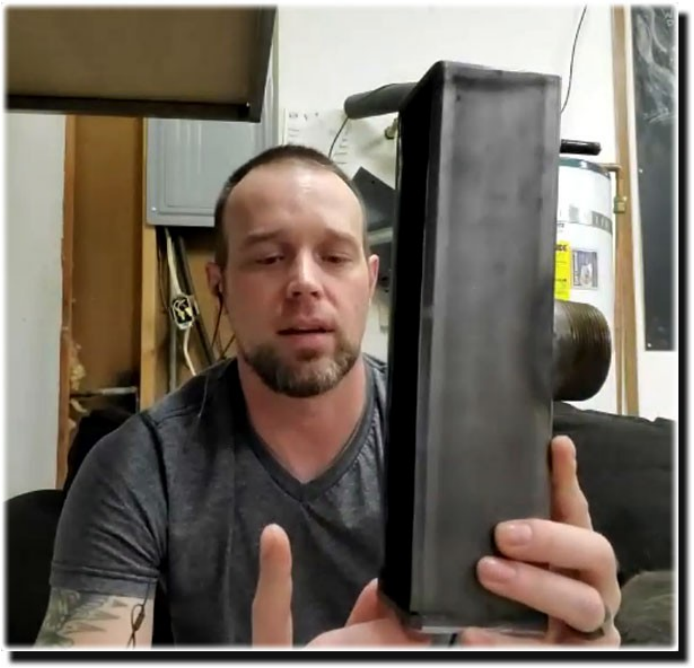
Sections of bandsaw steel, possibly 15n20.

Basic anvil made from railroad rail section.

Small anvil and hammer head.

The body of a large forge? No lining, etc.

Tyler Aldrich told us that he's making a batch of good sized ribbon burners, some of which will be for sale when finished. When finished they will be 12” long by 3” wide by 5-1/2” deep.



Billy O figured that if the smoke level in Portland required wearing a respirator he might as well do some grinding, and knocked out 48 billets worth of blanks for pattern-welded steel.

He's welded up half a dozen billets for his water-and-cloud pattern blades. He's been doing 15 layers for the water and upped that to 39

layers in one billet, 120 layers in another, 240 layers in a third, and other variations, to see how that looks.

He's also building a disk grinder from parts. “Fabri-cobbling” as Tyler calls it.

Conversation turned to the Nielsen disk grinder system for quick-changing disks using magnetized removable disks:
https://www.facebook.com/NielsenDesignDiscGrinders/

Somehow that veered over to this YouTube video of making a spiral welded Damascus gun barrel!
https://www.youtube.com/watch?v=K7eacS2oDcs

Lynn Moore had to evacuate for 5 days due to the Holiday Farm fire. The fire stopped 5 or 6 miles from his place, “too close for comfort.” Sadly they lost the contents of their freezer to the power outage. Beyond that it sounded like they came through OK. Other than building a couple of new press dies he's been too busy for knifemaking.

Brock came back on to show a knife in a new pattern for him that “I wish I would have had when you have to have something on your vest... something you can deploy easily, works well with transitions, enough traction to keep it in your hand but not so much that it snags on things.”

The first one has an ATS-34 blade at 0.130” thickness “a little thinner than I would want for a true duty blade but for utility – just fine.” The handle is gray-scale G-10. The steel finish is his “Rock Steady” etch-and-tumble process.

The next one has an AEB-L blade at 0.195” thick with the same ferric chloride etch and tumble. The thickness in more appropriate for a duty blade. The handle has G-10 liners with linen Micarta scales and pins. He got the Micarta pins as well as some other supplies at Atlas Billiard *[listed under Wood & Handle Material at the end of the newsletter]*.

“The AEB-L is winning my heart, not only for a price point, but it's a little tougher than some of the other options in that price point... everything will break, but you've gotta work at it, you've got to mean to break it... you can make an affordable knife that still performs really well.”

He also shared that he's started using the UltiClip on his sheaths. “I've been familiar with them on magazine pouches and holsters for guns” and he's enthused about how they work on a sheath. “You can guarantee that the pocket clip or holster or whatever is going to stay attached to whatever you want it to.”
https://www.ulticlip.com/

Tyler started a discussion on press design – to get what folks think about having the ram come down from above or up from below.

The main trade-off seems to be that having the ram come down allows better visibility, where having the ram come up from below keeps the frame height lower. Also with the ram coming up, your work base is moving.

Brome suggested having the cylinder in the base but upside down with arms up to the upper die – so that the upper die would move and the lower die would be fixed, but the height of the frame above the lower die would be limited to the travel plus the thickness of the upper die & frame.

Tyler is almost ready to build himself a press. He's

also looking at having a work-through hole to let you compress a bar in the long axis. This led into a discussion of dies and quick die interchange design, limit switches, and travel speed.

One guy threw in the loaded question: “How old do you think kids ought to be before you let 'em start using the belt grinder? My son is 11 and he's chomping at the bit to make his own knife.”

One person shared that it has less to do with age than where the kid is at, as with when to let them have their first knife or train them with firearms. When his own son showed interest in making a knife, he showed him the belt grinder “and he was like 'H*ll no!'... and then later he moved into it...” with a more mature attitude “because he knew how scary it was... which was a good thing!”

Another person shared that he guided his grandson through making a knife when he was 11. “The nice thing about having variable speed is that you can slow it down so it's not blazing fast... but like us: you take some skin off you learn not to do that again!”

Another person related their experience teaching blacksmithing in a camp environment. “I prefer them to be at least 10 or 11...” but found it depends on the kid's level of awareness. “I'd start them on the 'Horrible Fright' 1x30 that you can stop with your thumb... then if I trusted them I'd let them use the Grizzly grinder and go from there.” *[This sounds like very good advice from the voice of experience.]*

...and that wrapped up the Zoom meeting.

...catching up on a couple of emails that I'd neglected...

Here's a link sent from Jim Jordan with some anvil and vice porn:
https://www.homemadetools.net/forum/antique-giant-anvils-vises-other-tools-gif-photos-80796

And here's another chef knife photo that Billy O sent me a couple of months ago – I'm negligent!

Have fun, keep well, and work safe – and see you in the Zoom-verse!

Your Scribe ~ Michael Kemp

Website Links

5160 Club

Check out Facebook “5160 Club – The Group”:
https://www.facebook.com/groups/5160ClubTheGroup/
as a place to share your questions, insights, and photos.

5160 Club Newsletters are archived at:
http://www.elementalforge.com/5160Club/

Oregon Knife Collectors Association (OKCA)

The OKCA is putting out their newsletter, but the monthly dinner meetings and the December show are COVID canceled. The big knife show in April might

happen – sign up for their newsletter to stay in the loop: http://www.oregonknifeclub.org/index.html Go to the "Knewslettter" link and scan a recent newsletter for a membership form and contact info.

Forums

Lambowie – Check out this new on-line marketplace. It's billed as a low-overhead alternative to eBay for forged knives, swords, etc. as well as bladesmithing equipment and materials. If you have feedback on this site – let me know!
https://lambowie.com

Bladesmith's Forum aka Don Fogg Forum
http://www.bladesmithsforum.com/

Knifedogs Forum (USA Knifemaker)
https://knifedogs.com/

American Bladesmith Society
http://www.americanbladesmith.com/ipboard/

Usual Suspects Networkhttp://www.usualsuspect.net/forums/forum.php

Blade Forums
http://www.bladeforums.com/

Hype-Free Blades
http://www.hypefreeblades.com/forum

Peter Newman of Bent River Forge/Farrier Supplies has a closed Facebook group: Blacksmiths of Oregon
https://www.facebook.com/groups/blacksmithsoforegon

References

Wayne Goddard's books are available at Amazon:
http://www.amazon.com/Wayne-Goddard/e/B001JS9M10
And you can email the Goddards directly for his DVD at Sg2goddard@comcast.net

Most of the companies in the "Knife Maker General" links (below) have a section for how-to books and DVDs.

Verhoeven's Metallurgy For Bladesmiths PDF – this is a very deep dive, not an introduction. I no longer see the original free PDF – but here's the updated book on Amazon:
http://www.amazon.com/Steel-Metallurgy-Non-Metallurgist-J-Verhoeven/dp/0871708582

ZKnives – Knife steel composition/comparison/etc.
http://zknives.com/knives/steels

Kevin Cashen's Bladesmithing Info
http://www.cashenblades.com/info.html

Knife Steel Nerds – a metallurgist's blog on the technical details of steel
https://knifesteelnerds.com

Tempil Basic Guide to Ferrous Metallurgy
http://es.tempil.com/assets/5/31/Basic_guide_to_ferrous_metallurgy_(2).pdf

From the Heat Treating Society of the ASM – the Heat Treater's Guide Companion for Android devices.
https://play.google.com/store/apps/details?id=com.pfiks.mobile.heattreaters&hl=en

My own "Knife Info" has musings and cheat sheet charts – plus Oregon and Eugene knife laws:
http://elementalforge.com/tips_notes/

Classes for Knife Making, Etc.

Erik Olson is teaching intro to forged knives in Eugene. I don't have a business contact but his personal Facebook page is:
https://www.facebook.com/erik.olson.77715

Farrier Supplies aka Bent River Forge offers intro and advanced blacksmithing classes – and supplies.
26729 99W, Monroe, Oregon
Coal, coke, forges, parts, tools, classes...
https://www.facebook.com/FarrierSuppliesOR
(541) 847-5854

Anvil Academy in Newberg has various classes now including a knifemaking class:
http://anvilacademy.info/schedule/
http://newbergdowntown.org/whats-happening/knife-making-class/

Gene Martin offers personal instruction at his shop south of Grants Pass for a daily rate.
http://www.customknife.com/

Bear Iron in Cottage Grove offers blacksmith classes through Lane Community College.
https://www.beablacksmith.com/sign-up

Michael and Gabriel Bell of Dragonfly Forge offer an ongoing series of small group classes in Japanese style sword forging and fittings. Located on the southern Oregon Coast.
http://dragonflyforge.com/

Murray Carter offers small group classes in a variety of subjects, primarily focused on traditional Japanese cutlery. Located in Hillsboro, Oregon.
http://www.cartercutlery.com/bladesmithing-courses/

White Hart Forge offers intro to blacksmithing classes plus some advanced classes and some intro to knife making classes. Oak Grove, Oregon (just south of Portland). https://whitehartforge.com/classes/

Blacksmithing and some bladesmithing workshops are hosted regularly by the Northwest Blacksmith Association: http://blacksmith.org/

David Lisch is an ABS Master Smith who teaches classes in Washington.
http://www.davidlisch.com/

The ABS (American Bladesmith Society) offers classes in Washington, Arkansas and elsewhere – if you are up for traveling across the country to take classes, check out their "Schools" link:
http://www.americanbladesmith.com/

James Austin offers forging classes in Oakland, CA – axes, tongs, viking anvil, etc.:
http://forgedaxes.com/?page_id=148

Keep an eye out on California Blacksmith Association for workshops and events:
http://calsmith.org/CBA-Events

USA Knifemaker has a lot of fun & informative videos on their YouTube channel:
https://www.youtube.com/user/USAKnifemaker/videos
… and hey - "free" is a hard price to beat!

Nick Wheeler also has a good YouTube channel with a lot of how-to videos:
https://www.youtube.com/user/NickWheeler33/videos

General Tools & Supplies

Zoro
https://www.zoro.com/

MSC Direct
http://www.mscdirect.com/

McMaster-Carr
http://www.mcmaster.com

Grainger
http://www.grainger.com

Surplus Center
http://www.surpluscenter.com/

Victor Machinery Exchange
http://www.victornet.com/

Widget Supply - Dremel tools, needle files, craft knives, drill bits, etc – Albany, Oregon.
https://widgetsupply.com

And of course there are the local hardware stores like Jerry's, and chains like Harbor Freight and Woodcraft.

Knife Maker General

Lambowie – a low-overhead eBay alternative for custom knives and knifemaking equipment.
https://lambowie.com

Jantz Supply – Davis, OK
http://www.knifemaking.com

Texas Knifemaker's Supply – Houston, TX
http://www.texasknife.com

USA Knife Maker's Supply – Mankato, MN
http://www.usaknifemaker.com/

Knife and Gun (K&G) – Lakeside, AZ
http://www.knifeandgun.com/

Alpha Knife Supply – Cedar City, UT
http://www.alphaknifesupply.com/

True Grit – Ontario, CA
http://www.trugrit.com

Especially Abrasives – lower cost 2x72 belts
http://www.especiallyabrasives.com/

Steel Sources

New Jersey Steel Baron
http://newjerseysteelbaron.com/

Coyote Steel – wide variety of new steel, scrap, copper, brass, bronze – Garfield & Cross St. Eugene
http://www.coyotesteel.com

Martin Brandt – 5160 Club member in Springfield who always has some knife steel and supplies on hand. 541 954-2168

Kelly Cupples (High Temp Tools) – Alabama
http://www.hightemptools.com/steel.html

Niagara Specialty Metals – New York
http://www.nsm-ny.com (click Products/Knife Steels)

SB Specialty Metals – New York & Texas
http://shop.sbsm.com/

Sandvic – stainless steels – Texas & Pennsylvania
https://www.materials.sandvik/en-us/products/strip-steel/strip-products/knife-steel/sandvik-knife-steels/

Burcham's Metals – Albany, Oregon – recycled metal of all sorts. Very good pricing.
http://www.burchamsmetals.com

Cherry City Metals – Salem, Oregon – metal recycling and useful objects
http://www.cherrycitymetals.com/

Swift & McCormick Metal Processors Inc.
3192 NE Sedgwick, Terrebonne, Oregon
541 548 4448
Everything from big chunks of steel to railroad spikes. Very good prices. They can torch-cut big pieces down for a small fee.

Amtek – tool steel & cutting tools
http://www.amteksteel.com/index.html

Pacific Machinery & Tool Steel – Portland, Oregon
http://www.pmtsco.com/tool-die-steel.php

Alpha Knife Supply – Cedar City, UT
http://www.alphaknifesupply.com/

Knifemaker Equipment

Pheer [Gresham, Oregon] – affordable grinder made in Oregon
http://www.2x72beltgrinder.com

Origin Blade Maker – aka Oregon Blade Maker [Portland, Oregon] – affordable chassis and accessories, good reputation – with or w/out motor
https://originblademaker.com

AMK [Ohio] – affordable grinder, quick-change between platen & contact wheel
http://amktactical.com/

Northridge Tool [Ohio] – precision manufactured belt grinders http://www.northridgetool.com/

Coote [Port Ludlow, Washington] – affordable, simple grinder – you supply the motor
http://www.cootebeltgrinder.com

Marinus Kuyl [Hillsboro, Oregon] – another affordable grinder made in Oregon – and parts – you provide the motor.
https://originblademaker.com/

Broadbeck Ironworks LLC – [Maryland I think] – Grinders, attachments, belts, leather sewing machines
https://www.brodbeckironworks.com/attachments

Beaumont (KMG) [Ohio] – the industry-benchmark 2x72 belt grinder
http://www.beaumontmetalworks.com/shop/

Travis Wuertz [Arizona] – premium versatile grinder
http://www.twuertz.com/Home_Page.php

Grinder-In-A-Box – grinder kit, assembly required
http://www.polarbearforge.com/grinder_kit_order.html

The "No Weld Grinder" plans can be purchased from
http://usaknifemaker.com
either as a booklet or as a download – just use the search box to enter "no weld grinder"

Wayne Coe [Tennessee] – grinders, motors, VFDs...
http://www.waynecoeartistblacksmith.com

Contact Rubber Corp – wheels etc.
http://contactrubber.com/contact-wheels.asp

Sunray – drive wheels
https://www.sunray-inc.com/products/wheels/

Anyang [Texas] – air hammers from 20# to 165#
http://www.anyangusa.net/

Meyer Machine Tool [Ohio] – treadle hammer
http://www.meyermachinetool.com/Blacksmith-div-.html

Spencer/Clontz tire hammer plans/workshops
http://www.alaforge.org/Trading_Post.html

Helve Hammer and Quick-Change Dies Video – from a BladesmithsForum.com thread.
https://www.youtube.com/watch?v=uzruqYkKGNM

True Grit – under "All Products"/"Machines & Accessories"
http://www.trugrit.com

Forge & Refractory

Chile Forge
San Marcos, Texas
http://www.chileforge.com/

Mankel Forge – Muskegon, Michigan
http://mankelforge.com/forges.html

Mathewson Metals – forges, burners, anvils...
Tacoma Washington
https://mathewsonmetals.com

Western Industrial Ceramics Inc.
All things refractory – Tualatin, Oregon
http://www.wicinc.com/

High Temp Tools (scroll down the page for the category buttons) Tuscaloosa, Alabama
http://www.hightemptools.com/supplies-mainpage.html

High Temp Inc. for Kaowool, castable refractory, fire brick up to 2,600°f, etc. Portland, Oregon
http://hightempinc.net/

Omega – thermocouples & measuring equipment
Stamford, Connecticut
https://www.omega.com/en-us/

Auber – more thermocouples and controllers, etc.
Alpharetta, Georgia
http://www.auberins.com

Hybridburners – home of the venturi T-Rex
Smithville, Georgia
http://www.hybridburners.com/

Pine Ridge Burners – for ribbon burners and all associated fittings, blowers, valves, etc.
Conway, Massachusetts
https://www.pineridgeburner.com

Zoeller Forge – low cost venturi & parts: Z Burners
Lanesville, Indiana
http://zoellerforge.com/

Here's the original article on making a ribbon burners that John Emmerling wrote back in 2005 for the NWBA Newsletter:
http://blacksmith.org/2005-1-hot-iron-news/
You can download the PDF from that site. John's article starts on page 11.

Blacksmith

Farrier Supplies aka Bent River Forge
26729 99W, Monroe, Oregon
Coal, coke, forges, parts, tools, classes...
https://www.facebook.com/FarrierSuppliesOR
(541) 847-5854

Blacksmith Depot
http://www.blacksmithsdepot.com

Pieh Tool
http://www.piehtoolco.com

Centaur Forge
http://www.centaurforge.com

Quick and Dirty Tool Co.
http://quickanddirtytools.com/

Logo/Etching/Stamps

Ernie Grospitch – Blue Lightening Stencil
http://www.erniesknives.com/

IMG International Marking Group
http://img-electromark.com/

Marking Methods, Inc.
http://www.markingmethods.com

Electro-Chem Etch
http://www.ecemmi.com/products.html

Steel Stamp, Inc.
www.steelstampsinc.com

LectroEtch – Ohio
https://lectroetch.com/

Heat Treat Services

Here are some folks who provide heat treating services for blades. While all of these have been recommended by one reputable person or another I have not had experience with them. If you use one, let us know how it went!

Paul Bos Heat Treating at Buck Knives. Paul Bos has retired and handed the torch to Paul Farner. Highly reputable. Post Falls, Idaho:
http://www.buckknives.com/about-knives/heat-treating/

Peters Heat Treating is another highly reputable operation. Meadville, Pennsylvania:
http://www.petersheattreat.com/?s=cutlery

Texas Knifemaker's Supply offers heat treat services. Houston, Texas:
http://www.texasknife.com/vcom/privacy.php#services

Tru-Grit provides heat treat services. Ontario, California: https://trugrit.com/index.php?main_page=index&cPath=34

K&G also provides heat treat services but I can't find a reference on their web site – you'll have to contact them for details. Lakeside, Arizona:
http://www.knifeandgun.com/default.asp

Byington Blades heat treat service is in Santa Clara, California: http://www.byingtonblades.com/

Wood & Handle Material

Burl Source – handle blocks/scales – So. Oregon
http://burlsource.us/
https://www.facebook.com/BurlSource/

Shelton Pacific – stabilized wood – Shelton, WA
http://stores.sheltonpacific.com/

Gilmer Wood – N.W. Portland
https://www.gilmerwood.com/

Bamboo Oasis – wide variety of bamboo – Beaverton, OR phone 503-703-1345
https://bamboooasis.com/

North Woods Figured Wood – Gaston, OR
http://www.nwfiguredwoods.com/

Atlas Billiard Supplies – Wheeling, IL – cue blanks of Micarta and exotic woods – with some sizes suitable for knife handles. http://www.cuestik.com/

For Eugene area boards, planks, etc. there's:

Crosscut Hardwoods at 2344 W 7th, Eugene
http://www.crosscuteugene.com/

Tree Products Hardwoods at 150 Seneca, Eugene
http://treeproductshardwood.com/

Northwest Timber has larger pieces of figured wood. In Jefferson Oregon between Albany and Salem.
https://nwtimber.com/

and it doesn't hurt to check Mike's Bargain Center on Hwy 99 just south of Beltline, Eugene
https://www.facebook.com/MikesBargainCenter/

Wood Stabilizing

K&G (Knife and Gun) – Lakeside, AZ
Good reputation with everybody.
http://www.kandgstabilizing.com

Gallery Hardwoods – Eugene, OR
http://www.galleryhardwoods.com/stabilized.htm

WSSI (Wood Stabilizing Specialists International, Inc.) – Ionia, IA – some folks have had issues with them, some folks are totally happy.
http://www.stabilizedwood.com/

Alpha Knife Supply – Cedar City, UT
http://www.alphaknifesupply.com/

Turn Tex Woodworks – San Marcos, TX
"Cactus Juice" and pressure chambers etc. for the do-it-yourself folks.
https://www.turntex.com

Other Goodies

Grey Leather Company – Eugene – Hannah Morgan does custom leatherwork, including sheaths.
https://www.facebook.com/GreyLeatherCo/
https://www.etsy.com/shop/GreyLeatherCo

Sally Martin Mosaic Pins – So. Oregon
http://customknife.com/index.php?cPath=13

Oregon Leather – 810 Conger Eugene and 110 N.W. 2ND Portland
http://www.oregonleatherco.com/

Rio Grande – jewelry tools/supplies
http://www.riogrande.com

Otto Frei – jewelry tools/supplies
http://www.ottofrei.com

M3 Composite – space age mokume & other
http://www.m3composite.com/

Voodoo Resins – striking resin handle material
http://www.voodooresins.com/

The Engineering Toolbox (formula & info reference)
http://www.engineeringtoolbox.com

Valley Stainless (that does water-jet cutting) is one of Craig Morgan's customers. They told Craig "bring in a pattern" and they'd work with you on small batch cutting. They don't have a website yet. 29884 E Enid Rd, Eugene, Oregon 97402 (541) 686-4600.