

# EUGENE 5160 CLUB ~ SEPTEMBER 2021

<https://www.facebook.com/5160ClubTheGroup>

newsletter archive: <http://www.kempclan.com/5160Club/>



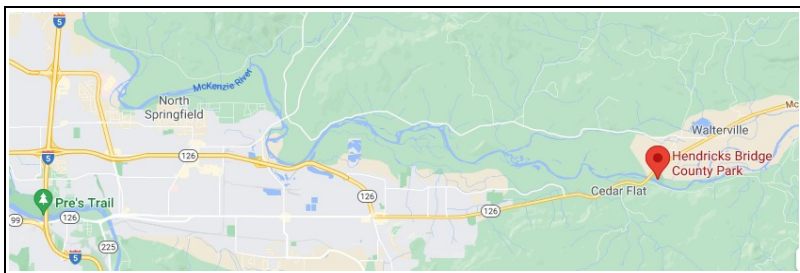
**5160 CLUB MEETING**  
**THURSDAY, SEPTEMBER 9<sup>TH</sup> – 6PM**  
**HENDRICKS BRIDGE PARK**

**CHANGE IN THE MEETING DATES!**  
**5160 CLUB WILL NOW MEET**  
**ON THE **SECOND THURSDAY.****

The September meeting will be at the open-air shelter at Hendricks Bridge Park – East of Springfield.

After this, the plan is to meet on odd numbered months at the Eugene Elks Lodge, and even numbered months at the Anvil Academy in Newberg, starting October 14<sup>th</sup>.

**Parking Fee At Hendricks Bridge Park:** A one-time day pass of \$5 can be purchased at the park. An annual parking pass for all Lane Co. parks can be purchased at Bi-Mart, Cabela's, REI, and a scattering of other stores. The annual cost is \$40, or \$20 for folks 62+ and for disabled veterans.



From I-5, take Hwy 126 East. At the stoplight on Main Street in Springfield, take a left to stay on 126. From that point it's around 5 miles to the park. Just over the bridge across the McKenzie River, take a right into the park. We will probably be in the shelter (the shelter is first-come-first-serve). See you there!

The Eugene 5160 Club newsletter is for information only. Do not try anything mentioned here without hands-on training. Neither the folks mentioned in the newsletters nor the newsletter scribe are responsible for your actions or liable for any repercussions. If you are good with that: read on!



## MY LAST NEWSLETTER

Your scribe, **Michael Kemp**, here. Todd Ellner has graciously agreed to take over the monthly communication for the Club, so while the move to the 2<sup>nd</sup> Thursday means that I will make it to the September meeting, this will be my last newsletter.

The 5160 Club is an awesome resource for both newbies and experienced knifemakers. It has been a pleasure and a privilege to be part of it. I've done what I can to make my exit a smooth transition.

Changes are in the works! See you on the 9<sup>th</sup>!



## A DOZEN YEARS IN ONE ZIP

I have “zipped up” all of the newsletters – from the ones Wayne did starting in 2009 through this one – plus the handful of “special articles” that have appeared over the years. The Zip file is available for download from the <https://kempclan.com/5160Club/> page and from <https://elementalforge.com/5160Club/>. The Elemental Forge website will be going away sometime in December, but Kempclan.com should be around for as long as I'm around. Another couple of decades, if my luck holds.



## AUGUST MEETING



**Mike Johnston** was first up, noting that he's been traveling between home, Texas, and Alaska. But Mike still managed some shop time to fill orders and play around! His first pass-around was a blade blank in 1095, exploring a new profile.



“And I've been making a lot of cable Damascus...” from 1-3/8” swaged cable. This cable starts out at 1-1/2” or 1-5/8” and is pressed down to size “which makes it real nice to work with.” Mike gets his from a guy he knows who owns a cable company, and gives him all the drops and ends he wants.

To remove the grease from the cable Mike sets them in a kerosene bath for three months. That's a heck of a lot less work than untwisting the cable and burning the grease out. Besides, how would you untwist swaged cable? And he uses borax flux when forging. His purpose-built forced air welding forge comes up to heat fast, and sits at about 2,320°f. He runs the mixture rich to virtually eliminate scaling.

So of course, Mike's been going to town with his helve hammer! “I have ten 14”x2” billets sitting in the shop... I can get ten of them done in three and a half hours.”

Mike passed around an EDC sized knife made from the remnant of a billet that he used for a



larger knife. He noted that these cables have larger strands than smaller cables he's used in the past, giving a bolder pattern.



Next was an order for a large kitchen knife (breaking knife), which he made out of Dodge coil spring. The customer wanted it thin and flexible. He tempered it back to about 58 HRc. “I do three normalizing cycles, then quench it in 120°f canola oil [from an austenitizing temp in the 1540-1580°f range], and then three temper cycles. This was at 395°f... I haven't had warpage since I started doing the three normalizings.”



In response to a question Mike noted that the Dodge coil spring acts like 5160. Easy to heat treat and keeps a good edge. “It was fun forging that out, that thin!”

Mike's final pass-around was a beautiful, large Bowie. 150 layer 1080/15N20 Damascus, with two twists. The resulting pattern reminds him of currents and eddies in a stream. The guard is copper. Thuya burl handle with black and copper spacers. Three mosaic pins from Sally Martin. Copper butt cap. Finished with 30 coats of Tru-Oil.

Mike said that the 1080 is spring-tooth harrow tines from an old farmer friend. Also he really likes the Thuya burl, “except that it gets an overpoweringly strong smell when you take your respirator off...” Even the finished handle still has scent. Thuya is in the same genus as Arborvitae. This Thuya burl came from Morocco.

As for the button on his sheath [not photographed, my bad], Mike could not find a supplier for the mushroom shaped button that he prefers. And he wanted to match the copper hardware on the guard and handle. So he cut a bit of his 1/4" copper plate and manufactured the button from that.



**Trystan Nguyen** came forward next. First up was a katana (not what he's holding in this photo)! He noted that, as opposed to his turn at Forged In Fire where everything was rushed, he wanted to take his time making this one. It is 80 to 120 layer 1084/15N20 Damascus. The fittings are copper. The habaki (ferrule) is forged. The tsuba (guard) is cast.

The other fittings were made out of plate that was shaped and soldered. The tsuka (handle) is ray skin over walnut. The saya (sheath) is walnut with a bit of purple heart.

cavity in the saya with everything from chisels to router planes to motorized routers to Dremel to Foredom to RotoZip!

Moving right along, Trystan noted that the snakeskin on the sheath of his next knife was something he recovered from roadkill! He made the Damascus billet for the blade on a press he purchased. He had made a press from a log splitter, but that didn't work to his satisfaction. As he has transitioned to full time smithing, having the right tools makes the work more efficient.



The blade is an "explosion" pattern Damascus. He described the process for making this pattern (starting with 20 layers), but he soon lost me. Trystan did say that when he does this again, he will go for a larger, bolder version of the pattern. The handle is

bloodwood and maple burl.

There was quite a bit of discussion about getting premium stabilized wood from Gallery

Hardwood (Larry Davis) in the Eugene/Springfield area. Also for excellent untreated wood there is Gilmer Wood in Portland.

Trystan's next pass-around had a spalted tiger maple handle. The blade is a combination of 20 layer Damascus in a snake pattern from random pattern, manipulated and forge-welded for the final pattern.



There was discussion about methods for routing the



Trystan had an issue with shipping a knife in cardboard, where the blade poked out. So he's bought himself a laser cutter and custom cuts his shipping boxes out of plywood. Problem solved.

His next pass-around has a bollock dagger. The handle is spalted maple.



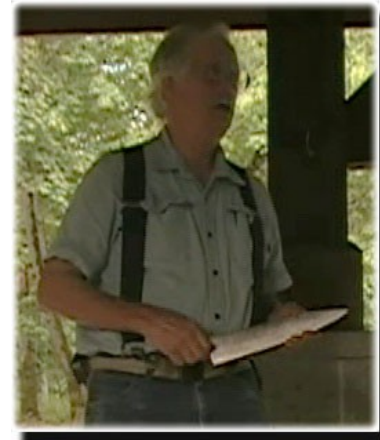
The katana wasn't the only sword Trystan brought! This European style sword weighs 18oz overall. Fullered down the blade. 120 layer Damascus. The guard was cast from a collection of waxes. The handle is walnut with some sapwood accent plus purple heart. The sheath is lined with deer skin, hair side in so the blade will glide smoothly in the sheath.



**Tyler Aldrich** was up next. His pass-around knife was in explosion Damascus, starting with 16 layers. He's working on his pattern control, keeping the pattern from stretching or distorting during the process of forming the blade. This is his first time with this style bolster, heirloom style fit (smoothed edges on the handle), domed pins. Dark stabilized maple from Gallery Hardwoods.



**Martin Brandt** came to the front with a large blade made from the industrial bandsaw steel that Dennis Ellingsen supplied the group with some time ago.



Martin based the design on an old Goodwill find. That blade turned out to be a perfect blackberry and poison oak slayer. Thin, long, and sharp. He also found it works well when his job calls for cutting through big rolls of pool cover plastic that has outlived its usefulness.

After years of outdoor use and abuse he thought "I wish I hadn't turned it into a rusty old junker for the woods, 'cause I'd like to try that in the kitchen – with a nice thin blade like this!" So it was time to make a copy of it.

He normalized it three times, quenched it in Park's

50, pulled it out hot and clamped it between metal blocks, and it still came out a little warped. He used a body-and-fender hammer to peen it straight, then sanded down the hammer marks.



Mike Johnston noted that every piece of industrial bandsaw steel that he's used has a bit of a curve in the down-the-blade direction (it is, after all, a band). He noted that Wayne Goddard advised to heat up the section you want to make a knife out of, and rub it over the horn of your anvil to take the curve out of it.

Martin followed up with putting the edge in a wet sand tray and used a torch to do a soft-back draw. You can shape the sand to match the curve of the blade, and capillary action will keep the sand wet and the blade edge cool. That way you can get a tough spine and keep the hardened edge.



**Edward Davis** said “I wanted to make something knife-related” for our meeting – but he hasn't made any knives recently. On the other hand, when they travel and stay where there's a kitchen, the cutlery is never sharp. “Part of me said I could bring my sharpening stuff and sharpen their blades, but that's dangerous because I'd

leave sharp knives and all the people after me would cut themselves!”

So he'd made a small knife roll (aka chef roll) to hold a selection of just three of their own knives to take with them. He noted that his new leather sewing machine made the process pretty fast. “Whereas stitching by hand it would have taken many many hours, the whole process of designing and making this knife roll took one hour.” Edward said that anyone wanted a knife roll this size he would charge \$20, and scale the price up if you wanted a larger knife roll.



This is made from 3-4 oz red oil-tanned leather from Tandy. This was remnant from a purse project for his daughter. The knife roll has the brand from the hide – which Edward likes to incorporate in his work rather than discard. He noted that while most cows are ear-tagged, some hides still show brand signs (possibly from cows raised outside the U.S.).

**Care (sp?)** got up next. “I made this back at North Eugene High School, in between visits from the principle and other faculty...” He taught himself knife making from a book. The antler was something he'd had for some time, which found its purpose as the handle for this knife. “I ended up doing this in an almost Anglo-Saxon design and really loving it.” In retrospect he would change a few things, but he's pretty happy with it. He likes the brute-de-forge look on this blade. *[Somehow I did not get a photo of the blade. My apologies.]*



He's been working with a gas forge and is concerned about the amount of fire scale. There was good discussion about how to gauge whether your propane forge is running lean (too much air, which creates scale) or rich (heavy on the propane, less scale).

What you are looking for is having some soft rolling flame appearing outside the forge door, meaning that you have a rich enough mixture that not all the propane is being burned inside the forge. That's why propane forges are sometimes called dragon's breath forges. If there is a lot of flame coming out plus black smoke, that means it's richer than it needs to be and you are just wasting propane. There was also discussion about simple burner design. Atmospheric

(venturi effect) and forced air (with a blower) were also discussed.

I believe it was Erik Land that gave the excellent advice, to spend a few hours with an experienced smith, learning how they manage their forge. "It's well worth the dozen donuts you'll bring, or the six pack of beer!" There's nothing like direct observation of someone who knows what they're doing.

As the meeting broke up, Lynn Moore invited everyone to come over to his place (a couple of blocks from the park) to see his shop. Almost everyone took him up on it!

Keep well, work safe, and see you on the 9<sup>th</sup>!

Your Exiting 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.kempclan.com/5160Club/>

### OREGON KNIFE COLLECTORS ASSOCIATION (OKCA)

The OKCA is putting out their newsletter, but the monthly dinner meetings and the knife shows are COVID canceled for the time being. We are all hoping that their big knife show in April might happen in 2022 – sign up for their newsletter to stay in the loop:

<http://www.oregonknifeclub.org/index.html>

Go to the "Knewsletter" 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 Network  
<http://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](mailto: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](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.heatreaters&hl=en>

## **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](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.broadbeckironworks.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](http://www.twuertz.com/Home_Page.php)

Grinder-In-A-Box – grinder kit, assembly required  
[http://www.polarbearforge.com/grinder\\_kit\\_order.html](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](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 Gropitch – 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](http://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 Farnar. 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](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**

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

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/>

Crosscut Hardwoods at 2344 W 7<sup>th</sup>, 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.