March Meeting

The 5160 Club will meet at Woodcraft of Eugene (Delta Oaks – Beltline & Delta Hwy) March 6th at 6:00 pm. There’ll be show & tell & pass-arounds. I’ll bring my 1st random pattern (small) knife. Maybe Mike Johnston will show up with the blades that he clayed at the January meeting so we could see the resulting hamons. Bring your show-and-tell too!

February Meeting

Um. We had this little “weather issue” that kept me from making the February meeting. In fact I don’t know if anybody got there... so this will be a catch-up newsletter. And yah. Danita’s car was totaled.

April OKCA Show

Table change: Wayne called me a few weeks ago to let me know that OKCA has shuffled some tables around – so this year we’ll be at table M-10 on the same row as Dragonfly Forge and straight across the isle from the traditional Goddard table.

Here are some updates and catch-up items:

Mike Johnston highlighted the health concerns about acetone (see the last newsletter http://www.elementalforge.com/5160Club/201402Newsletter.pdf). Mike recommended denatured alcohol as an alternative.

Since (for me) acetone cleans better than denatured alcohol, everclear, or isopropyl alcohol, I'm curious to hear other options that are less toxic than acetone but just as aggressive. Keith Johnson is looking at a citrus oil alternative. Maybe we'll hear about it at the meeting?

John Emmerling sent a couple of photos of a grinding jig he uses:
John also sent some samples of wood he's homestabilizes in this solution:
http://www.conservationsupportsystems.com/product/show/acryloid-
paraloid-b-72/acryloid
using a paint pressure pot from Harbor Freigh and
an auto vacuum pump. He cycles the vacuum several
times a day over 3 days – then lets it air dry for
several days. Definitely less “plastic” than most
stabilized wood.

Emmerling's Damascus Etch

Here are John's notes on getting the most from
etching pattern-welded blades. Thanks John, for
sharing your hard-won experience:

First, and foremost, sand and polish all visible
scratches out - going to a near mirror finish. Never
mind that the big boys say to not polish the blade
before etching. Get the the scratches out as they will
depen with the etch, after which you'll have to start
over if you don't like the looks of a 'muddy' blade.

Second, go to the auto parts store and buy battery
acid. Mix it with distilled water 1:1 in a plastic
container that can be sealed after use.

Third, go on line and buy good etchant, not the Radio
Shack stuff. http://www.micromark.com/FERRIC-CHLORIDE-
ETCHANT-16-OZ,8350.html - 1/2 price of RS and better
stuff. Mix this 8oz/gal of distilled water, again, in a
resealable container.

After sanding/polishing/cleaning the gunk off from
polishing (I use lacquer thinner), scrub the blade with
scouring powder and rinse well. Place in the acid for
approx 20-30 mins and clean occasionally with a 3M
pad. You won't see too much change, but the acid
cleans and seems to provide a 'toothy' base for the
ferric chloride.

The last step is to clean and immerse in the ferric
solution for whatever time you deem it etched.
Sometime during the etch, I like to lightly sand with
a piece of 600-1200 grit sandpaper to bring up fresh
steel, but not enough grit to scratch the blade.

Both the acid and the ferric solutions are fairly dilute,
so the immersion times can be long and you will have
a good amount of control.

In the end, rinse and scrub/neutralize the blade with
lemon scented ammonia and/or baking soda on a
spone. You should get a clean and highlighted
finished blade with good contrast depending on what
blade materials are used. I normally use 1095/L6/
5160 as I like seeing 3 distinct colors in the blade.

After drying, I like to lightly rub the high spots with
some crocus paper or 3000 grit sandpaper, then buff
on the clean buffer. A coating of Renaissance wax is
the finish.

I've struggled with etching for a long time and this is
the best formula I've come up with to date.

John

Free De-Classifieds

(in no particular order)

Email me a brief description of what you are selling/buying/
looking for with your preferred contact (phone/email/...). Unless
you let me know you want a shorter run, I'll run the note for 3
months and then send you an email to see if it's still valid.

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For Sale: I have a TW90 grinder with all the goodies:
surface grinder, 8" and 10", 70 Duro wheels, small wheel
attachment with most sizes, 3 work platforms, and 10"
platen. It's wired for 110 but can be 220. According to
Travis Wuertz I should be asking $5,000.00 given that
there is right at $6,000.00 invested - and it would take 90
days lead time from the time you pay for a new one plus
$300.00 for shipping. So $5,000.00 seems fair to me. It's
almost new. I have only made a few knives with it! contact
Ben Davis 1-541-423-5216 – located in Central Point, OR.

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Knife Maker Wanted: Mike Lummio of Bushcraft
Northwest is looking for a new knife maker that is familiar
with scandi grinds and bushcraft knives. If you are
interested, contact Mike at www.bushcraftnorthwest.com
(360) 606-1036.
**WEBSITE LINKS**

**5160 Club**

5160 Club Newsletters are archived at: [http://www.elementalforge.com/5160Club/](http://www.elementalforge.com/5160Club/)

Hint: to Google the archive for a specific knife style or presenter name, use a search like this: 
**sami** site:[http://www.elementalforge.com/5160Club](http://www.elementalforge.com/5160Club)

or this:
**ron lake** site:[http://www.elementalforge.com/5160Club](http://www.elementalforge.com/5160Club)

**FORUMS**

Knifedog Forum

Bladesmith's Forum aka Don Fogg Forum

American Bladesmith Society

Usual Suspects Network

Blade Forums

**REFERENCES**

Many of the sites linked under “Knife Maker General” have book & video sections. Our own Wayne Goddard’s books are available at Amazon: [http://www.amazon.com/Wayne-Goddard/e/B001JS9M10](http://www.amazon.com/Wayne-Goddard/e/B001JS9M10)  
And you can email Wayne directly for his DVD at wgoddard44@comcast.net

Here’s a few other useful references:

Verhoeven's Metallurgy For Bladesmiths PDF  
[http://www.feine-klingen.de/PDFs/verhoeven.pdf](http://www.feine-klingen.de/PDFs/verhoeven.pdf)

ZKnives – Knife steel composition/comparison/etc.  

Kevin Cashen's Bladesmithing Info  

Tempil Basic Guide to Ferrous Metallurgy  

**GENERAL TOOLS & SUPPLIES**

Woodcraft Eugene – special thanks to Joe & the crew! 1052 Green Acres Rd Eugene, OR 97408  
(Delta Oaks Shopping Center) 541 685-0677  

MSC Direct  

McMaster-Carr  
[http://www.mcmaster.com](http://www.mcmaster.com)

Grainger  
[http://www.grainger.com](http://www.grainger.com)

Surplus Center  

Victor Machinery Exchange  

**OREGON KNIFE MAKING CLASSES**

Gene Martin offers personal instruction at his shop south of Grants Pass for a daily rate.  

Michael and Gabriel Bell offer a constant series of small group classes in Japanese style sword forging and fittings. Located on the southern Oregon Coast.  
Murray Carter offers small group classes in a variety of subjects, primarily focused on traditional Japanese cutlery. Located in Hillsboro.
http://www.cartercutlery.com/bladesmithing-courses/

**Knife Maker General**

Knife kits, steel, tools, machines, supplies such as handle material, fasteners, belts, glues, finishes, etc.

Jantz Supply
http://www.knifemaking.com

Texas Knifemaker's Supply
http://www.texasknife.com

USA Knife Maker's Supply
http://www.usaknifemaker.com/

Knife and Gun (K&G)
http://www.knifeandgun.com/

Alpha Knife Supply
http://www.alphaknifesupply.com/

**Knife Steel Sources**

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

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

SB Specialty Metals
http://sb-specialty-metals.com/products/knifesteels

Bohler Uddeholm
http://www.bucorp.com/knives.htm

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

**Forge & Refractory**

Chile Forge
http://www.chileforge.com/

Mankel Forge
http://mankelforge.com/forges.html

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

Omega – thermocouples & measuring equipment
http://www.omega.com/

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

**2x72 Belt Grinders**

Beaumont (KMG) – the industry standard
http://www.beaumontmetalworks.com/shop/

Travis Wuertz – premium brand

Pheer – affordable, satisfied customers on the forums
http://www.2x72beltgrinder.com

Coote – affordable, reliable – you supply the motor
http://www.cootebeltgrinder.com

Grinder-In-A-Box – low cost – assembly required
http://www.polarbearforge.com/grinder_kit.html

Wayne Coe – grinders, motors, VFDs, etc.
http://www.waynecoeartistblacksmith.com

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

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

True Grit – grinder belts
http://www.trugrit.com
Hybridburners – home of the venturi T-Rex
http://www.hybridburners.com/

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

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

**BLACKSMITH**

Blacksmith Depot
http://www.blacksmithsdepot.com

Pieh Tool
http://www.piehtoolco.com

Centaur Forge
http://www.centaurforge.com

**LOGO/ETCHING**

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

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

**OTHER GOODIES**

Sally Martin Mosaic Pins – So. Oregon

Burl Source – handle blocks/scales – So. Oregon
http://www.burlsales.com/

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

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

Coyote Steel – misc., scrap, copper, brass, bronze – Garfield & Cross St. Eugene
http://www.coyotesteel.com

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

Amtek – tool steel & cutting tools
http://websales.amtektool.com

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

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

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Keep well – wear your safety gear – and have fun!

Your Scribe

~ ~ ~ Michael Kemp

p.s. Now I'm gonna grab some scrap steel and get some practice using my new toy!

And yah – everything around here does have kind of a green tint to it. If moss don't grow on it, algae will – including those posts and beams.

Even my hat.

M.