

CLINKER



BREAKER

Florida Artist Blacksmith Association

Established May 18, 1985

PRESIDENT'S MESSAGE

New board member and new website installed

June has arrived, and we'll mark the official start of Summer on the 20th. With that, temps will be rising, and we won't have to burn as much fuel getting our metal up to forging temperatures.

Enough of my stupid humor. We held our Q2 Board Meeting a few weeks ago, and the biggest news is that we have officially welcomed Erin Harlow as our newest Board Member and Program Chairperson. We look forward to working with her on planning our next conference. We



Mark Stone

have purchased first aid kits for our FABA trailers to have on-hand should the need arise. I have received a few lists of regular meeting attendees and have made name tags for those so you should be receiving those in the near future at your monthly meeting.

David Sandlin has stepped up to assist with the duties of keeping up with membership. With switching from Wild Apricot for our membership tracking, you will need to disable your automatic payment feature in PayPal if you have that feature enabled. See the note at right and also a message from our Treasurer, Doug Hayes, on the following page.

Our website is up but also still under construction. You can get a glimpse of what has been done and what is to come. Feel free to look it over and report any typos, etc. All links are not active yet but progress is being made. You can renew your memberships through the website but let us know if you experience any issues with that.

Please take pictures of your touchmark(s) and send them to me at president@blacksmithing.org.

FABA MEMBERS,
YOU MUST manually go in and **disable your automatic payment feature in PayPal** as soon as you can. PLEASE!
FABA cannot stop your auto-payments and you must do so. See the Treasurer note on page 2 for more info.



Wolfe Forge touchmark, submitted by Jerry Wolfe

Or, if you would like to send me a sample of your touchmark stamped in a small piece steel sheet, e-mail me at the aforementioned address and I will send you my mailing address.

I have posted the few I have received on the FABA Facebook page and have also sent to Jessica Sandlin to add to our website.

Happy Father's Day! Keep your forges glowing and your hammers pounding. Always remember safety glasses, hearing protection and with the warmer temperatures, stay hydrated.

Mark Stone

FABA Treasurer Notice

FABA Members,

Many of you are aware that our previous membership program, Wild Apricot, had problems in communicating with PayPal. This, plus other issues meant that Wild Apricot would send you renewal notices at a different time of year than PayPal did. So, some folks would contact me to ask why but others would just do another renewal. When I caught this, I contacted the member and/or extended their renewal to account for the extra payment. However, for those who set up Automatic Payments / Recurring Payments on their PAYPAL Account, PayPal has continued to send payments. I AM NOT able to disable those payments from PayPal. I was able to stop the system from sending you automatic renewal notices last month, but I cannot stop PayPal from withdrawing money from your account. YOU have to go into your personal account and go to recurring payments and STOP them. PLEASE, please do this. I am working to get this all squared away and back into a smoothly working system and hopefully one that will allow those of you who prefer PayPal to other online payments to resume using PayPal. But for now, please disable your current recurring payments to FABA. I thank you for your support for and commitment to FABA and am working hard to try and get a system in place with no (or at least minimal) glitches and will keep you up to date on my progress. Thanks for your patience and understanding.

— Doug Hayes, FABA Treasurer



Florida Artist Blacksmith Association (FABA)

is a not-for-profit organization chartered with the State of Florida and is dedicated to promoting and expanding the horizons of architectural, artistic and practical blacksmithing while preserving the rich heritage of this craft. FABA Officers and members assume no responsibility or liability for injuries or damage caused as a result of the use of any information, materials, design, techniques, etc. contained in this newsletter, our website, <http://www.blacksmithing.org>, our Facebook Page or provided at meetings or demonstrations.

Contributions to FABA are tax-deductible to the extent provided by law. FABA publishes the Florida Clinker Breaker monthly and FABA membership includes a subscription. We solicit correspondence and unpaid articles on any subjects related to FABA's purposes. Send to editor@blacksmithing.org. Materials submitted must be your own work, and citations of others must be clearly identified. By submitting materials, you are allowing FABA to edit, print and post them to FABA's website. ABANA Chapter newsletters may reprint non-copyrighted material, if it is credited to the author and this newsletter. You need the publisher's permission to reprint copyrighted material unless otherwise noted.

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Calendar of Events

The calendar includes events of interest to the blacksmithing community. The regions have no boundaries – everyone is welcome everywhere. Come to more than one if you can.

We hold regular meetings in each region on the following Saturdays of each month: NE-1st, NW-2nd, SE-3rd, Far West and SW-4th. The actual dates vary, so check the schedule noted in the regional reports.

Our meetings are informal gatherings around the forge. Prospective members are always welcome. Come for all or any part of a meeting, bring your tools or just watch.

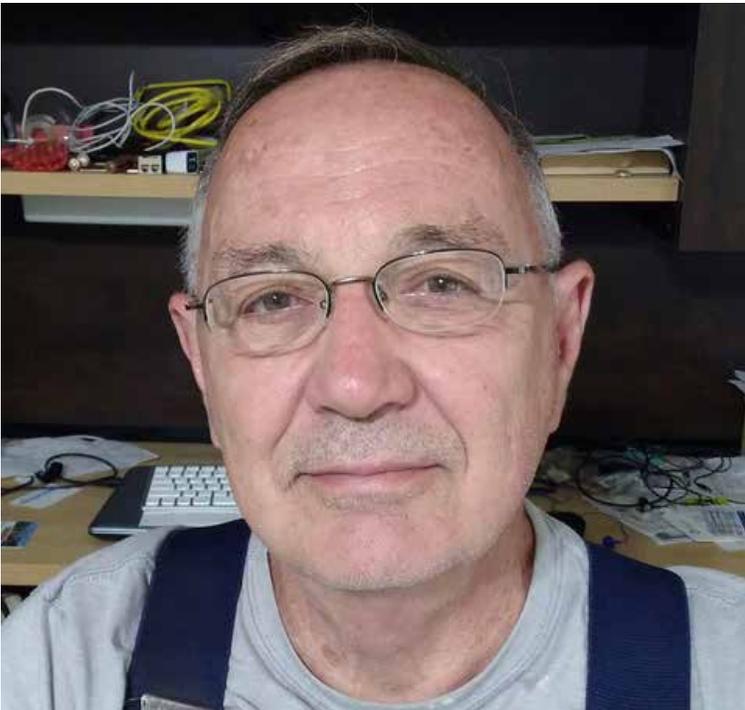
Most meetings run from 9 a.m. to 4 p.m., and you'll want to bring a bag lunch if not otherwise noted. If you have any questions about meetings or events, please contact the Regional Coordinators:

Central Northeast Region	Heinrich Hole	386-848-6982	heinrich.faba@gmail.com
North Northeast Region	vacant	for questions, please email	djhayes29@hotmail.com
Northwest Region	John Pfund	850-528-3280	johnwpfund@aol.com
Southeast Region	Peter Hill	651-635-6022	blazeblades561@gmail.com
Southwest Region	Antony Fenn	617-320-4781	antony.fenn@gmail.com
Far West Region	Dave Sandlin	850-974-1548	david@traditionsworkshop.com

Member Spotlight

FABA NW Region member: Kenneth Weldon

I'm Kenneth Weldon, a 73-year-old retired Civil Engineer in Waukeelah, Fl. Clyde Payton exposed me to blacksmithing 2 years ago. I've made a dozen items, including tools.



SW Region Meeting Report

We had a great turnout at our first meeting this year.

We pulled all the contents out of the neglected blacksmith shop at Crowley Museum near Sarasota. We then sorted out the mess into usable tools and fixtures, pieces for decorative wall hangings and trash to be discarded.

Trez Cole had fabricated a new forge hood, which was installed after first removing the old rusted one. The existing hand cranked blower was then reattached to the forge. The floor was then raked and leveled and the anvil, leg vice and swage block put in place.

We fired up the forge and some members made hooks to hang up the decorative pieces.

Thank you to all members who turned out and worked. We now have a fine functioning shop available to FABA SW to hold future meetings.

**— Tony Fenn,
SW Regional Coordinator**





SW Region Meeting, June 26

The June SW meeting will be held on Saturday, June 26th, at Sea Horse Forge with hosts Jerry and Mary Sandifer in Palmetto, south of Tampa. We have not yet determined the demonstration, but there will be one.

Please check the FABA SW Facebook page at www.facebook.com/groups/228279738123674 for more details.

Please bring something for Iron in the Hat. At this meeting, Jerry and Mary will generously provide food and drink.

The meeting will start at 10 a.m. on Saturday, June 26, at [1808 8th St. W, Palmetto, FL](http://18088thst.com).

Telephone: 941-713-1613

Email: seahorseforge@gmail.com

DIRECTIONS FROM I-75: Take exit #224 to US-301 South, to 10th St W. in Palmetto.

Continue on 10th St W.

Turn left onto 18th Ave W.

Turn right at the 2nd cross street onto 8th St W.

SW Region Meeting, May 22

The May SW meeting will be held on Saturday May 22nd at Crowley Museum and Nature Center just east of Sarasota. We will light up the forge in the restored museum blacksmiths shop, and Trez Cole will demonstrate how to make leaves.

For those who want to forge, we will take turns making leaves. You can either follow Trez's method, or design and make one of your own. At the end of the day the leaves will be collected to be sent to FABA President Mark Stone as a contribution towards the future SBA Auction Project.

The meeting will start at 10 a.m. on the Saturday. Be ready to join in and swing a hammer. Please bring safety eye wear and dress appropriately.

Please bring something for Iron in the Hat, and a food or drink item to share.

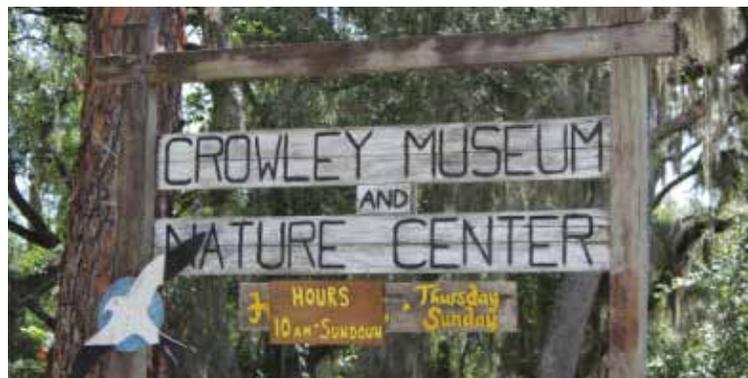
Crowley Museum and Nature Center

<https://crowleyfl.org>

Address: [16405 Myakka Road, Sarasota, FL 34240](http://16405MyakkaRoad.com)

Telephone : (941) 322-1000

— Tony Fenn, SW Regional Coordinator



DIRECTIONS: I-75 from the south or west

Take exit #210 Fruitville Road and drive EAST 10 miles to the dead end. Turn RIGHT on Myakka road. Go 3 miles, Crowley is on your LEFT shown by a large wooden sign. If you travel over the bridge to the north entrance of Myakka State Park, you missed by a mile :).

DIRECTIONS: Route #70

FROM NORTH OR WEST: Take I-75 to route #70, exit #217B, travel to Verna Road. Turn RIGHT and travel SOUTH for approximately 6 miles to the Crowley entrance on your left.

EAST: Take Hwy #70 to Verna Road. Turn LEFT. Travel approximately 6 miles to Crowley entrance on your LEFT.

Far West Region Report

Friday was a blustery day, and the blustery day turned into a blustery night that grew into a stormy night and the stormy night gave way to heavy rain, tornado warnings and winds strong enough to blow our tents and other equipment into the next county. With apologies to A.A. Milne, the Far West region is sad to report we cancelled our April 24th meeting due to weather.

The forges may have been cold on April 24th, but that does not mean that members of the Far West were idle this past month.

At Traditions Workshop Christopher took delivery of a small scale CNC plasma cutter – be on the lookout for some interesting projects in the near future that will combine this technology with the ages old craft of blacksmithing.

With the help of Bruce, he also finished restoration on a 1908 Southbend metal cutting lathe that is now ready for service in the workshop. It may be over a century old but it still works great!



Looking great after 100+ years. I hope I look this good when I'm that old!

Also, over the last month, in preparation for his bronze casting demonstration/class to be held at our conference in October, Christopher Sandlin made the blanks for the green sand casting of a full-size Xiphos and for a mini Xiphos.

The current plan is to cast a bronze full size sword on Saturday and finish it in time for the auction on Saturday night. Then on Sunday morning, Chris plans to offer a casting class for up to 8 participants, each making a mini Xiphos. Look for this class, along with others when the conference sign-up goes live later this summer.



A wooden model of a full-size Xiphos (above) and a cast aluminum mini Xiphos (below)



Additionally we are looking for other demonstrators to participate under the FABBA demonstrator's tent where we will be showcasing our own Florida talent.

The schedule for this tent currently stands as follows:

Thursday all day - set up

Friday AM (8 a.m.-noon) OPEN

Friday PM (1-5 p.m.) Lost Wax Casting demonstration

Saturday AM (8 a.m.-noon) green sand casting of the Xiphos

Saturday PM (1-5 p.m.) OPEN with the occasional cut away to progress reports on the Xiphos

Sunday AM (8 a.m.-noon) green sand casting class, making an aluminum mini Xiphos followed by tear-down starting around 1 p.m.

If you want to demonstrate an aspect of the blacksmithing and related craft under this tent, please send an email to david@traditionsworkshop.com.

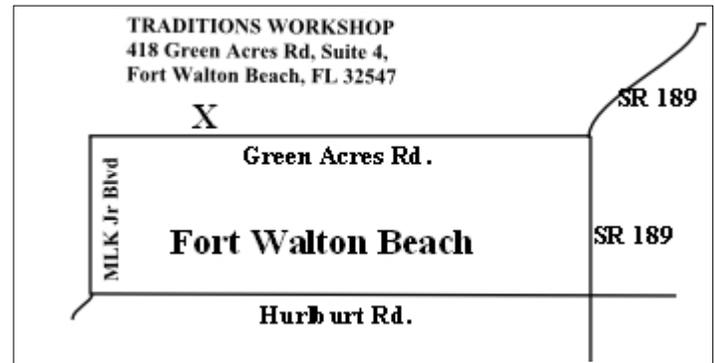
The open times can be broken into smaller segments to accommodate shorter demonstrations as desired. Under this tent, you will have access to coal or gas forges, anvils, general tooling, 2x72 belt sander, and a power hammer. If you need something more specific for your demonstration please let David know in your email.

The final part of the Far West report is a picture of a folded iron cross and large nail made by James Kirk on Good Friday 2021.

— David Sandlin, Far West Coordinator



Far West Meeting, June 26



In the Far West, we are looking forward to our next planned meeting on May 22, 9 a.m.-2 p.m. Billy Hay will host the meeting at [Traditions Workshop, 418 Green Acres Road, Fort Walton Beach, FL 32547](#).

Normally David and Christopher Sandlin host when meetings are held at Traditions, but they have been called off for a funeral in Europe and will be out of the country. Billy (with Jennifer Hay in support) promises an interesting demonstration, a great lunch and plenty of open forge time.

David and Christopher will be back for the June 26 meeting with a report from “the Rusty Forge” in Sweden. That meeting will also be at Traditions Workshop in Fort Walton Beach from 9 a.m. to 2 p.m.



David Sandlin at The Rusty Forge in Summer 2019. The dirt box forge is in the background, the anvil is a 35-pound stake anvil, and the project is a hook in progress, which goes to show you don't need much to get going in blacksmithing.

Central NE Report

We did it again with 30 people at the May meeting, and boy, was it a blast!

All fires were lit and being worked for the benefit of our amazing community as we finalized tongs to be used for conference classes.

We also had a very special item donated to our region's Iron in the Hat: a rose made by Jerry Grice, one of FABAs main founding members, was donated by his son for the benefit of our group.

Thank you very much, Keith Grice. That was a piece of FABA history right there, and I for one am extremely grateful for the gift.

Another thank you goes out to Albert Rasch. He very kindly donated the main meal and a lot of basic necessities for the meeting.

So many people are actively helping out now and bringing all sorts of contributions that are far too numerous to name individually, so I thank you all!

— Heinrich Hole, Central NE Coordinator

Central NE Meeting, June 5

Our next meeting will start at 9 a.m. at the [Pioneer Settlement, 1776 Light-foot Lane, in Barberville.](#)

This is going to be an open forges meeting. That means there will be no primary demonstration.

The whole point of this meeting is going to be getting you guys into the fire and working on your own projects and ideas. I and several other smiths will be there to help projects along, so if there's something you're interested in working on and would like the equipment to do it or advice, then please bring it along with you.

Some basic supplies will be available so if you don't have any metal stock, but just want to get in the fire, then head on over here, and we'll make it happen.

We'll also have a potluck meal, so go ahead and bring your favorite meal and share it with the group.

I look forward to seeing you all there! ;)

IMPORTANT NOTICE :

Our parking is changing. We have exceeded the space given to us to park (Oh, YEAH) so now we are going to be

parking in the Bolin Lot, just two gates down from where we normally pull in. Our region is going to need to make a sign to mark this parking lot as ours, so guess what we'll be doing in one of our meetings!

I would also like to mention a couple other things: While it is free to attend a FABA meeting at the Pioneer Settlement, it does not get you access to their main property. It would be respectful and show gratitude to the Settlement to purchase a daily entry to the park if you are interested in checking out the other amazing things on the property.

Coal that is being purchased at the Settlement needs to be ordered 24-48 hours ahead of time. They are severely short-staffed now and are not able to produce bags ahead of time. I wonder if maybe we could offer to pack some bags for them as a donation of our time, just a thought. We do have cause to be grateful to the Settlement for all of the wonderful benefits we enjoy on their property, and that would be a cool way to show it.

NW Region Meeting Report

The northwest regional May meeting was held at Aunt Louise's Farm, just north of Waukeena. It was a real nice day with a slight breeze and pleasant temperature. The agenda was open forges with individuals working on their projects. Some less experienced members received help from the old-timers. Everyone completed a project and had a good time. The Iron in the Hat collected \$99 with 19 members signing in. Lunch was open with everyone fend-ing for themselves. Some ate at Aunt Louise's farm, some went to Monticello, and some simply went home.

— Ron Childers and Roger Bell

NW Region Meeting, June 12

The North West region will hold our June meeting at the residence of Craig and Marcia Hines. Their address is [6340 Maddox Road, Ochlocknee, Ga. 31773](#). Craig's phone number is 229-574-5278. The meeting will be held on Saturday, June 12th.

Craig is going to give us a demonstration of his choosing. Last year was a herb chopper and pizza cutter combo, with a guide sheet handout. He said he hasn't decided what to do yet, so give him a call if you have a request!

For lunch we'll have hamburgers and hot dogs on the grill. So bring sides and desserts to go with them. We'll have the Iron in the Hat raffle Right before lunch, so don't forget to bring something to donate. Hope to see you there!

— John Pfund, NW Coordinator



FLORIDA ARTIST BLACKSMITH ASSOCIATION

Keeping the art of blacksmithing alive throughout Florida

-  Join FABA
-  Clinker Breaker
-  Events
-  Conference
-  Affiliates

WHO WE ARE

We're a group of people dedicated to keeping the art of blacksmithing alive in Florida.

[READ MORE](#)



FIND YOUR LOCAL REGION

We're broken up into six regions: Central Northeast, North Northeast, Northwest, Southeast, Southwest, and Far West. Contact the regional coordinator closest to you to get started!

[READ MORE](#)

Our Regions



Central Northeast

Blacksmiths are invited to the heart of the north.

Location: Jacksonville
 Phone: 904-884-8100
 Email: central@blacksmithing.org

[READ MORE](#)

North Northeast

Blacksmiths are invited to the heart of the north.

[READ MORE](#)



Our Regional Coordinators



Heinrich Hole

Northwest Regional Coordinator



Position Open

Central/Southeast Regional Coordinator



John Pfund

Northwest Regional Coordinator



Peter Hill

Southwest Regional Coordinator



Anthony Fenn

Southwest Regional Coordinator



David Sandlin

Far West Regional Coordinator

Open Forges

Looking for an open forge at your area? You can contact the closest regional coordinator or click the link below for a list of our associated blacksmiths with forges.

[Find A Forge!](#)

Have you seen our new website?

Find your FABA region, meet the Regional Coordinators, read past Clinker Breaker newsletters, and more on the new and improved FABA website, blacksmithing.org.

While we are still putting the finishing touches on the site, we encourage you to explore all it has to offer, including links to membership, upcoming events, conference news and affiliates.

You can also link to all of the regional Facebook groups (from the Regions page) for meeting photos and videos, announcements, and more!

If you have photographs or information to share on the new website, please contact fabawebmaster@gmail.com.

A Broad Overview of Heat Treating

Heat treating is a multi-step operation, though not every step is necessary for every heat treatment. The four steps of heat treatment are:

- Annealing
- Normalizing
- Hardening
- Tempering

ANNEALING – heating to just above 'critical', or phase change temperature, the point at which the steel becomes non-magnetic, then putting the steel in an insulating material like hardwood ashes or vermiculite so that it cools slowly. This will make the steel as soft as it is possible for it to be when it cools.

It is not necessary to anneal a steel before forging, as being at forging temperatures makes all steels soft and removes all previous heat treatment. You anneal so the steel will be as soft as possible while you do cold work on it, like drilling holes or filing.

NORMALIZING – heating steel to a temperature about 100 to 150 degrees above 'critical' temperature and cooling in air to black heat, that is, until it loses all incandescent color. This allows the carbides to evenly distribute throughout the steel and normalize (make uniform) the grain size.

Since most smiths have no accurate way to measure temps to '100 to 150 degrees above critical', it is typically heated to just above non-magnetic for normalization, usually to good effect.

Normalizing is only one cycle, done once, and is followed by grain refinement cycles, which are a slightly lower temp each succeeding cycle. People refer to this whole process as normalizing, but normalizing actually grows grain slightly while evenly distributing carbides. It's then followed by 2-4 grain refinement cycles.

HARDENING – In order for a steel to be hardened, it must have enough carbon. How much is "enough" depends on what you want a tool made of that steel to do. The lower the amount of carbon in the steel, the less hard it can be made.

You achieve hardness by heating the steel to just above 'critical', or phase change temperature, then cooling it suddenly in an appropriate quench medium, which may be different from one type of steel to the next, or one cross section (shape) to the next. This causes the steel to be as hard as it can be, but for most steels it introduces a certain amount of brittleness. How much brittleness depends on the amount of carbon in the steel, the cross section of the steel, and what alloying elements are in it. Carbon is the dominant factor in deciding how hard a certain steel can



get. Different cross sections of steel can have hardenability dramatically affected by other alloying elements.

Things like chrome, nickel, vanadium, etc., increase hardenability, meaning the steel will harden with a slower quench. This is important because thicker steel cools more slowly. Not just the inside, which is obvious, but also the surface because it is receiving heat from the hot interior. A steel that will fully harden in water when it is 1/8" thick won't do that if it's 4" thick - unless it is alloyed for high hardenability.

'Quench' simply means to cool rapidly. In metalwork, each steel has an optimum cooling rate for hardening, and therefore an optimum quenching medium. Oil quenches more slowly than water, water quenches more slowly than brine. Quenching is part of hardening, but the terms are not interchangeable.

TEMPERING - Tempering takes a hardened piece and re-heats it to some specific temperature to reduce brittleness and increase toughness. The necessary temperature is determined by the type of steel and the specific use for the implement made of that steel. A straight razor will have a different tempering temperature than a spring made of the same steel.

One thing: redraw (temper) pretty much IMMEDIATELY after the quench, lest the internal stresses lead to cracking of the hard, but brittle steel.

Exceptions to this are if the particular steel calls for a period to "rest" prior to redraw. Not likely you will encounter such a steel, but there are some very unusual alloys that have unusual heat treat requirements.

Temper colors are caused by oxidation of clean steel surfaces at specific temperatures. What color you get is dependent on the temperature your steel reaches...IF IT GETS UP TO TEMP QUICKLY. That causes the oxide layer to form and get thicker quickly, so in SOME circumstances the color is a helpful guide to estimating tempering temperatures.

The problem with depending on that is that a number of things affect those tempering colors; any residual oil on the steel surface will change the color of the oxide, as will lengthy heating cycles. Left at a specific temperature for long enough, a steel can run through ALL the 'tempering' oxide colors, even though the steel may never reach the temperature associated with a particular tempering color from a short heat cycle. , simply because it stayed hot long enough for the oxide layer to thicken. So TEMPERING is about TEMPERATURE, not color.

The other issue is that home cooking ovens DO fluctuate in temperature. On top of that, the temp that your oven dial indicates may not accurately reflect the actual temp your oven reaches. Your oven cycles. It gets up to temp, then cycles off until the temp drops below a certain point, then it heats up again, just like your home furnace in wintertime.

What I do to address the cycling is to buy 3 oven thermometers (usually around \$10 each at the grocery store) and put them in the oven and set it for 400 degrees (as an example). When the oven says it has reached 400, I check the thermometers to see if they agree with that temp. If they do, you can be fairly confident that your oven dial is accurate.

Since the oven thermometers can sometimes be inaccurate due to rough handling in the store, I look for any two that agree. If two agree, but are different from the oven dial, then calculate the difference between the dial reading and the thermometer reading so you know where to set the dial to get the actual temp that you want.

Since the oven cycles, but I want a blade, or hammer, or any other tool to remain as close to the desired temp as possible, I bury the steel in a cheap pan full of clean sand and put it in the oven. The sand will heat up with the oven, and your steel, but will cool down more slowly than the oven when it cycles, so it moderates the temperature. So long as the oven doesn't go OVER the temp it's set for, you won't ruin the temper of your steel, no matter how long it's in there.

Written by Kirk Sullens
Henry Vila
Shane Stainton
Andrew Vida

QUENCHING

From Austin Hillrichs, with credits to Henry Vila

Rule of thumb:

Fast oil <10 seconds for Wx, 10xx, etc

Medium speed oil 10-14 seconds for 5160, 80CrV2, etc

Slow oil 14-18 seconds for O1, etc.

You need to use an oil that matches the quench speed of the steel. For example: for 10xx steels you need Parks50 to quench the steel from critical to 800F in 1 second or less, for 5160 you need an oil that does this in 5-6 seconds, and for O1 10 seconds. Too slow and you don't get maximum martensite conversion. Too fast will get you maximum martensite conversion but you'll also get either surface cracks or micro fractures in the steel or both.

And let's not forget that certain steels require air quenching, or plate quenching or salt baths, etc.

So when someone asks "what oil should I use for quenching?" you also need to tell us what steel are you quenching.

One thing to point out that might not be obvious or maybe confusing to a new smith is that steels need to be quenched to below the pearlite nose in a specific amount of time. For example:

Wx and 10xx in <1 second

5160 in 5 seconds

O1 in 10 seconds

But quenchants are measured as the time it takes to cool a nickel ball from 1625F to 670F (These numbers I pulled off the web and not all have been verified):

Brine: ~4-6 seconds

Water: ~5-6 seconds

Parks 50: 7-9 seconds

50 Quench Oil: 7-9 seconds

Houghtoquench K: 7-9 seconds

Duratherm 48: 7-9 seconds

Parks AAA: 9-11 seconds

Duratherm Superquench 70: 10 seconds

Chevron Quench 70: 10 seconds

130F canola: ~10-11 seconds

Duratherm G: 10-12 seconds

Houghton Quench G: 10-12 seconds

Gulf Super Quench 70: 10-12 seconds

Gloc Quench A: 10-12 seconds

McMaster Quench Fast: 11 seconds

Citgo Quench Oil 0510: 14.5 seconds

Citgo Quenchol 521: 16.1 seconds

Citgo Quenchol 624: 17.0 seconds

McMaster Quenchall: 28 seconds

THE FLORIDA CLINKER BREAKER

Florida Artist Blacksmith Association

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June 2021

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FABA Membership Application: Membership begins when your application and \$30 membership fee is received. Membership is per family and lasts one year. Use your credit card to join or renew your FABA Membership via Square by going to www.blacksmithing.org and clicking the JOIN FABA button to access the Square payment system.

OR send the below application and your check to "FABA" for \$30 to:

NAME _____

FAMILY MEMBERS _____

ADDRESS _____ CITY _____ ZIP _____

PHONE _____ CELL _____ EMAIL _____

DATE _____ NEW _____ RENEWAL _____ I want B&W Newsletter by mail (quarterly) _____ OR Color Newsletter by Email _____

FABA

Doug Hayes, Treasurer
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St. Augustine, FL 32086