

THE HOT IRON SPARKLE

NEWSLETTER OF THE NORTH CAROLINA ARTIST-BLACKSMITH'S ASSOCIATION OF NORTH AMERICA



Volume 35 Number 2

Second Quarter 2016



Ken Thomas demonstrating at the NCABANA 1st quarter 2016 meeting

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NC ABANA Officers

PRESIDENT
Lyle Wheeler
Millers Creek, NC 28651
336-838-2284
ncchairmaker@gmail.com

VICE-PRESIDENT
Garret Dunn
119 Tanager Ln.
Chapel Hill, NC 27517-6452
919-469-1317
gngdunn@gmail.com

SECRETARY
Jennifer Phillips
97 Trinity Ridge Lane
Banner Elk, NC 28604
828-898-2063
northcarolina.abana@gmail.com

TREASURER
Jim Kennady
1171 Cash Road
Creedmoor, NC 27522
919-528-5636
jimkennady@gmail.com

Submissions to THE HOT IRON SPARKLE can be made to:
Jennifer Phillips
97 Trinity Ridge Lane
Banner Elk, NC 28604
(828) 898-2063
northcarolina.abana@gmail.com

A Message from our President

Greetings All, 27th JUN 2016
Millers Creek, NC

It is especially pleasing to experience an un-named phenomenon of late wherein the smith gets an early and successful start to the day and upon exiting the forge for a real breakfast, somewhere around 9:30 – 10:00, chill bumps and possibly a shiver form as he passes the outdoor thermometer registering nearly 80 degrees F.

Our 1st quarter meeting at Big Blu was well attended and very successful. Thanks to Dean and the crew for hosting once again. Ken Thomas did a fine morning demo showing how he develops scrolled feet for a table.

The afternoon demo was particularly interesting as Jason Knight showed us how he forges a knife with very little grinding left to do for completion. Iron-in-the-Hat was outstanding with enough raised to fund one complete scholarship. Thank you for your continued support with the scholarship program.

The next meeting at Peter Ross's shop on April 23rd drew a good crowd. Peter wowed us with a morning demo of some cask handles he was working on for a museum in England featuring the forge welding of a hollow element to a solid element. Seeing this done once was incredible and a second time was amazing. Garrett Dunn went beyond the call of duty for lunch when his primary vehicle would not make the trip, he showed up a bit late with drinks and deserts and then arranged for and fetched enough pizza for 50. Peter's afternoon demo consisted of a tutorial of hinges and latches. Thank you Peter for hosting our chapter once again.

Six smiths shared 4 booth spaces at Fire on the Mountain the very next weekend, 4/30th, in Spruce Pine, NC. This annual event keeps growing and improving. Sales were brisk all day and the chapter was well represented. We had many members stop by and we were able to introduce the chapter to potential members from all over the state.

The 2nd quarter meeting was held June 25th at the Dixie Classic Fairgrounds and hosted by the Triad Blacksmiths. This meeting drew a crowd of over 60 and there wasn't a whole lot of Marshall's famous barbeque left over



for sale. The morning demo was performed by Paul Spainhour showing his newly acquired technique for forging 3/4" pipe into elements for a lamp base resembling bamboo. Paul was fulfilling the demo requirement part of his scholarship agreement and related his experience at Penland School of Crafts last summer. The afternoon demo was conducted by Ian Thompson showing techniques for repeatability, forging a punch from S-7 and team striking on a piece of 1/2 X 2.

The 3rd quarter meeting will be hosted by Blacksmith's Depot in Candler, NC starting at 9:00 a.m. Saturday, August 27th. The morning demonstrator will be John Gruber, head armourer of Surly Anvil, while the afternoon demonstrator will be Doc Cudd of Barnardsville Ironworks. Paul Garrett will host a meeting Nov 4 + 5 at the Spencer Forge @ JCCFS in conjunction with the Appalachian Area Chapter and in support of the annual Blacksmith's Auction there. The Q4 meeting will be at Roger Barbour's shop in Clayton, NC on December 3rd.

Big changes are underway at the Heritage Forge at the State Fairgrounds. Please read my report in this issue for details.

As we progress through the year I am thankful for the continued support from the leadership and membership of the organization. We have a strong chapter and our strength comes from within. Keep making stuff that pleases you.

Lyle Wheeler, President NC ABANA

NC ABANA Reports

Treasurer's Report



<u>Business Checking Account</u>	2016 YTD
Dues	\$3,000
Newsletter Printing & Postage	\$1,568
Newsletter Editor Fee	(\$1,000)
Insurance	(\$1,460)
Statewide Quarterly Meetings	(\$604)
Postage	(\$144)
Other	(\$663)
Heritage Forge Net	N/A
SBA Madison Conference Net	N/A
Net	\$697
Balance	\$15,315
<u>MMA - Scholarship Fund</u>	2016 YTD
Income	\$1,335
Scholarships	(\$1,000)
Net	\$335
Balance	\$6,913

Jim Kennady, Treasurer of NC ABANA

Secretary's Report



The business meeting of the NC ABANA chapter was held at the first quarter chapter meeting at the Oak Hill Iron in Morganton, NC on March 19th, 2016. The meeting was led by Vice President Garret Dunn.

Garret mentioned how the Iron-in-the-Hat raffle proceeds go towards the NCABANA Scholarship Fund and that there are many scholarships still available for this year. Please send any applications to him (contact info on Page 2). Credit cards can also now be used to purchase Iron-in-the-Hat raffle tickets.

Eric Campbell invited all NCABANA members to sell items at the upcoming State Fair in Raleigh, NC. The blacksmith's shop at the State Fair is currently undergoing renovations with work-dates scheduled for September. Eric Campbell also discussed the SBA Conference of 2017. Demonstrators will be Amit and Ah-Lee from Israel along with Tom Willoughby and his anvil vultures.

Nominations for President and Treasurer will be opened at the second and third quarter meetings. If ballot are necessary, they will be mailed after the third quarter meeting with the winner announced at the fourth quarter meeting.

The second quarter chapter meeting has already taken place at the time this article was written. NCABANA will have its 3rd quarter meeting at Blacksmiths Depot in Candler, NC on August 27th, 2016.

Jennifer Phillips, Secretary of NC ABANA

New Members

Annemarie Tankersley	Winston Salem
Bobby Dunn	Advance
Christopher McKeen	Raleigh
Gary Palmer	Connelly Springs
Jim Perry	Denver
Jon Michael Smith	Raleigh
Joseph Anderson	New Bern
Matt King	Carthage
R. Mark Eichinger-Wiese	Hillsborough
Robert L. Wilson	Graham
Sean Bishop	North Wilkesboro
Tom Wilson	Marshall
Wayne Woody	Oxford

Opting Out of a Hardcopy

Due to increasing prices of postage and printing costs, NCABANA would like to make receiving a hardcopy of the "Hot Iron Sparkle" optional. Some members have expressed an interest in the preferred online copy because it is in color and better for the environment. If you would like to download your "Hot Iron Sparkle" newsletters from www.ncabana.org instead of receiving one in the mail, please email Jennifer Phillips the secretary for NCABANA at:
northcarolina.abana@gmail.com

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 Web site: www.nctoolco.com

Join NC ABANA

Annual dues are \$30 (inside USA), \$40 (outside USA) starting January 1, 2016. Make check or money order payable to NC ABANA and send it to:

NC ABANA c/o J. Phillips
 97 Trinity Ridge Lane
 Banner Elk, NC 28604

For more information email: northcarolina.abana@gmail.com

or visit the NC ABANA website: www.ncabana.org

ABANA Conference Ad

The ABANA 2016 Conference is just around the corner, July 13-16! **It only happens every two years and you won't want to miss this one!**

It's time to plan to attend the 2016 biennial conference of the Artist Blacksmiths Association of North America, to be held at the Utah State Fairpark in Salt Lake City **July 13 - 16, 2016**. The site boasts a large tree lined grass area for the demonstrations. For more information and registration, visit:

<http://www.abana.org/Conferences/2016/>

Also, don't forget to book your room now!

Salt Lake is a popular place that time of year and rooms go fast. Even if you aren't sure, you can hold your reservation with a credit card and it won't cost anything if you cancel before the conference. Please notes at camping is also an option! Campers must pre-register. Space is limited! We have room for about 200 campers.

http://www.abana.org/Conferences/2016/contents/en-us/d6_Camping.html



Forging Colonial Ironwork

Jerry Darnell's new book *Forging Colonial Ironwork* is finally here. It is a compilation of over 22 years of teaching notes at John C Campbell Folk School and various conferences throughout the US. The book is about 120 pages both sides and divided into 4 chapters; Colonial Lighting, 18th Century Hearth Equipment, Early American Hardware, and Hooks and Hangers. There is a mix of 63 different projects from simple to advanced.

The cost is \$20.00 plus 6.75% tax and \$10.00 for shipping and handling. Order by phone, e-mail or visit the salesroom M-F from 10 to 5 and on Sat. 9:30-5.

www.millcreekforge.com
 Mill Creek Forge
 Jerry Darnell
 4512 Busbee Road Seagrove, NC 27341
 E-mail forge_on@rtmc.net
 Phone: (910) 464-3888 (Shop)
 (910) 464-2636 (House)

Regional Reports

Wilkes Teaching Forge

Report and Photos by Dave Baker

WTF has met consistently for the past few months with good turnout, tonight [February 16th] was no different. Special guests from Wilkes Community College machine class were in attendance. Lyle, with a full shop of new to the forge people, was ready to teach.

He demonstrated the steps in making a hook and what each area of the anvil is called. Each discipline has its own language, "shop talk", so to communicate effectively you have to learn the language. The reason for good shop practices and strategies were explained.

First Lyle used clay to show the group how metal will behave when hammered, he then used metal to show real life examples. A proper fire and its elements were also discussed.



Lyle Wheeler demonstrating how to forge a hook

William Hoover, the youngest member of the group stepped up to demonstrate how to make a leaf as Lyle explained the steps to the group. William had no problem overcoming the fear of being in front of a group, that's half the battle of demonstrating.



Will demonstrating how to make a leaf

John Freas showed pictures of a coat hook rack he had been working over the past several meetings that was now completed and mounted proudly at his home. Good job, John.

Hayden Lacey, one of the WCC students was volunteered to make a hook. Hayden tried his hand at what was to become a communal hook. As with all newbies, there is a lot of advise: "more heat", "raise your

arm”, “lower your arm”, “more heat”, etc. But in spite of all the “help” he managed to make his first hook.



Hayden working on his first hook

Lyle discussed the benefits of joining NCABNA. The upcoming events and meetings were announced and invitation was given to attend was given. It was a very good meeting.

The March meeting was held at Gary Roath’s Forge on the 15th. Our new friends from the College were back showing much interest. All of the work stations were full with a queue at each. Gary, Lyle, Dave, and Josh were all busy teaching, coaching and encouraging the new members of the group. Josh Cooper brought a standing coat rack he had made. Excellent work Josh. Alex Church tried his hand at hook making. Josh also demo’s making a bottle opener. The upcoming events and meetings were announced and invitation was given to attend was given.



Lyle demonstrating a forge-weld



Josh cooper’s coat rack

The April meeting was held at Gary Roath’s forge again on the 19th.

Gary and Lyle each demonstrated their version of a bottle opener. Dave Baker demonstrated making a horse head from flat bar stock. The college group has become regular attendees now. After the demos the group broke up to smaller groups to try out what they had seen. Several bottle openers were made. The next meeting is 5/17/16.



WTF group watching Lyle's instruction

Southern Foothills Blacksmiths

Report and photos by Ray Clontz

The Southern Foothills Blacksmiths had a good turnout in April and members worked on their own projects as usual. We have been having some new people visit and hopefully they will become members. One new visitor has been bringing a nice gift each time (peach cobbler the first visit and strawberry cobbler the second).

We didn't have a meeting in May as it would have fallen on Mother's Day. Special wishes to all of those hard working women.

Continued are some pictures of meetings and the members working on their projects.



Matt Morin forging a knife



Shawn Emmons with his Jerry Darnell lighting fixtures



A firepoker one of the members made



Fred Connell grinding a blade



Excited smith using a Big Blu power hammer



Working on a railroad spike knife



A knife ready to be ground



Drifting a tomahawk takes a lot of help sometimes

Triad Area Blacksmiths

Report & Photos by Marshall Swaringen

The second quarter state meeting is just around the corner, June 25, 2016. Paul Spainhour will demonstrate in the morning and Ian Thomsen will be handling the afternoon. Lunch will be BBQ and the price will be \$5.00 (unless pork goes sky high). TAB will furnish drinks and water. Tailgating will be open in the parking area so load up your truck and cars and have fun. Remember the Iron-in-the-Hat Raffle, bring lots of items. It is a good way to clear some items out of your shop or house.

Our Tuesday night demonstrations have had good attendance and response. Keith Roberts has lined up a verity of subjects and demonstrators. It is good to see everybody practicing one item and mastering it. Keep up the good work Keith!

Our attendance has stayed high. We have a couple of new people that will be with us for a long time and have some talents to share.

In June we will host a group of explorers from Forsyth County. They need some camp cooking gear and we show them how to make it. We may even get a couple new members from the group.

It is spring demonstration time. Our members are out at many locations. There are too many for me to remember. I must start writing them down and ask for pictures. Joe Allen demonstrated at The Spencer Train Shops and had a little help from Marshall Swaringen. Friday was a day for the local schools to visit. Each class saw a nail made and it was presented to the teacher. And they had a lot of questions. Saturday was open to the public.



Marshall Swaringen demonstrating for a group of school children at the Spencer Train Shops

We are looking forward to seeing everybody at the second quarter meeting in Winston Salem in June.



Joe Allen tricking some school children with an old-timey puzzle

with no problem.



Forged wrought iron from locomotive boiler bolts

We forged one out into a long point that was needle sharp with no splitting or failing. We forged out one of the bolts out to about a 1" square and chiseled and drifted out a 5/8" hole with no splitting or cracking at all.

Brasstown Blacksmiths

Report & Photos by Paul Garrett

We met this month [April] at Paul Garrett's shop at the John C. Campbell Folk School, and had a good time in the spring weather.

Paul had some various samples of wrought iron that he had been collecting and after everyone had been fed, we lit the forge and hammered some of it out to see how it worked and the various qualities.

Some of it came from some old locomotive boiler bolts and this turned out to be very highly refined. It was excellent quality, and forged out like butter. The threaded ends had been cut off to get them out and had a hole bored down their centers. They were rusty and caked with scale and in bad shape, but they forged out well, and the holes welded themselves shut



*High quality wrought iron bolts at left
Unrefined iron on right*

The other sample by comparison was a piece of what looked like a tension rod from a building, and had visible grain structure. After slitting and drifting it in the same fashion, it came apart pretty significantly, by splitting longitudinally at the edges of the holes.

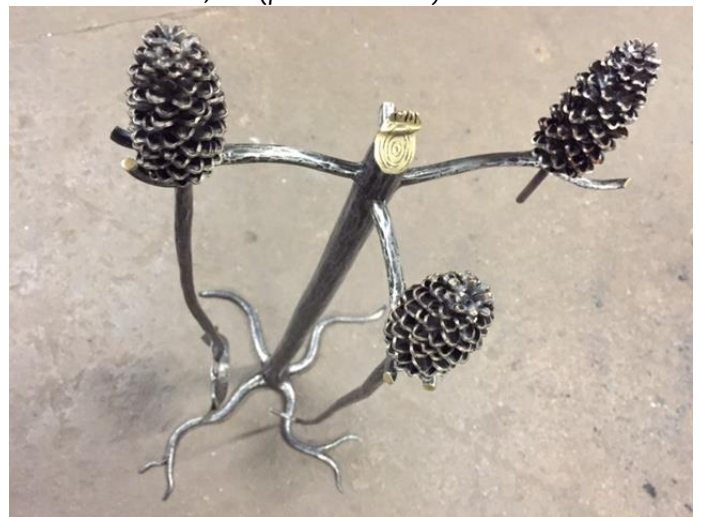
One of the rough threaded sections of the bolts spread out very widely with the peen on the hammer and down to about 1/16" thick and 3" wide with no failures.



Having a good time forging wrought iron

All in all, it was lots of fun playing with it, and trying some different things with.

Mike LaMarre brought along a set of really nice set of fire tools with pinecone handles and branch-like handles. The cones looked very realistic and could have passed for the real thing. The base was a nicely done root system and trunk complete with growth rings chiseled into the top and forged out of one piece of 1 1/4" square. Really high quality work, and done for a client in Athens, GA (pictured below).



NCABANA Member Classifieds

Cindy Alexander has a few items for sale

5'x9' Trailer \$500

- Built on mobile home axel
- 16" sides, 2" ball

Aluminum Ladders: Firetruck ladders - yes Jimmy used to build firetrucks

- 16' extendable to ~28' \$200
- 12' one piece \$75

Call Cindy at (919) 740-8692

Retired blacksmith has a shop full of tools for sale

Including:

Ironworker	Anvil
Post vises	Hammers
Gas & coal forges	Tongs
Power hammer	Scroll jigs
Treadle hammer	Grinders
Welding equipment	Sanders
Hoist	Bandsaw
Numerous small tools	

Contact Ed Crane of Lake Ridge Forge
262 Blands Knob Road, Little Switzerland, NC 28749
(828) 766-6161



OAK HILL IRON is an award-winning metalworking shop unlike any other. We are one of the largest artist blacksmith shops in the country and we take on projects from around the world. Built on a firm foundation, our business has been in operation for over thirty years. Over that time we have built a crew and shop that is the envy of our competitors. We build and manufacture our own line of blacksmithing tools that are used by thousands of other blacksmith shops.

Our team consists of a hand full of choice-picked artists and craftsman, many of which came to us with little or no experience. We have a solid work structure with many opportunities for advancement through exposure to world class metalwork, on-the-job training, and even after-hours opportunity for self-training and group workshops. You don't need to have a lot of experience, we just want all of our employees to show up to work on time with a good attitude and have the passion to create with them every day.

If this sounds like a place you might want to work, then email your resume and a brief description of yourself to O.H.I.agent@gmail.com and let us know why you want to be part of the Oak Hill Iron family. Be sure to include the serial number in your email found at the bottom of this advertisement and your phone number as well as the best way to contact you so that our hiring agent will get back to you within 48 hours. Thanks!

4815162342

Liberty Arts Sculpture Studio and Foundry is a nonprofit artist collective in Durham. We serve as an incubator for our **artists'** careers while offering entertainment, education, and outreach to our community. We have artists in all types of 3D mediums including metalwork, woodwork, casting, ceramics, and glass. We are seeking a blacksmith to join our fold and add to our collective knowledge and abilities. Blacksmithing is a skill and art form that we notice a growing amount of interest in, especially from the young members of our community, and we would like to be able to give them mentorship and knowledge that we currently **don't** possess. Please, contact our executive director, Nick Verna, at nmverna@gmail.com to find out how to join our organization. Check out our website for more information about us: www.libertyartsnc.org

Blacksmith Instructor Position available at Mayland Community College, Avery Co. Branch

Mayland Community College is located in the Appalachian Mountains of western North Carolina. It is currently one of 58 institutions operating under the North Carolina Community College System.

Mayland offers a variety of curriculum programs, including numerous college transfer options, as well as adult education, distance learning, and dual enrollment for high school students. The open-door admission policy accepts students as young as 14, in the Early College High School, and as senior as octogenarians, in the Continuing Education Program.

To assist the local workforce, MCC provides hundreds of workforce development and continuing education courses that directly serve the needs of local and regional business and industries, as well as the civic and cultural interests of the community. And the college's recent revitalization involves a strong commitment to the economic development within the three counties it serves.

Mayland Community College, Avery Learning Center desires to build upon current blacksmithing classes to expand the Blacksmithing program to the citizens of Avery and surrounding counties. This is a part time position dependent upon student interest and registration.

The ideal candidate will provide documentable experience and must be able to communicate effectively in an adult education setting. Prefer someone who can work a flexible schedule.

Duties will include, but are not limited to:

- Assist in creating new long and short term classes for all levels of blacksmiths.
- Provide students with clear course expectations and detailed syllabus.
- Communicate clearly with students while sharing hands on activities.
- Meet each student at their level of learning.
- Work with students age 16 and up in an Adult Education setting.

For more information or to email a resume, please contact Melissa Phillips, Dean of the Avery Learning Center. Phone number is (828) 733-5883 and email is mcphillips@mayland.edu.

NCABANA Library Item Loan Form

Name: _____ Date of Request: _____

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phone: () _____

Email Address: _____

Item Code (If
Known): _____

Title/Au-
thor: _____

Email this request form to John McPherson trollworks@hotmail.com with NC ABANA in the subject.

Return Items To: NCABANA C/O John McPherson
3031 Chenango Drive
Charlotte, NC 28212

Event Reports

NCABANA 1st Quarter Meeting

Story & Photos by Doug Wilson

Oak Hill Iron in Morganton hosted NCABANA on the 19th of March. Two smiths shared duties at the anvil for demonstrations. Before lunch, Ken Thomas of Seiverville, TN, demonstrated forging a fishtail detail for a table leg. Following lunch, Jason Knight from Charleston, SC, demonstrated forging a blade.



Ken Thomas & a complete table leg with a jig for bending it



Chuck Brady assists as Ken forges a central fuller



Completed fullered groove



Hot chiseling two grooves on each edge



Chiseled fishtail leg end



Straightening on a wood block



Touching up the scroll curve in the vise



Scrolling the chiseled table end



Tapering the leg under a Big Blu power hammer



The crowd admires a finished table leg end



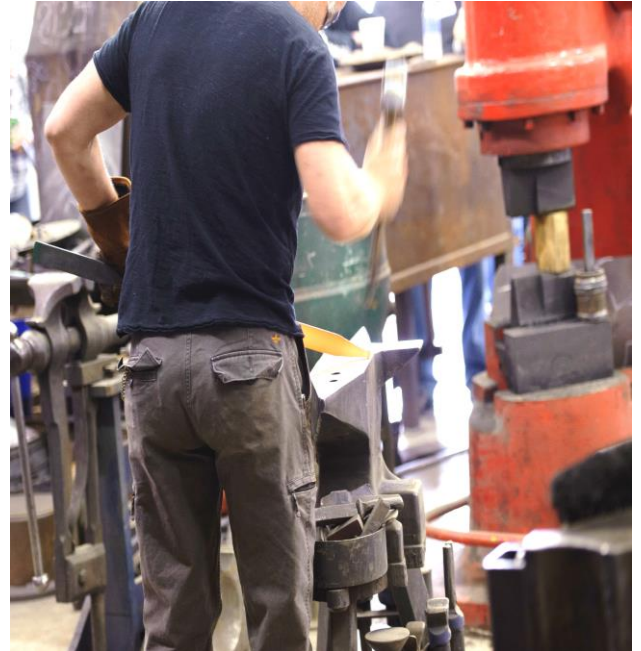
Blacksmiths enjoyed a delicious lunch catered by Mountain Burrito



Jason roughs in the profile of the blade on the power hammer



Garret Dunn and Dick Snow call a winner at Iron-in-the-Hat



The profile is refined at the anvil



Jason Knight warms up the crowd with stories of his background and knife making philosophy



Flattening and forming a distal taper



...and back and forth between anvil and power hammer to refine the profile



Drawing out the cutting edge under the Big Blu



Setting down the handle with half-on blows on the anvil



Refining the edge on the anvil; note the distal taper



Pre-curling the blade before drawing out the cutting edge



The profile is developing



Adjusting the clip



A final straightening in the vise



Profiling the tang



The finished rough blade

Fire on the Mountain

Photos by Ian Thomsen & Andy Phillips

The annual Fire on the Mountain Festival was held on April 30th, 2016. The streets were full of vendor booths, demonstrators, and visitors touring the town of Spruce Pine, NC.

Demonstrators for the day included many booth operators along with Gary Noffke, Jay Burnham Kidwell, and Paige Davis. Gary made a beautiful silver spoon and Paige forged some amazing candlesticks.

There was also a forging competition again this year. The theme was again forging a snake in less than an hour.

In the hands on tent, participants could try their hand at forging garden stakes. The volunteers from the Penland Folk School always provide great instruction to anyone who hasn't even held a hammer before.

The local art galleries are always one of the best attractions. One of NCABANA's own members even won an award at the Toe River Arts Council Exhibit. Paul & Patricia Spainhour won the award for Most innovative. Congratulations!



Paul & Patricia Spainhour accepting the award for Most Innovative at the Toe River Arts Council Blacksmith Exhibit



NCABANA's main booth



Another view of the NCABANA booths



The Spainhour's winning art



Jennifer with Argenta, Ferrous, and Aeris Phillips enjoying some of the street art.



A better view of the street mushrooms

Thanks to everyone who came and saw the sights. Make sure to look for NCABANA's booths again next year on the last Saturday in April.

Tire Hammer Plans

Send check/money order for \$30 to

Clay Spencer
73 Penniston Pvt. Drive
Somerville, AL 35670-7013

Includes postage to US and Canadian addresses. Other countries e-mail clay@otelco.net for price. **256-558-3658.**

Tire Hammers for sale contact me for current price.

Beverly Shears Sharpened

\$41 includes return shipping in US. Remove blades and ship to address above. Extra cost for deep nicks or blades sharpened at wrong angles.

Featured Articles

Photo Gallery

Assembled by Jennifer Phillips

This quarter's Photo Gallery is really different. Instead of viewing photos of the work people around the world do in the field of blacksmithing, I want to show you the tools you need to do it yourself.

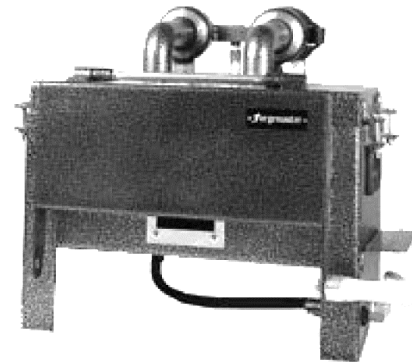
There have now been several galleries showcasing all the things you can accomplish as a blacksmith. This time, I want you to see how the professionals get it done.

The tools pictured in this gallery are all locally made. All of these businesses and blacksmiths have been paid advertisers in the "Hot Iron Sparkle" and most of them for many years. This is what they have to offer to help you achieve your goals in the metalworking industry or hobby.

A special note in that the contact information for these businesses is located in advertisements throughout the "Hot Iron Sparkle". If you are interested in any of these tools, I encourage you to look up their contact information and give them a call.

If you would like to have some of your work featured in the next photo gallery, you can message my Facebook account (NC ABANA) or send an email

to northcarolina.abana@gmail.com. I can also scan and upload any pictures mailed to my address (on Page 2). I hope you enjoy these pictures as much as I have and happy forging.



This propane forge by Blacksmith's Depot is the best place to start when talking about blacksmithing. Every smith needs some type of fire. So whether you are using a hole in the ground or a double burner propane forge, fire is the most important tool.



Straight or gooseneck, tongs aren't always a necessity when blacksmithing but that's only if you don't believe in fingerprints either. I personally tend to use tongs to heat up small bits of iron and keep my gloves out of the fire. My husband tends to use tongs for thick stock material that is also short in length. Any blacksmith that has been around for a few years probably has a rack somewhere in his shop with a hundred sets of tongs hanging from it for all purposes.



Basic Bending Fork

Once you get the hang of swinging a hammer, that's when the fancy stuff comes in. Bending forks like the ones pictured above help create the perfect bend, curve, scroll, or twist.



Next up are the tools for making characters like a ram's head or wizards. Check out this set of eye hand punches. There was an article just last quarter about making your own but if you haven't gotten around to reading it yet, you can always buy these.



1" Fishtail

If you've had a chance to read the article about the first quarter meeting, then you have seen a fishtail forged the long way. This texture hand tool makes the same fishtail in a lot less time. Texturing tools are what give the faux wood looking metal rails their natural appeal.



I'm going to end Blacksmith's Depot with the beginning. Having a hammer is the first tool a beginning blacksmith usually owns. This German style hammer was the first kind I ever used so for sentimental purposes, this is the one I'll showcase.



Let's start off Ken's Custom Iron with some real power, a power hammer that is. Power hammers are great for the full-time blacksmith to help move some serious metal. If you are forging for a living, then you probably own some type of power hammer.



Going with a different type of tongs this time. These are slot jaw tongs. As you can see in the picture, the slot allows oddly shaped material to be worked on like a flower on one end while you work a leaf on the other.



Speaking of flowers, Ken's Iron also has varying flower blanks for sell for those of us who don't own a CNC.

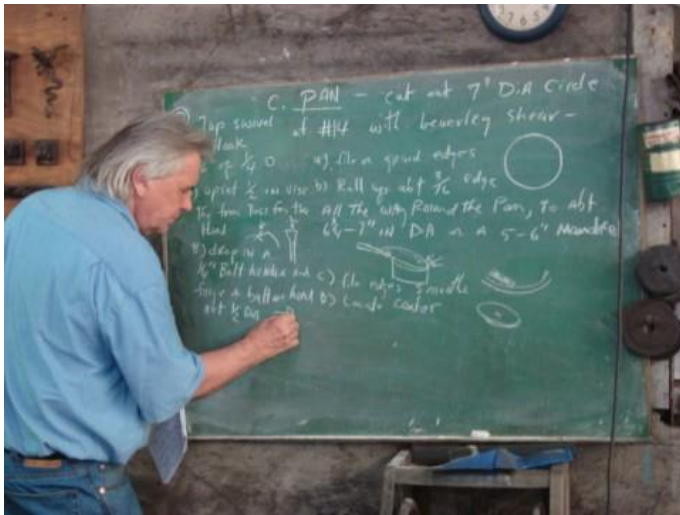


These hand fuller tools are versatile in their uses. Following with a different "Tool of the Quarter", fulling tools are used to make the details of the work.

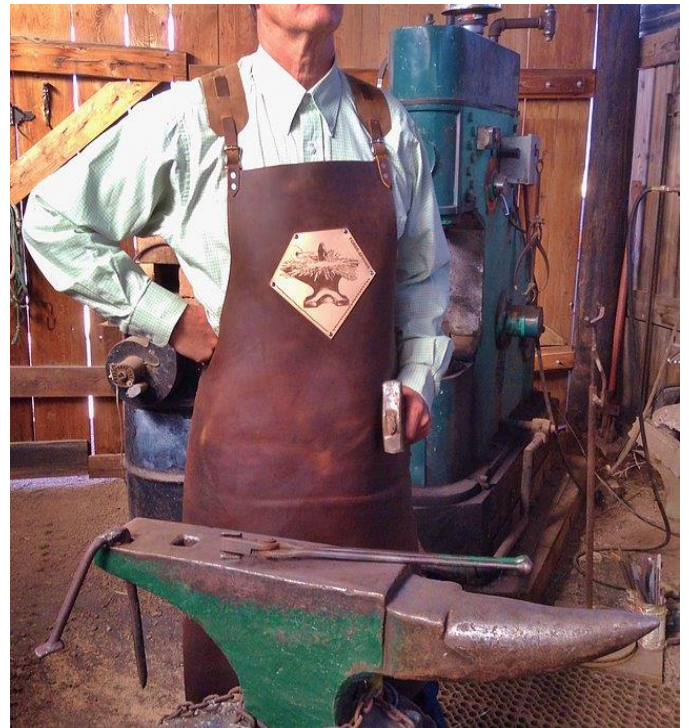


Like a miniature swage block for your Hardy hole, this small cupping tool is the perfect size for leaves and flower petals. I also know quite a few smiths that really like to make kitchen tools such as ladles who could appreciate a tool like this.

That's all I have right now for Ken's Iron.



If fire is the most important tool for a blacksmith, then knowledge must be a close second. (You have to know how to make & tend a fire, right?) Pictured above is NCABANA's own Jerry Darnell doing what he is known for: teaching. Currently Jerry has two books that are available in print about forging colonial ironwork. Thanks for taking the time to print these. I'm sure the knowledge contained within will be passed down for generations of blacksmiths to come.



While some may scoff at the idea of wearing an apron, those blacksmiths must have more understanding wives that can sew up hundreds of tiny holes in T-shirts. I am not one of those and that's why I love Forge-Aprons. I also love Forge-Aprons because they donated one of their very special large-sized aprons to NCABANA's Iron-in-the-Hat raffle at our second quarter meeting. Thanks again for that awesome gift!



Pictured above is the famous (infamous?) Clay Spencer Tire Hammer. Similar to power hammers, this is a step above a treadle hammer as the blacksmith's companion. You can take a class and build one of these yourself, then take it home with you! Or you can purchase the plans to make one yourself.



Our next product line is from NC Tool Company. Pictured above is their aptly named NC anvil. At a relatively small 70 pounds, it can still get the job done with the best of them.



With hand grinders, sanders, belt grinders, and every other power tool out there on the market; some might forget the trusty file. I haven't forgotten my filing days and there are many a smith out there with a couple hundred hours of filing under their belts as well.



Time for some real work with this four-burner gas forge.

While some might say that gas forging isn't real blacksmithing, I would say that having the extra time of not having to maintain a coal fire really puts a blacksmith into more of the production realm of creating.



After spending a lot of time on NC Tool Company's website, I would have to say that they are geared heavily towards the farrier-blacksmith. But even a hobbyist blacksmith can appreciate horseshoe art. Pictured above is a standard NC horseshoe. One among many available from NC Tool.



Our last feature company is Big Blu Hammer. A favorite among NCABANA members for their hosting of the first quarter meeting for over ten years, Big Blu is known for their power hammers like the one pictured above.



Another item that Big Blu is known for is their ergonomic hand hammers. After over 10 years of using German style hand hammers, I finally converted. The flat head of the hammer and stout frame gives me more control and power than the traditional hammers I was raised with.



Pictured above are bowl dies to fit that power hammer you have. From forging small soap dishes to elaborate leaf sinks, these bowl dies can do it all.



When talking about blacksmithing, you can't forget the punches & drifts. These 1/2" slitting punches by Big Blu are the perfect set.



This anvil is substantially larger, weighing in at either 260 pounds or 540. The stand is also custom built to hold this particular anvil. Definitely recommended if you work a lot with larger stock.



Our last item from Big Blu is their 10-piece fullering tool set. A little different than the last fullering tool set in that these are to be used almost solely with the assistance of a set of tongs. Yet again a very stout product sure to last a lifetime.

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NC State Fair Heritage Forge Report

Article by Lyle Wheeler

During the State Fair last year I was fortunate enough to talk with Commissioner of Agriculture Steve Troxler and specifically his vision for the future of the fairgrounds and our part in that vision. This will begin with a total renovation of the Heritage Forge. From our conversations, a meeting was convened in the Commissioner's cabin on the 2nd Saturday of the fair. Garrett Dunn and I represented our interests. Many possibilities and site specific considerations were discussed with no final decisions made. A commitment from those in attendance was secured that the project was a "GO" for this next fair. Our part in this is to finish the inside of the new structure once the Fair finishes the outside. That's where we left the table.

I was contacted in early March by Kent Yelverton, the lead architect and planner for the Department on this and many other projects, requesting a meeting at the Forge at the Dixie Classic Fairgrounds. We secured March 24th with Marshall Swaringen and I met Jim Kennady for lunch at that little Greek place across from the LJVM. Marshall had the forge open for inspection and Kent with the Fair guys and the Commissioner and his deputy, Zane Hedgecock maintained a punctual arrival and we got down to business. The desire here is to recreate an 1860 to 1890 forge patterned after the forge there. Marshall related how their group operates the demonstration area and pointed out the many pros and few cons to their set up. From this we talked about sizes of buildings and existing log structures that the Commissioner was involved with and the donation/transference of these structures to the fairgrounds. Touring the grounds in Winston-Salem many ideas were floated and the Commissioner decided that we should have a "dogtrot" structure consisting of two log buildings connected by a breezeway. After further discussion it was determined that this new building be under dry by the first of September. Demolition was set for 5/1 on the old forge. Eric Campbell and his crew removed everything we could to re-use in the new forge and have it stored securely. The old forge has been demolished with some important materials salvaged and grading for the new site is next.

What we will end up with is a 24' x 26' log building for the demonstration area and a 20' x 20' log building for the sales area connected by a 15 foot wide breezeway, turned 90 degrees and running

longways parallel with the and about 10-15 feet off the flower show wall.

I have divided this opportunity up into two parts.

First and foremost is the demonstration area. I have designated Roger Barbour and Al Andrews to lead that effort. We met at the Q2 meeting and came away with a fairly detailed plan for what we will build in Raleigh. We will have a double firepot arrangement with single hand crank blowers, dual side drafts converged to a single flue, with an antique brick facade on 3 sides for the main forge. Fabrication will take place at Roger's shop in Clayton. We will be pouring a slab to set the forge and brickwork on. We will then need to re-set two of everything and more. We have a wish list. Due to logistics and security we will be coordinating items pledged and have set times for delivery and installation. There will be ongoing work days in September to get this done.

WISH LIST:

- 2 more anvils
- 4 post vises
- 2 swage blocks
- 1 cone mandrel
- 2 wooden slack tubs
- 2 post drills
- Lumber for benches
- 2 chalk board
- Layout table
- Lumber for displays
- Paint
- Electrical components
- Wiring
- Plumbing
- Lighting
- Fans
- Misc. hand tools & tongs

The sales area effort will be led by Eric Campbell. At the present time there is no way to determine how that area will configure until we know where the doors and windows will be placed. Eric's group is currently working on our signage and educational components, while amassing materials to rebuild the counters and displays. Concurrent work days will be scheduled so those of us with some passable finish carpentry skills may want to showcase those talents.

Please contact Roger, Al, Eric or myself with your concerns and pledges of support. Thank you!

Heritage Forge Teardown

Article & Photos by Eric Campbell

The Heritage Forge teardown went better than planned thanks to the hard work of many

NCABANA members. In December, we had a first pass teardown where we removed lots of awkward heavy things and all of the metal stock. My neighbor's kids even got in the act by helping me load the post drill and treadle hammer into my shop and they spent about an hour crushing aluminum cans on the treadle hammer. Jerry Langdon came out and moved and stored all of the metal stock and benches from the forge.

We were not allowed to do anything that affected the structure of the building until we received a one month notice for the demolition of the Heritage Forge. Once word came of the demolition Tom Watkins, Al Andrews, Roger Barbour and myself worked to get the forge to the point where we had one to two days of work left.

The people who came out to help on the 16th were Cindy Alexander, Garrett Dunn, Dick Snow, Robert Timberlake, Dan Ritchie, Jim Kennady, Larus Maxwell, Tom Watkins, Al Andrews, Roger Barbour, and Eric Campbell. Roger Barbour and Al Andrews did a great job of safely removing and salvaging the exhaust fans and chimney. Everyone else made short work of salvaging and helping me store every reusable piece of hardware we could find.

Thanks to their hard work, the fairgrounds staff had two extra weeks to salvage the roof and a lot of lumber from the old shop that otherwise may have been lost.

If you want to see more photos of the teardown please go to:

<https://www.facebook.com/heritageforge>

Thanks again for everyone's support.



Removing the chimney



The shop is getting empty



Tom Watkins and Dick Snow resting during the long teardown process



Heritage Forge at the State Fairgrounds before teardown



Cindy Alexander in the foreground helping everyone load up their trucks to move the important tools out



The forges are gone too



Even the walls are coming down



You can really see how old the Heritage Forge was in this picture where the sign used to



Al Andrews telling the younger helpers to get back to work

As the fair time quickly approaches this year, we will be asking for a lot of help come September to set up the new shop. Also make sure to check out the wishlist on page 26.

While the fairgrounds will be building the outside of the new shop, NCABANA is in charge of setting up the inside. The remodel will be in 1860s-1890s style in keeping with the Heritage Village.

When the time comes for volunteer dates and needed items, an email will be sent out to the group with the important information so if you haven't joined NCABANA's google group, you can always do

so by contacting the Secretary at northcarolina.abana@gmail.com. Thank you to everybody for the continued support.

Iron Concept 1: Intro

Article by Andy Phillips



Recently, Andy has added the "Iron Concepts series" to YouTube as a companion to the more formal, published version you are used to seeing here. His goal is to make the video version more open and even more like a discussion to help refine the ideas and then boil these discussions down into the article you are used to reading. Not all of the videos will be made into articles but those that are will be the refined companion to the videos they are titled after. So far Andy and I have had success with this new format. This time, however, I wanted to publish the direct transcript of his introduction video to the series here to give you an idea of the difference. Next quarter, this series will be back to normal with an article based on the video (competition vs community) that will be up posted by the time this publication is out. Andy encourages you to check out the new video series and much more at:

www.youtube.com/user/BigBluHammerMfg as well as sending any feed back to him directly at thebladesmith@hotmail.com.

This article was transcribed from the Big Blu Hammer YouTube page under the Iron Concepts video series. This is Iron Concepts 1: Intro.

My name is Andy Phillips and I work at Oak Hill Iron. This is my first Iron Concepts video blog and it is kind of a different format for us.

This first video is about what this series of videos is supposed to be about and what I hope to accomplish with it. I get on a lot of forums talking to other blacksmiths and go to a lot of events and that sort of thing. There is a lot of stuff I want to discuss. I write a lot of articles for our local blacksmithing journal and I get feedback on some stuff and some stuff I don't. I figured with these videos, it would be a great way to talk and get some feedback from the people watching.

In doing this, it may help people learn something by watching these. The big thing is that it helps me.

I will be calling this series the Iron Concepts. It has a pretty significant meaning to me. I have kept it around for a long time [including in] one of the local articles I write. To me it is a title that embodies more than the traditional blacksmithing. It involves more than the core values and

sets that people associate with the blacksmith. When I have a concept outside of that [which is traditional blacksmithing], it is an iron concept.

Where it comes from is when I was little, about 13 or 14, just starting to get into blacksmithing and that community, there was a shop in East Bend, NC. I had been to the shops around [where I grew up] like at Dixie Classic Fairgrounds and Bernd [Mergener's] shop, where I would end up doing my apprenticeship. But I finally got to go to this meeting and the name of the shop was Iron Concepts. And to me it was the first mind blowing experience [of my future career]. I didn't know that blacksmithing was what I was going to do as a career at that time. I thought of it as a hobbyist thing. Something that you could incorporate into a different field. But I had no idea up until the point I walked into that shop that blacksmithing could be what it was there.

They had a multi-tiered shop [with] a lot of guys. They were doing furniture work, prototyping. They were building tooling. Tommy McNabb and a famous knifemaker was helping Mark Wayne, owner of the shop, and was doing some totally mind blowing stuff. When you see somebody forging individual pieces, when you see them forging S-hooks it's different, that was the first time I saw someone forging parts for furniture. Stacks and bins of things that were forged. They had fixtures that had automation: pneumatic fixtures. Still probably to this day probably some of the coolest things I had ever seen. Hydraulic presses and multiple power hammers lined up.

And when you looked at the talents of the individuals surrounding a kind of shop like that, they weren't all just hand-forging experts. Some people were good at machining, engineers, some were welders, fabricators. Forging was not necessarily the centerpoint of everything going on. And when you start talking about a real blacksmith's shop, real ironworking shop, historical or not, that's a truth you eventually have to face.

For me, coming into our community as a 13 or 14 year old boy, I saw the hammer and anvil. The fire! Being able to heat up a piece of steel and manipulate it to be whatever you want. But I didn't see all the other stuff that went around that. Even in a modern blacksmith's shop there is so much more going on than the hammer and anvil.

Through my early years and my introduction to blacksmithing, I was around that shop a lot and tried to

make it out there whenever I could. He had local monthly meetings. In my idealistic phase, growing up being self-employed and running your own small business, I looked at a shop like that and every time I visited that shop it was like a bedrock. There was no way you could lose money at a business like that. They had pretty much a monopoly at what they were doing. Multiple guys working with multiple revenue streams. Lots of different stuff going on at the time. Growing up I didn't have a lot of exposure to business but looking at this blacksmithing shop: this could never go south. It was such a cool and solid business.

But of course it did. And that was another thing I learned from that business, Iron Concepts. Even if you do everything right, all it takes is just one person stumbling a little bit. Yes, you can overcome [almost] anything but there is a point where people don't. And with that business it was the first that I heavily admired and appreciated. If they were still running today, I would want to work for them. It would have been a dream job from my childhood. And while I didn't have a firsthand seat to it, I got to see that business fail.

So to me that is what Iron Concepts represents: that indomitable business model. It seems like you really have the bull by the horns. Everybody is willing to pay for what you can do. You're manufacturing even if the economy goes bad. One day you are building beautiful gates the next you drawing out plow points. But if anybody is willing to pay for anything it should be from a shop like that. There should always be a way for a shop like that to make money. But there is still a point where a business like that can fail. And that's something that means a lot to me. Every time that I talk about Iron Concepts, that's one thing that I think about.

So later on in my metalworking career, I did my apprenticeship. I traveled around to a few different shops. I ended up starting to dabble in more leadership positions as I gained more experience. Most of the time when you talk about blacksmithing in the blacksmithing community, you talk about ABANA (Artistic Blacksmithing Association of North America). And that's what I was exposed to up to the point where I was about 19 years old. I was just starting to get into my first management position. And I went to a NOMMA [National Ornamental and Miscellaneous Metals Association] trade show and that was mind-blowing just talking about the progression in the way I think about our trade. NOMMA was the same sort of step for me that seeing the Iron Concepts shop was.

So I went to NOMMA shows, one in Florida and one in Tennessee. I had no idea that you could approach metalworking and the business sense of metalworking in the way that a lot of these guys did. There is a big difference between ABANA, where you have people looking at what you can do with a piece of metal and how to perfect this particular technique, how to execute a particular technique, how to look cool or create something. Whereas with NOMMA, oh yeah

you can create something but they are building businesses. The lectures were around how to get around all the tax, liabilities, how you manage your business, how do you price jobs. And that was something that really spoke to me.

In this series that's something that I really want to focus on, not necessarily the ABANA side of blacksmithing. We have other videos where we will show you how to forge things and run cool techniques. And that's dear to me as well. But what I practice every day in my life right now is more how do you design things, how do you price them, how do you keep up with a schedule, how do you design something and then convey it to another person and three other people and 5 other people and get them all to work together to work on a single project. For me the first step was Iron Concepts, the second step was NOMMA, which again while it doesn't fully relate to the blacksmith's shop in general or the blacksmithing community necessarily, it was definitely a big step for me.

Just like with Iron Concepts, I was blown away when I first visited that shop and then later on I got to see it just crumble. Then with NOMMA, I saw a thriving organization with tradeshow and more of what that's about, people networking and throwing down money. Business owners that were trying to show each other up. Vendors that are coming up with new products and trying to sell to people that are actually in this organization. Everything from gate openers to ironworkers to paint suppliers to hardware vendors and all that sort of thing. It's this thriving organization and you look at what NOMMA is now. You may not know this but NOMMA has really struggled and that could be a topic all its own for one of these talks.

Our general organization, even though our trade is really scattered amongst a lot of different things, the blacksmithing community isn't necessarily centered in any one place. And for NOMMA, I know it is outside of what people who are interested in blacksmithing may look at. If you want to build railings, then that's the thing. But a lot has changed over the last 10 years and that's my point. And what I am trying to say, blacksmithing is definitely not what it was 100 years ago. Artistic blacksmithing is not what it was 10 or 15 years ago. What is blacksmithing? At what point do you call yourself a blacksmith or a metalworker or an ironworker. Do you call yourself an artist? There are a lot of things outside the core of what we do: heat up a piece of metal and beat the crap out of it, force that iron into the shape that you want it. There's a lot to blacksmithing in what I perceive is outside of that. And that's what I want to focus on. I want to tell you how to manipulate that iron, and we might talk about that some, but I want to talk about everything else surrounding that. The universe that surrounds the blacksmith shop from being an artistic business to being a brand, an individual, or a large company.

Going past NOMMA, one of my next big steps for me personally was managing one shop then moving to another one and managing that. I started spending more and more time not focused on the actual forging of iron but focused on how to design a piece, how to work with a customer, and also lead a team of artists to be able to produce that piece. And I know that there are probably only a handful of shops in the country that that really applies to but a lot of the concepts are there throughout our trade and a lot of other businesses too. So that's the sort of thing I want to discuss.

For me being a manager now, kind of keeping an eye on the shop and doing more design work, the idea of intellectualizing the problems that I have on a daily basis, and talking back and forth with the community. You may be a hobbyist watching this or you may be a professional blacksmith in a one-man shop or somebody who has laterally entered into blacksmithing as a hobbyist or not, who could relate better and possibly more on a professional level to the things I deal with on a regular basis and on a higher level than I do.

Feel free to leave your comments. This isn't a vlog where I am going to talk about what we do on a week-by-week basis at Big Blu or Oak Hill Ironworks. I don't want to show every little project we're working on and sure we will discuss some of that sort of thing. But more importantly, I want to talk about the problems I face on a regular basis, the solutions I come up with, and muse with you as the viewer through your comments and discussion. We kind of direct

what we talk about. And that's my thought in all of this. So if you have any comments, leave them in the YouTube video here. That's going to be our main outlet. And we don't want to monetize our YouTube account so it's super easy and free flowing until we get a million views, which is never going to happen. YouTube is easy for us and I spend a lot of time on iForgeIron and at some point, I may open a thread directly there. I've thought a lot about making that the blogspot I use on a regular basis. iForgeIron.com is a fantastic forum and I really like the particulars of all the power hammer stuff that goes on there. And if you have any suggestions as to places I should look, forums and that sort of thing, leave a comment here. So for now I'll check the YouTube comments and I plan on doing a video like this [every] week.

Next week, I'll go ahead and tell you what I'm focusing on since I've already decided, is to look at the cutting edge of blacksmithing. What is the cutting edge of blacksmithing? First off, that's a loaded question most definitely because our trade has been around for thousands and thousands of years so there's really not a cutting edge. But if there isn't or there is, where is it? That's the discussion for next week. So think about that, comment, subscribe if you want to follow, all that good stuff. I'll look for it. Thank you. I appreciate it. Talk to you next time.



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From the Shop of Samuel Yellin

Article by Doug Wilson, Photos provided by Clay Spencer

I received a CD of images from Clay Spencer. On that CD, were over 2000 photos of works from Samuel Yellin's shop. These had been taken in the early 1970s by Jeff Graves who was apparently working for a summer with George Dixon in the last days of the Samuel Yellin Metalworks shop. I will be sharing these photos in the coming issues of THE HOT IRON SPARKLE. The quality of the photos is not always the best. However, they are in many cases the only available documentation of Samuel Yellin pieces.









Quarter Corner

Metal of the Quarter: Cor Ten

The metal for this quarter is Cor Ten, also spelled Cor 10. Cor Ten is a trade name for a steel alloy material originally produced by United States Steel but is no longer produced under this name. Also known as weathering steel, Cor Ten is now called ASTM A242 or A588. Best known for its use as the material shipping containers are made of, Cor Ten has increased resistance to atmospheric corrosion when compared with other steels. Cor Ten resists the corrosive effects of rain, snow, ice, fog, and other meteorological conditions by forming a coating of dark brown oxidation over the metal, which inhibits deeper penetration and negates the need for painting and costly rust-prevention maintenance over the years. Basically, it rusts and the rust is the protective coating that halts future corrosion.

The main uses for Cor Ten include applications where rust is the final finish. There are football stadiums and entire buildings, like the John Deere World Headquarters, made out of Cor Ten but for the average blacksmith, sculpture is the main use. Since Cor Ten is an alloyed steel, it mainly contains iron with a carbon content of 0.12-0.16% but also silicon, manganese, phosphorus, sulfur, chromium, copper, nickel, and sometimes vanadium. Because of these alloys, Cor Ten has a higher yield, tensile, and endurance strength.

All of this being said, Cor Ten forges at the same temperatures as mild steel (the stuff you use everyday). If you are using Cor Ten in any type of structural capability, then welding can be a little harder but overall forging is the same.

So is it worth the extra cost? The internet says no. There are many stories of buildings, sculptures, and the like not withstanding the elements as adver-

tised. For instance, there is a sculpture at Cornell University that continually rusts and ruins the pavement. The Aloha Football Stadium in Hawaii rusted through. Cor Ten does not do as well in salty air as it will continually corrode instead of reaching its peak rust state.

In the end, the material you chose to use for your work is up to you and if you chose Cor Ten, then rust must be your favorite finish color.



Forged trellis and pergola created by Salmon Studios in MA



Sculpture by Pablo Picasso in Chicago



New River Gorge Bridge in West Virginia also made of Cor Ten

Tool of the Quarter: Hardy Hole

The tool for this quarter is the Hardy Hole. Almost every blacksmith has an anvil, not judging the guys using a piece of railroad to strike on, but do you know all the tools that can go in your Hardy hole? There are so many uses and I don't know them all either but I wanted to go over a few in this article.

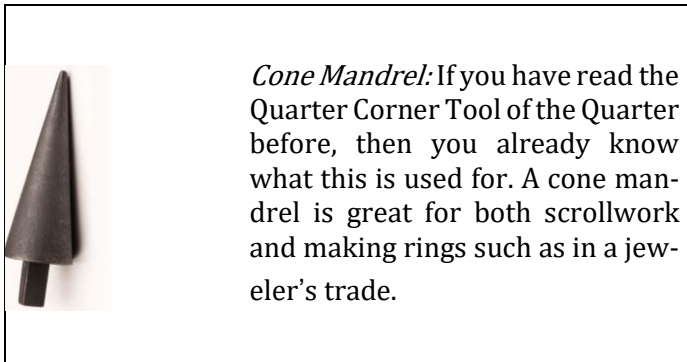


Hardy hole of an anvil



Hot Cut: This tool is probably the most frequently used Hardy hole tool. After it is in place, you lay a hot piece of stock across it and strike until you almost cut all the way through the piece. You do not want to strike your hot cut so do not hit it all the way! Use a set of tongs at the end to break the piece off the rest of the way. The hot cut is best when measuring accurately is not important.

	<p>Adjustable Bending Fork: Next up is this bending fork. Traditional blacksmithing work has a ton of scrolls and even if you do not do traditional work then I it is a sure bet that you are bending metal frequently. Use a bending fork to make general scrolls and curves in your work.</p>
	<p>Bowl Stake: This tool hits close to home for any blacksmiths that make a lot of ladles or leaves. Smaller and thus cheaper than a full swage block, these small bowl dies fit conveniently in the Hardy hole for any small stock.</p>
	<p>Mushroom Block: Almost the opposite of a bowl stake is this tool. A mushroom block is like having the horn of your anvil flipped up-side-down. This way you get a very large perfectly round striking surface to utilize.</p>
	<p>Top & Bottom Fuller: These tools are great for adding grooves to your work to move metal quicker. Note the difference between a fuller and a hot cut is that the hot cut is sharpened to almost a blade-edge while the fuller is rounded.</p>



Cone Mandrel: If you have read the Quarter Corner Tool of the Quarter before, then you already know what this is used for. A cone mandrel is great for both scrollwork and making rings such as in a jeweler's trade.



Bickern: Your eyes are not deceiving you on this one. Yes that is a mini-anvil, known as a bickern, that fits into the Hardy hole. You use small anvils for the small horn to make tiny scrolls and bends. You use a bickern instead of a small anvil because of the stability

provided by attaching it to your full-sized anvil. Note there is even extra room under the horn so you will not come close to hitting your knuckles on the anvil underneath.



Jig: This picture shows a blacksmith using a jig that fits into his Hardy hole. Again utilizing the stability of your anvil for even a simple jig is how the smart blacksmith's work.

These are just a few of the many tools that you can use in your Hardy hole. There are also clamps, swages, and many kinds of stakes with all manner of textures and radii. I hope you enjoyed another installment of tool of the quarter. Thanks!

Anvil Surfing Pic of the Quarter

As promised, here is a little bit of fun to end this issue. This picture comes via the Anvil Surfing Facebook page, courtesy of Big Blu Hammer in Morganton, NC. Pictured below is Andy Chapman and Andy Phillips riding the Big Blu power hammers, which do have an anvil on them. Then it's Andy & Andy paddling down the river with sledgehammers for paddles while riding an anvil. These pictures were taken over 6 years ago now but the Big Blu crew is still having fun today as evidenced at the first quarter meeting.

Thank you for all your submissions and please keep them coming. Now enjoy!





Calendar for 2 Quarters

April 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
					1	2
3	4	5 *	6	7	8	9
10 *	11	12	13	14	15	16 *
17	18	19 **	20	21	22	23 +^
24	25	26	27	28	29	30 ^

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

May 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
1	2	3 *	4	5	6	7
8	9	10	11	12	13	14

*						*
15	16	17 *	18	18	20	21 *^^
22	23	24	25	26	27	28
29	30	31				

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

June 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7 *	8	9	10	11
12 *	13	14	15	16	17	18 *
19	20	21 **	22	23	24	25 +
26	27	28	29	30		

5	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
10	Southern Foothills Blacksmiths <i> Mooresville, NC</i>
16	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
19	Brasstown Blacksmiths 5-8pm <i>Brasstown, NC</i>
19	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
23	Peter Ross's Shop 9am NCABANA Extra 2 nd Q Meeting <i>Siler City, NC</i>
23	Burlington Mini Makers Faire Demo <i>Burlington, NC</i>
30	Fire on the Mountain <i>Spruce Pine, NC</i>

3	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
8	Southern Foothills Blacksmiths <i> Mooresville, NC</i>
14	Triangle Blacksmiths Allan Green's Shop <i>Hillsborough, NC</i>
17	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
21	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
21	Hammerstock <i>Gum Spring, VA</i>
21	Cary Festival Demo <i>Cary, NC</i>

7	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
12	Southern Foothills Blacksmiths <i> Mooresville, NC</i>
18	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
21	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
21	Brasstown Blacksmiths <i>Brasstown, NC</i>

25	Dixie Classic Fairgrounds 9am NCABANA 2 nd Q Meeting <i>Winston Salem, NC</i>
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July 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
					1	2
3	4	5 *	6	7	8	9 *
10 *	11	12	13 ^	14 ^	15 ^	16 *^
17	18	19 *	20	21	22	23
24 /31	25	26	27	28	29	30

* Local Chapter Meeting
+ Statewide Meeting
^ Special Event

August 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
	1	2 *	3	4	5	6
7	8	9	10	11	12	13
14 *	15	16 **	17	18	19	20 *^
21	22	23	24	25	26	27 +
28	29	30	31			

* Local Chapter Meeting
+ Statewide Meeting
^ Special Event

September 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
				1	2	3
4	5	6 *	7	8	9	10 *
11 *	12	13	14	15	16	17 *
18	19	20	21	22	23	24

		*			^	^
25 ^	26	27	28	29	30 ^	

5	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
9	Triangle Blacksmiths <i>near Raleigh, NC</i>
10	Southern Foothills Blacksmiths <i>Mooreville, NC</i>
13 - 16	ABANA Conference <i>Salt Lake City, UT</i>
16	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
19	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>

2	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
14	Southern Foothills Blacksmiths <i>Mooreville, NC</i>
16	Brasstown Blacksmiths 5pm <i>Brasstown, NC</i>
16	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
20	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
20	Honeybee Festival <i>Kernersville, NC</i>
27	Blacksmith's Depot 9am NCABANA 3 rd Q Meeting <i>Candler, NC</i>

6	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
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10	Triangle Blacksmith Guild <i>Raleigh area</i>
11	Southern Foothills Blacksmiths <i>Mooreville, NC</i>
17	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
20	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
23- 25	Southern Ohio Forge & Anvil <i>Troy, OH</i>
30- 9	Dixie Classic Fair <i>Winston Salem, NC</i>

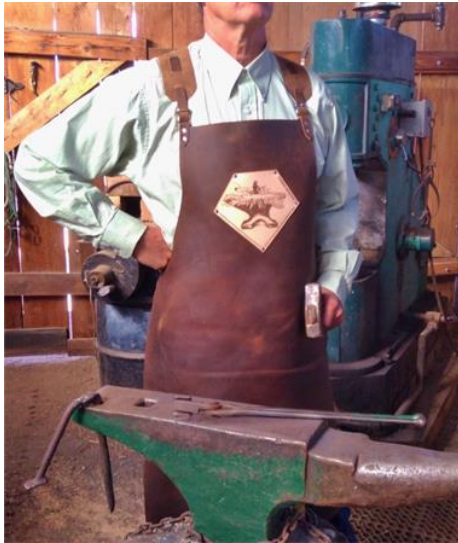
October 2016						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
						1 ^
2 ^	3 ^	4 *^	5 ^	6 ^	7 ^	8 ^
9 *^	10	11	12	13 ^	14 ^	15 *^
16 ^	17 ^	18 **^	19 ^	20 ^	21 ^	22 ^
23 ^	24	25	26	27	28	29
30	31					

* Local Chapter Meeting
+ Statewide Meeting
^ Special Event

30 -9	Dixie Classic Fair <i>Winston Salem, NC</i>
4	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
9	Southern Foothills Blacksmiths <i>Mooreville, NC</i>
13 - 23	NC State Fair <i>Raleigh, NC</i>
15	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
18	Brasstown Blacksmiths <i>Brasstown, NC</i>
18	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>

FORGE - APRONS

FORGE-APRONS are the stylish answer to protective leather aprons for blacksmiths. With seven different designs, we have an apron for everyone: the *Original* bib, a *Short* bib, the *Full-Cut* bib for greater chest coverage, the *Lap* apron, two sizes of *Kid's* aprons, a *Budget* apron and the *Flame* apron, a new limited edition design. If we don't have just what you are looking for, we happily customize an apron just for you!



Features:

- Stylish, functional logo pocket
- Distressed brown leather for that rustic, worn look
- Custom-size by adding additional width and/or length
- Personalize with your name or shop name on the logo
- Customize the logo pocket with your own logo or no logo
- Customize with three different pocket styles for lots of storage
- Smooth, full-grain leather in 5-6 oz. That's thicker than a nickel!
- Adjustable, crisscross shoulder straps with back anchor
- Fully removable strap system for easy replacement
- Wide shoulder pads to disburse apron weight
- Quick and easy one snap on and off
- Prices for full aprons start at \$95

www.Forge-Aprons.com (575) 313-4650

3rd Quarter Meeting at Blacksmith's Depot

Saturday, August 27th, 2016

Starts at 9am with lunch at noon

100 Daniel Ridge Rd.

Candler, NC



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MADE IN THE USA

Local Group Meetings

Triad Area Blacksmiths (Winston-Salem, NC)

Marshall Swaringen

marshall@swaringen.com (336) 998-7827

1st Tuesday at 6:30PM for demos

3rd Saturday at 9AM for business and all day forging

Dixie Fairgrounds, Winston Salem, NC

Southern Foothills Blacksmiths (Mooresville, NC)

Steve Barringer

steve@powerhammerschool.com (704) 660-1560

2nd Sunday each month

Triangle Blacksmith Guild (Raleigh - Durham, NC)

Randy Stoltz

rhstoltz@gmail.com (919) 481-9263

2nd Saturday in odd # months at various locations

Brasstown Blacksmiths (Brasstown, NC)

Paul Garrett

pgarrett286@gmail.com (704) 604-1777

3rd Tuesday in even # months; 5 to 8 PM

Wilkes Teaching Forge (WTF) (Millers Creek, NC)

Lyle Wheeler

ncchairmaker@gmail.com (336) 838-2284

3rd Tuesday of each month, 7:00 PM

Blue Ridge Student Blacksmith Guild (Flat Rock, NC)

John Matthews

john.knox.matthews@gmail.com (828) 645-2109

You are welcomed to attend any of the local group meetings. Please contact the host to confirm date, time and location.

NC ABANA Meetings

3rd Quarter 2016 – August 27

Blacksmith's Depot

Candler, NC

4th Quarter Extra 2016 – November 4-5

John C. Campbell Folk School

Brasstown, NC

4th Quarter 2016 – December 3

Roger Barbour's Shop

Clayton, NC

Other Events

ABANA Conference

Salt Lake City, UT

July 13-16th, 2016

Honeybee Festival

Kernersville, NC

August 20th, 2016

Dixie Classic Fair

Winston Salem, NC

September 30th – October 9th, 2016

NC State Fair

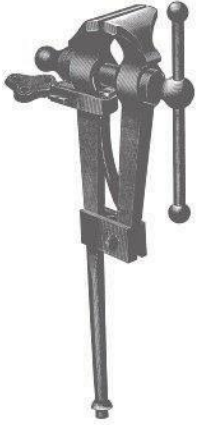
Raleigh, NC

October 13-23rd, 2016

For the most current meeting and event information go to the NC ABANA website,

www.ncabana.org

North Carolina Artist-Blacksmith's Association of North America



THE HOT IRON SPARKLE
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**Third Quarter
Meeting
of NC ABANA
August 27th, 2016
Blacksmith's Depot
Candler, NC**

**Morning Demo: John Gruber
Afternoon Demo: Doc Cudd**