

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 164 September 2013



Passion Flowers by Roger LaBrash
at the Arboretum at Flagstaff

President's Message:

Some thoughts on process vs. product: Lately I have been listening closely to the comments and discussions by both members and guests about the content of the demos. They seem to be divided into two camps; those want to see the demonstrator “make something”, and those who are more interested in the “process” or technique. During the next few months we will have several extremely talented smiths as demonstrators. Some will focus on showing you how they go about making a finished piece. Others focus on the process including the design concept and the execution of specific techniques. After years of arranging demonstrators and outside presenters I have a great appreciation for the well prepared presenter. Nothing beats watching someone who is so well practiced that their performance can be compared to a cooking show where a five course meal is prepared in 30 minutes or less. At the same time much can be learned by paying careful attention to the process oriented demonstrator. They often perform the critical steps with such subtlety you can miss it if you blink. Given the variety of experience and background of our members and guests, we will probably never satisfy everyone. Meanwhile don’t hesitate to let me or the board members know what you think of our demonstrations. Finally, thank you to Cathi Borthwick and Denise Edwards for organizing the July demo in Flagstaff. Although the turnout was light those who were able to make it saw a great demo. I understand that there have been some significant improvements to the facilities.

Last time I reminded you about the upcoming auction. The date has been set, so, at the risk of sounding like your mother (in-law), get out there and make something.

Safe and productive forging,

Doug Kluender

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Demo: September 21 & 22 At Bill and Karen Morris' in Camp Verde

Demonstrator: Adrian Legge

Read Adrian's bio on the next page.

Registration begins at 8:00 AM, the demonstration starts at 9:00 AM.
Registration fees: \$10 Members, \$15 Non-members

- * Camping can be accommodated.
- * Lunch is on your own.
- * Tailgating is encouraged.
- * Bring something for the show-and-tell table.

Plenty of space is available for tent camping and limited space is available for dry RV camping. The Zane Grey RV Park is approximately 6 miles east on highway 260, and there are several motels nearby.

Lunch on Saturday will be on your own. There are several restaurants and fast food places in the area.

On Saturday night Bill and Karen will host a bring-your-own-meat/fish-veggie burger and alcoholic beverage BBQ. Tossed salad, beans, coffee, soda, water, dessert, and music will be supplied. On Sunday morning, coffee will be available, but breakfast will be on your own.

There are numerous places of interest in the Camp Verde area including Pieh Tool, Ft. Verde Stat Park, Montezuma's Castle, Montezuma;s Well, and the Cliff Castle Casino. Sedona and the Red Rocks are approximately 40 minutes away . On Saturday from 8 am to 12 noon the Verde Valley Farmer's Market takes place in downtown Camp Verde.

Remember Iron in the Hat

Thanks to all of you who have participated in Iron in the Hat. By purchasing tickets and donating items, you help support AABA events and projects. Items for donation can be a tool, piece of art, something you don't need in your shop, a great book, t-shirt, hat ... something an AABA member would enjoy.

Directions to Bill & Karen Morris':

195 W. Fort McDowell Pl, Camp Verde, AZ

I-17 north (from Phoenix) or south (from Flagstaff)
to General Crook Trail, Exit 285

Turn right at the stop sign.

At the next stop sign turn right onto east 260.

Continue across the Verde River bridge.

Turn right on Quarterhorse Lane (first right east of
the bridge.

Go about 1/2 mile to Fr. Apache.

Turn right on Ft. Apache.

Turn left on Ft. McDowell (first street on the left)

to 195 which is the white house with maroon trim on
the left after the road curves.

As always, safety glasses are required.

Adrian Legge

Our September Demonstrator



I started in the 70's as an apprentice with my father Tom as a Blacksmithing and Farrier. I eventually took over the business, training three apprentices along the way. In the late 80's I started teaching Blacksmithing at Herefordshire College of Technology as well as continuing to run my own forge. I have been involved in the writing of blacksmithing courses for national qualifications. I am a member and past secretary of the British Artist Blacksmith Association, I am also a Liveryman and national judge for the Worshipful Company of Blacksmiths. Blacksmithing is my main hobby as well as my profession, and I couldn't really imagine doing anything else.

As an originally craft trained Blacksmith by the traditional and now largely redundant apprenticeship route, I have come to realise that whilst the craft skills involved in making objects well are a central aspect of it's qualitative appreciation, a far more important component is the idea and how well it is communicated through the finished work. The 'How did you do that' question will always be there within the technical aspects of forge work, and whilst I enjoy the challenge of gaining technical competence and believe that quality craftsmanship should be at the core of what we do, the much more interesting aspect (at least to me) is the 'How and why did you come up with that idea?'

My own work, particularly over the last 20 years or so that I have been involved with full time teaching, has been somewhat sporadic, so when I was asked to answer the question of the importance of design within my work it was quite difficult because it has changed over the years – taking on greater significance as time has gone on. In the early stages of making anything design as a process pretty much like the techniques involved in forging metal. Certainly in the beginning having some sort of structure to work to is important. After a while we all develop a personal approach that works for us as individuals. Mine is based on the importance of having a resource of rich and varied visual information. Without something concrete to inform my appreciation of composition, form, surface etc, then I find it extremely difficult to generate anything of any value. As soon as I've got an idea, I find the rest of the journey easier although deciding on which ideas are best to pursue is a constant challenge. Being more visual and tactile in my work than conceptual has tended to mean that I gravitate to in the making of functional pieces more than sculptural. I love the immediacy of the process of moving hot metal around and the limited time to make decisions. I find that just working with hot forged metals and ways of manipulating them will lead me into a new area of experiment, discovery and creativity that often takes me on a different journey to my original intent.

July Demo Report: Flagstaff

By Reese Martin

One of my favorite aspects of blacksmithing is the sense of community involved, especially through the AABA. This is why I really enjoy any time I attend a demo and the Flagstaff event in July was a perfect example. The weather was ideal and Pioneer Museum a beautiful venue to gather under the pines and learn new ideas and techniques from a couple of great ladies.

Denise Edwards was first up showing the small horse heads she uses for her wire form sculptures. The heads capture the true character of the animals she obviously has great affinity for. She splits and draws out the ears, then necks down the mid section, folds it in half and welds it together to create the muzzle and the mass for the jaw. She continues to refine the shape and add in the details. She also showed how she makes the legs by upsetting both ends of a short piece of round bar then picking the end to shape into a hoof and the other the knee. She also talked about leaves and made an aspen leaf to show how she does it. You can see more of her work at www.coyoteforging.net.

Cathi Borthwick was up next showing some interesting leaf and sculptural details with a beautiful organic look to them. She passed around several samples that had a finished leaf as well as a couple of progression pieces as well. I appreciate that kind of effort to show not only the destination but the path toward achieving it. It helps me as a beginner to see what the parent stock is and the stages toward the final result. She showed a simple jig to attach the all-thread connectors she uses for cabinet pulls. Several of us commented on the spring loaded hold down she has on the heel of her anvil. It is simple to

use and works very effectively.

After lunch it was Len's turn for Iron in the Hat with about a dozen items available and then on to Cathi's two dimensional animal heads with her passing around a couple as bottle openers and belt buckles. She made both an eagle head and a fish to round off the demonstration for us. Cathi's work can be seen at www.flagforge.com

The rest of the afternoon was dedicated to letting those interested have a turn at the anvil. Thanks to Bill Morris and Paul Diefenderfer for setting up stations. Paul brought a nice old riveting forge that Matt from Flagstaff used to try his hand at a birch seedpod. Matt had his family there and is in the process of setting up his shop, just needing to finish making a gas forge. Denise and Cathi were helping nine year old Brady and his mom Jennifer who both seemed to be enjoying the forging experience along with dad who got some time in as well.

Wade Smith had a couple of his large flowers including the stainless beauty from the cover of the July 2013 newsletter that stands about six feet tall and a copper tabletop flower about two feet tall. There also were laminated blanks that looked to be copper and brass with several bowls made from them.

Once again there was camaraderie among the attendees who all seemed to enjoy a day well spent among like-minded people. I encourage everyone to make the effort to attend these events whenever possible to keep our vibrant group going.



Setting up at the Pioneer History Museum in Flagstaff

July Demo Report: Flagstaff (cont.)



*Our demonstrators.
Cathi Borthwick (left) and Denise Edwards.*



Partially complete horse head by Denise.



*One of Cathi's story rings (progression piece)
(photo: David Brindenbaugh)*



Cathi's spring-loaded hold-down



Hands-on workshop in the afternoon

July Demo Report: Flagstaff (cont.)

Tips from other forges

One of the fun things about doing a demo is that you get a chance to learn as well as teach. Here are a couple of things I learned from the recent demo in Flagstaff.

1. I was showing how to make a fish bottle opener and mentioned that it was a good way to take advantage of the natural tendency of flat stock to want to make “fish lips” on the end of the bar when you try to taper along the long dimension. Everyone could relate to that! However, later Len Ledet shared a tip to avoid getting “fish lips”. He said to do your taper with about 1/4” or so of the bar held over the far edge of the anvil, keeping it from being hit. After you have mostly completed your taper, go back and hit that bit you had isolated previously and the “fish lips” never get a chance to develop. I did a quick test of this back in my shop and it appeared to work pretty well. Sweet!

2. I also showed a way to make a leaf with serrated edges such a rose leaf. I do this by forging the leaf, chiseling in the veins, and then using a file run along the chiseled lines and digging in at the edges to create a nice serrated edge. Ira Wiensensfeld later told me he gets the same effect by forging the leaves from an old bolt and the threads make a nice serrated edge on the leaf. I have not tried this but it certainly makes sense.

Cathi Borthwick

Show and Tell at Flagstaff



Mokume-Gane items by Jay Burnham-Kidwell



Sarah Harms



Wade Smith

*Jay Burnham-Kidwell
brought this tiny Little Giant*



Botanical Blacksmiths At the Arboretum at Flagstaff Meet the Artists Reception Sunday morning

The reception Sunday morning went very well. Several visitors to the Arboretum stopped to look and to visit. Cathi Borthwick reported that at least two large pieces were sold on Sunday: Ira's Wrought Iron Botanical Form and her Black Forest Birdbath. Smaller pieces that were sold on Sunday included a steak flippers by Grizz and some of Denise Edwards' turtles. [Ed. note: I don't have good photos of all of the pieces that were sold.]



Reception area and sales table for small items.



"Dragon" by Roger LaBrash



"Black Forst Birdbath" by Cathi Borthwick (Photo by Kenneth A. Walters.)



"Mystic" by Roger LaBrash



"Best Friends Memorial Gate" by Denise Edwards



"Best Friends Memorial Gate" detail



"Ginkgo Leaf Study" and "Calla Lily Study" by Ira Wiesenfeld



"Poppies Birdbath" by Cathi Borthwick

CALENDAR 2013

September 8	Open Forge	Desert Rat Forge	Cave Creek
September 21 & 22	Demo, Adrian Legg	Bill and Karen Morris	Camp Verde
October 5	Open Forge	Holy Hammer Ironworks	Tucson
October 13	Open Forge	Desert Rat Forge	Cave Creek
November 9	Demo, Mark Aspery	Presidio San Agustin	Tucson
November 10 - 11	Workshop, Mark Aspery	Holy Hammer Ironworks	Tucson
December 7	AABA Auction	Sahuaro Ranch	Glendale

Little Giant

Little Giant is changing ownership, effective immediately. In order to perpetuate the line of replacement parts, repair services and information, Little Giant will now be in the extremely capable hands of our machinist, Roger Rice. He will be assisted by our friend David Sloan, who has a great understanding of the mechanical operation of Little Giants. We will be assisting Roger and Dave during the initial transition, and Sid will continue teaching the annual Little Giant rebuilding class. The same telephone number (402-873-6603) and email address (lgiant@windstream.net) will move to the new location at Midwest Machine, 6414 King Road, Nebraska City, Nebraska 68410.

It has been a great 22 years, and we are profoundly grateful to have been a part of the blacksmithing community. We have often said we have the best customers in the world, and we do mean it. It has been an honor to not only help keep these venerable machines in operation, but to have made so many good friends in the process.

With sincere appreciation,
Sid Suedmeier and Keri Hincker

Pieh Tool Blacksmithing Classes

Beginning/Intermediate Classes with Gordon Williams

Schedule for the rest of 2013:

Sept, 27-29, 2013

Oct. 25 - 27, 2013

Nov. 22 - 24, 2013

Dec. 13 - 15, 2013

\$455 for three days of classes at Pieh Tool in Campe Verde. For complete details call 928-554-0700 or browse to www.piehtool.com.

Coal Order

Michael Sobrado is putting together a bulk coal order, and he is looking for members who are interested in getting in on it. This will be large chunk coal from the mine near Durango Colorado. He has tried it and reports that it is very nice to forge with.

Please email Michael Sobrado at dragonforge1@cox.net with your contact information and how much coal you would be interested in purchasing. If you have called or emailed previously please email once more with "AABA Bulk Coal Purchase" in your subject line and include your contact information.

Bagging and breaking up into smaller pieces will be available for an extra fee. We are trying to get the pricing under \$20 for 50lbs including shipping to Mesa, AZ.

MCC Blacksmithing & Welding

The Mesa Community College blacksmithing program is one of the best deals around - over 60 hours of instruction for just under \$450 and that includes material and propane! Saturday (Jaime Escobedo instructor) and evening classes (Dan Jennings instructor) are available. Blacksmithing is WLD 103.

TIG, MIG, Arc, Gas, and Art classes are all available, as is certification in any of those welding methods at Mesa Community College, Southern and Dobson in Mesa.

You should be able to sign up for spring 2014 classes now. For more info go to:
www.mesacc.edu

If you try to register for any Welding Department classes on line, you might find all classes are closed (full). Contact Dan at danshammer@cox.net with the class number (time and days) of the class you'd like to take - I'll get an override number so you can sign up.

AABA Website: www.az-blacksmiths.org

Open Forge: Tucson

Harold Hilborn will host an open forge on Saturday October 5 from 9 am until noon. Questions, comments or suggestions? Contact Harold at:
Holy Hammer Ironworks,
%Tuller School, 5870 E 14 St., Tucson
520-603-6723 or hhiborn@aol.com

Open Forge: Desert Rat Forge

Paul Diefenderfer will host an open forge on the second Sunday of each month (including summer months) from 9 am to noon, followed by lunch (You gotta' buy your own.) at the world famous Big Earls Greasy Eats in Cave Creek. Desert Rat Forge is at: 40218 N. 78th St. Cave Creek. 602-509-1543 or dief@phoenixrockgym.com

Directions: From the center of Cave Creek (the 4-way stop at Cave Creek Rd & School House Rd.) head north on School House 1.5 miles to Highland Rd. (If you get to the 4-way stop at Fleming Springs you have gone a tad too far.) Turn right (east) on Highland. After about 1 mile the pavement ends. Keep going on the gravel road until the pavement starts up again. Turn right through the stone walls down a paved driveway. You are there!

If You Are Attending An Open Forge...

You might not be aware but this, but these events are not funded by the AABA . They are hosted by our members for all of our benefit. So if you participate in forging ,welding, use shop materials, or accidentally damaged something. Please offer do donate to help out or help with the cost of replacing a item. Thank you! From all of your open forge hosts.

Deadline: October 1

for the November issue of the Anvil's Horn.

Send stuff by email to:
editor@azblacksmiths.org

or by regular mail to:
Bill Ganoe
PO Box 40233
Tucson, AZ 85717

AABA New Member and Membership Renewal Form

Name _____
Address _____
City _____ State _____ Zip _____
Phone _____ Email _____
Professional blacksmith _____ Hobbyist _____ Farrier _____ Blade smith _____
Your main blacksmithing interest _____
Occupation or skill _____
Please check one:
Regular membership (\$30) _____
Family membership (\$35) _____

Mail to: Terry Porter
2310 E. Melrose St.
Gilbert, AZ 85297

Make Check Payable to AABA

AABA on the Road

From Len Ledet
Photos: Len Ledet

We visited Ferndale California in early July. Ferndale is the home of the Blacksmith Shop and Blacksmith Museum. Joe Koches owns both places. He has done much for the blacksmith community and individual blacksmiths over the years. The works on display at both places is really outstanding. We visited Ferndale in early July and stopped in to see Joe. Joe has some of Maurice "Mo" Hamburger's work on display. Mo has been dealing with Joe for many years. During the visit I called Mo and put him on the phone with Joe. Joe also has some of Sarah Harms' jewelry on display.



Joe Koches (left) and Len Ledet in the Blacksmith Shop.



Making Lemonade

By Cathi Borthwick

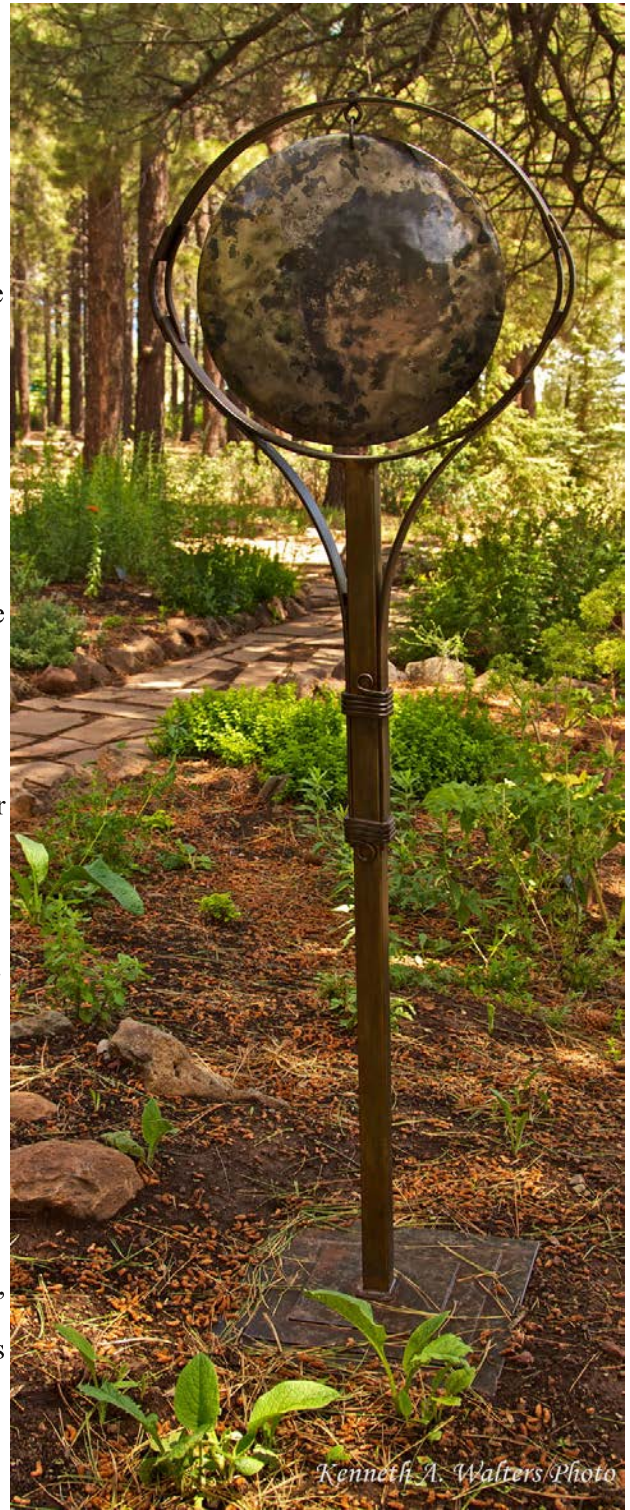
Photo by Kenneth A Walters

It all started with a trip to Arches National Park. I went up there with some friends from Flagstaff for a weekend of camping and hiking. It was a great weekend and, before heading home on Sunday, we stopped at a park in Moab for a picnic lunch. In this park was an area filled with outdoor instruments – xylophones, steel drums, bells, cymbals – all waiting to be played! It was a lot of fun flitting from instrument to instrument and it got me thinking – this might be a fun thing to make for the Botanical Blacksmiths exhibit.

I had an idea for the design and at first thought I would make a xylophone but quickly realized I didn't have a clue how to pull that off. Making a gong seemed like a much more achievable objective. I already had a circular piece of sheet steel that I thought was a good size so I made the framework for it and forged the circle into a domed disk. Unfortunately, when I went to ring it I discovered it had a very tinny and not very pleasing tone. Even accounting for the fact that I was holding it between my fingers which tends to deaden the sound, it didn't sound great. I thought I needed a thicker piece of metal so I bought a thicker circle of steel. Getting a bit smarter, I decided to test it for sound before doing any forging and, if anything, it sounded worse. Thinking perhaps I was being too critical, I tried out the two pieces on several people and the looks on their faces told me I hadn't underestimated the quality of the tones!

Great! Now I had a bunch of time invested in this nice framework and a gong that wasn't. In my mind I tried coming up with alternative ways to save this project. But mostly it just stood there mocking me every morning when I opened the door to my shop. And, in the meantime, we were in the midst of a very trying Spring in the high country. It was hot (I know, I know – but it was hot for us) and windy! The wind was relentless. I could hear it whipping by the shop, rattling the windows, and pummeling the walls. We are used to a bit of wind up here but this was way more than we were used to. It went on day after day and there was no way you could spend any time outdoors.

It was getting to me and, finally, one day, I thought, "I have had enough. I HATE this wind." Well, that didn't change anything. Then, looking at my sculpture in waiting, I had an ah-ha moment. I couldn't fight the wind but I could use it. I created a pivot system to attach the disk to the frame. I now had a kinetic sculpture that could use the wind to capture light and movement. I had made some lemonade.



2013 AABA Annual Auction and Banquet

Our annual auction and banquet is fast approaching, but the date has changed and is now on Saturday December 7th. It will be held at Sahuaro Ranch as usual with the main course being cooked by our own members and you guys will bring a side dish pot luck style. Look for the registration card in the next newsletter to order your main dish.

Don't forget to bring a forged item to donate to the auction as well! No matter what your skill level, your items will be appreciated. If all you can make is a key chain or a bottle opener, we want it. But if you are willing to make a table or a mirror frame, we won't refuse it either. All of your donated items will be auctioned off to raise money to help fund and offset the costs of the great demonstrators that we are having at some of the bimonthly demos over the next year.

Also, we are not looking for just forged knickknacks and furniture for our auction. If you happen to have some extra tools that you're not using or maybe they need a little fixing up, bring them with you. This is your chance to unload these heavy burdens and let someone who really needs them take them home.

As always, we still need help with this year's auction and banquet dinner. We need help with everything from planning to cooking the food. We will also need your help with equipment for cooking as well as portable heaters in case it gets a little chilly. If you need something to do or you have something to offer contact Jason and he'll get you working.

You can call Jason at 602-717-1459 or email him at jason@grizzlyiron.com.



One of the vessels that Maurice Hamberger made for the 2011 Auction. (photo by Wally Warnke)



Terry Porter contributed this wizard bottle opener for the 2011 Auction. (photo by Wally Warnke)



Dan Jennings contributed this table which was voted Best of Class in the Advanced Division and also received the People's Choice Award at the 2011 Auction. (photo by Wally Warnke)

Call To Artists

For artists living in Coconino, Yavapai, or Navajo Counties from Cathi Borthwick

Applications are now available for the 13th Annual It's Elemental Fine Craft Exhibit and Craft Fair (2 events, 2 applications) at the Coconino Center for the Arts in Flagstaff. The exhibit runs from Nov 19-Dec 20 and the craft fair is the first weekend in December. Both events showcase fine craft in a variety of mediums and you can apply for one or both events. This year one of the jurors is none other than our own Brian Hughes, so you know there will be someone who knows good ironwork looking at your work! Application can be downloaded from the website ***culturalpartners.org*** and some will be available at the September demo in Camp Verde. Application deadline is October 4.

For all AABA members from Cathi Borthwick

We are working with the folks at Tohono Chul in Tucson to host an outdoor ironwork exhibit such as we've done the last two years at The Arboretum of Flagstaff. It looks like the exhibit will take place in early 2014. More details will be available soon but, in the meantime, be thinking of what you could make for this exhibit. It would be wonderful to get a lot of members participating in this event as it offers a great chance to introduce the public to individual blacksmiths and to AABA.

Gallery



*Railroad spike hatchet.
by David Brindbaugh*

I recently finished this hatchet made with a railroad spike. I cheated when slitting the RR spike for the handle by drilling a few 1/8 holes with the drill press first. A wedge was made of 1/2" thick mild steel to form the hole after slitting. I ground the wedge to a smooth taper and rounded the corners off. It was about 4" long and a little under 2" wide after grinding.

The oak handle is 2 inches wide and carved using a small handplane and spokeshave. These tools are not normally found in a blacksmith shop but woodworkers have used them for many years. A small steel wedge and Sika Bond Construction Adhesive was used to bed the handle into the head.

Tong Clips

Idea demonstrated by: Tom Clark

Procedure & Drawings by: Ray Robinson

Stock Used: 1/4" Round

Tools Used: Hammer, Tongs, Hardy cut



Using approximately 4" of stock, heat and bend over the edge of the anvil.



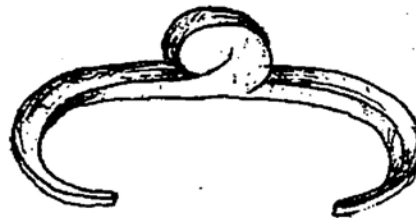
Close into tight loop (no hole in the middle) using the edge of the anvil.



Forge weld the loop and square up the remaining stock.



Cut each end to the desired length. With loop flat on the anvil, forge a taper and round over the end on the tip of the horn to fit the rein of the tongs.



Optional is achieved by the same process except place loop vertically when forging the tapers and rounding ends.

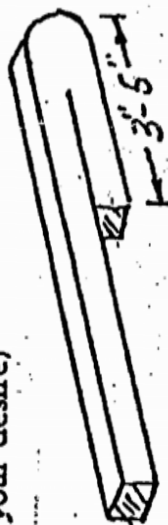


Try these clips — they are quick & great to use without discomfort to your tong hand.

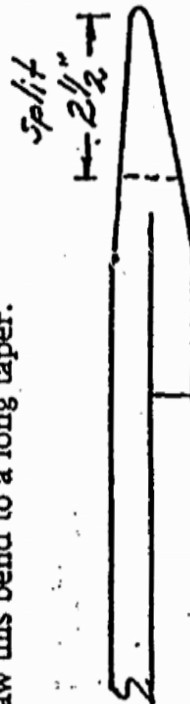
SEPTEMBER 1996

AN OPEN CROSS by Russell O'Dell

Using a length of 1/2" square bar, fold back about 5 inches on the bar. (This amount can vary according to your desire)

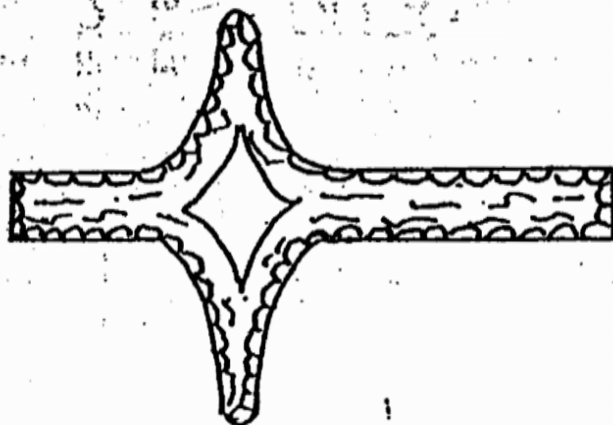


Next, draw this bend to a long taper.



Then with hacksaw, bandsaw or hot cut, split this taper about 2 1/2". (The length of split depends on the desired opening.)

Now, open up the split portion first, then open up the bend. You should have something like that shown in sketch.



Variation on a split (open) cross.

Reprinted from *The Hammer & Tong* (newsletter of the Blacksmith Guild of Central Maryland), December 1997

Classifieds

Classified ads are free to members and can be submitted by email to: editor@azblacksmiths.org

David Norrie Blacksmithing School offers several different classes that focus on forging with intention, to beginners, novices, and professionals. We have a dedicated classroom space as well as 3,000 sq. ft. of shop area. Most classes are 2 1/2 day weekend workshops, and the intensive custom-designed classes are 1 week long.

We also offer simple accommodations on my property for people traveling to take the classes.

David Norrie, 303-859-0770
www.forgewithintention.com

Post Vise (antique)
6" wide jaws mounted on a heavy flywheel stand \$350.
T shape, blade anvil blank. 3" wide, 14" high, 24" long, AR500 (50 Rockwell), w/ stand \$250.

Dan Jennings, 480-510-3569

Will buy your unwanted blacksmith or horseshoeing tools and supplies.

Call Barry Denton, 928-442-3290
any day before 7:00 pm.

Old Cedar Forge Ready to Sell

For health reasons, it is time to sell much (but not all) of my equipment, tools, and miscellaneous: 125# Beaudry power hammer, 88# Striker power hammer, tools, anvils (125# to 550#), post vises, tongs, spring swedges, hardies and more. Table upon table is laid out and ready for sale. Please don't just drop by the shop; I want to be here when you arrive. Call 360.275.6769 so I know when to expect you.

Jerry Culberson
Blacksmith, Old Cedar Forge.
oldcedarforge@wavecable.com

Wanted:

Hydraulic forging press. Tumbler, about the size of a 50 gallon drum.

Ira 520-742-5274
treeira@hotmail.com

Picture Rock Arizona Sierra Banded Sandstone

makes the perfect base for all your forged iron pieces. Awards, plaques, memorials, water features, furniture or anything you can imagine.

Mined in northeastern Arizona, cut and shaped to your specifications.

Contact AABA member:
Terry Horne
500 E. 38th Ave.
Apache Junction, AZ 85719
602-672-7085
www.arrowzonastoneworks.com

Sources

Tucson Iron and Metal

Steel, aluminum, stainless, copper and brass for sale by the pound. Open Monday - Friday 8 - 4:30. Also 1st and 3rd Saturdays 6:30 - 8 am. specifically for metal artists.
690 E. 36th St., Tucson, 520-884-1554

Bar U Bar Supply

Several 65 lb. & 85 lb. swage blocks for sale. Your source for anvils, post vises, and other new & used blacksmith tools. Barry Denton. ph 928-442-3290
email: barubarranch@gmail.com
website: www.barubar.com

A Copper Rose Metal Art

Chasing/Repousse Pitch
Debra Montgomery
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*Bottle opener by Cathi Borthwick at the July demo in Flagstaff.
(Photo: David Brindenbaugh)*