

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 206 September 2020



The punch and tongs made by George Witzke, our July demonstrator, in his virtual demonstration.

President's Message

Hey everyone! I'm not sure about you, but this year seems to have flown by and it's been so long since most of us have seen each other in person. Unfortunately, we were able to make the July demo happen but please go check out our virtual demo that George filmed at his home shop. Even though we can't meet in person, we're hoping to still be able to bring value to your membership through these virtual demos. Steve Miller has been working hard to organize more of these so keep watching for them.

I would normally have a little more to say, but I'm sure you've heard enough encouraging messages lately so will just say, don't stop doing the things you want to do. Hopefully, you are still getting some time at the anvil and you are still creating and expanding your abilities. Always be conscious of safety as well and we will get to enjoy many more years of forging!

Keep on forging!

Jason LaBrash

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Demonstration: September 2020

A virtual demonstration
A link will be posted on the AABA website.

Demonstrator: Matt Marzolf

Matt will demonstrate making a camp fire grill including the tripod, the grill, and the trammel.



Interesting Web Links

Cleft weld: Forge welding demo by Filip Ponseele
About 15 minutes

<https://tinyurl.com/y2fojlp6>

<https://preview.tinyurl.com/y2fojlp6>

July Demo Report

Bill Ganoe

Photos: screen shots from the video

The pandemic is still with us, so we had to cancel the in-person demonstration for July, but our demonstrator, George Witzke, did a virtual demonstration. George's wife, April, did a great job running the camera to record a video that is a little over 2 hours. This video is very well done, and these a lot of information packed into those 2 hours. The video is on youtube.com, and there is a link straight to the video on the AABA web site, www.azblacksmiths.org.

While we didn't have the usual in-person demo with registration fee and Iron In The Hat in July, it still cost AABA money for the demonstrator's fee, materials, and video equipment. If you watch the video and find it useful, please send a donation to AABA. \$10.00 is suggested. There is a link for these donations on the AABA website.

In this video George demonstrated making three different tongs: a pair of fairly common bolt tongs, a similar pair of tongs using an approach developed by Joey van der Steeg, and finally a pair of 3/4" box-jaw tongs. George gave excellent explanations at each step needed to make each of these tongs. He explained what you need to do, why you need to do it this way, and why you shouldn't do it that way. Even so, I was disappointed that the tong making

workshop in Flagstaff that was to have been led by George after the demo had to be canceled. I am sure there were many little details that viewers may have missed in the demo video that could have been worked out in a hands-on workshop.

George began his demo by making a punch from S7 steel to punch and drift the rivet holes in the tongs, then he explained why he prefers to use plain old hot-rolled steel for tongs instead of fancy alloy steels. He started work by notching the raw stock (1" x 10" x 5/16" flat rod) and explaining how varying the distance between those notches would affect the final product. He then showed a tool and technique for making those notches for people with less-than-perfect hammer control.

He continued with a detailed demonstration of making the "V" in the bits and then punching the rivet holes. Later, he offered great, detailed advice for punching in general at about 43 minutes into the video. The advice and techniques just keep coming throughout the video. I urge you to watch this video - and to make a donation to AABA, so we can continue to provide resources such as this video as well as in-person demonstrations, workshops, and meetings when the pandemic fades away or, at least, subsides.



George Witzke



Initial shaping of the jaws



Partially completed demonstration pieces



Using a blunt punch to accurately direct hammer blows

Botanical Blacksmiths and Friends 2020

Bill Ganoe and Cathi Borthwick

Photos by Cathi Borthwick unless otherwise noted

In spite of all the pandemic restrictions we are dealing with this year, the Arboretum at Flagstaff is open and, among other things, hosting the Botanical Blacksmiths and Friends 2020 show. Again this year, Cathi Borthwick organized the show in collaboration with the staff at the Arboretum. Six AABA members contributed pieces to the show: David Bridenbaugh, Cathi Borthwick, Liz Carlier, Denise Edwards, Steve Miller, and Ira Wiesenfeld. The exhibit includes 28 pieces. We have already had seven sales as of August 1.

The exhibit opened to the public on May 23 and will close on September 13. It is an interesting year in many ways. We had a very good winter with plenty of moisture, so the gardens look good. To accommodate CDC guidelines, The Arboretum decided to just open the grounds to visitors and keep all the buildings closed. They ask that you maintain social distancing etc. but you are free to wander and bring your dogs. Admission is free to botanical garden members or by donation. (The Arboretum has suggested donations of \$5 per person and \$3 per dog.) Because people are looking for things to do, it appears that visitation is actually up (or at least on par) compared to other years.

The Arboretum is publicizing the show on their web site, and, if you can't get to Flagstaff before the middle of September, you can take a virtual tour at: <https://thearb.org/product-category/botanical-blacksmiths/> The show has also gotten additional publicity when Arizona Highways filmed a show on The Arboretum a couple of weeks ago. That video includes an interview with Cathi Borthwick describing the Botanical Blacksmiths show. That video is expected to be up on Arizona Highways TV (https://www.azfamily.com/shows/arizona_highways_tv/) in mid to late August. It is also supposed to air on some Phoenix TV stations plus a streaming service or two and on youtube.com. It may also appear as a segment in the CNN feed at Sky Harbor, so we may get some serious publicity this year.

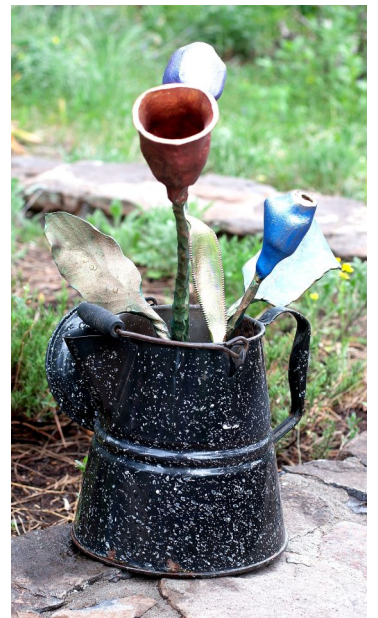
Here is a sampling of the pieces made by AABA members in the show this year.



Adonis
Liz Carlier



Call of the Garden
Cathi Borthwick

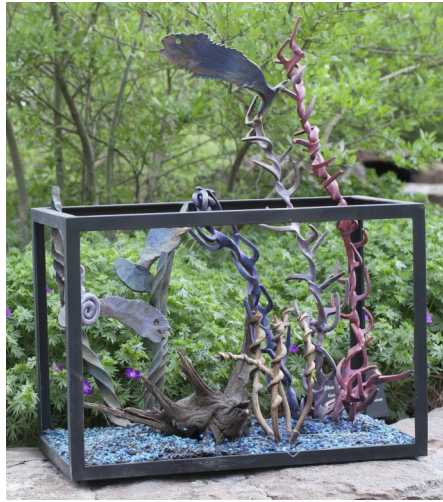


Boquet in a Coffee Pot
Ira Wiesenfeld

Botanical Blacksmiths and Friends 2020 (cont.)



Free-form bird bath
Cathi Borthwick



Irrationally Exuberant Fish Tank
Ira Wiesenfeld



Nada
Liz Carlier



Pineapple Plant
Ira Wiesenfeld



Totem
Liz Carlier



Toadstool Heaven
Denise Edwards



When Mother Earth Said Enough
Denise Edwards

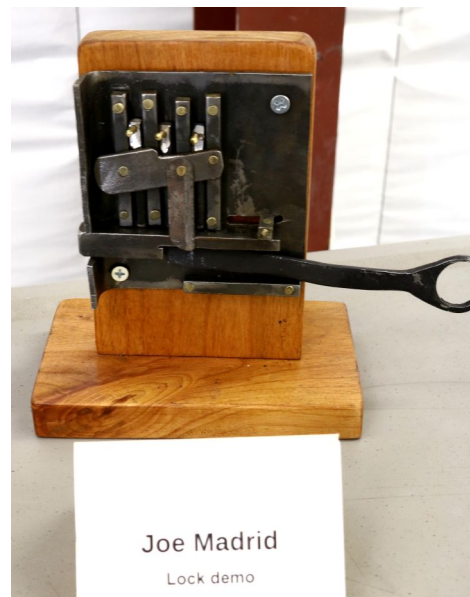


Cinderella
Steve Miller
(Photo by Steve Miller)

Seeds of Creativity



Brooch
Beth Holmberg
(Photo © Beth Holmberg)

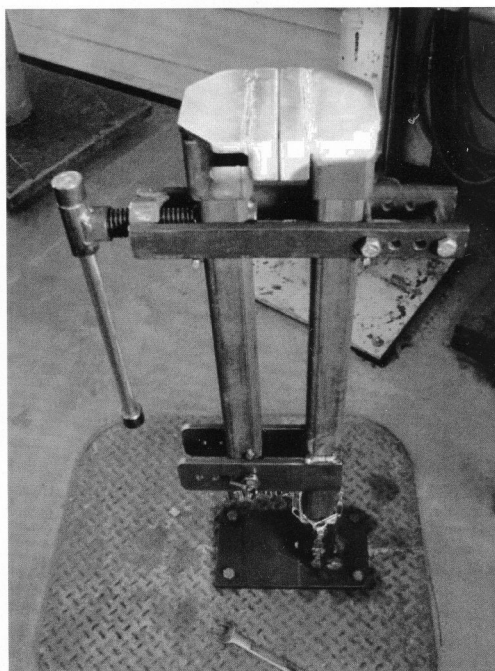


Ron used receiver tube to attach the bottom of the vise to the base. Here you see two possibilities.

R: Notice he welded the tube to a smaller plate and bolted it to the large plate. It would be difficult to weld to the large plate without it warping, which would make the base wobble.

Ron is planning to host a few vise building workshops sometime in the future. If you are interested in attending one email Ron at ronkinyon@aol.com

If you build one on your own let Ron and I know what great ideas you came up with.



Ron Kenyon's design for a vise.
Sam Rivera is considering a workshop in Tucson to build some of these vises.
(See announcement on page 10.)

Portable Folding Hammer and Tong Rack By Jacob Willson

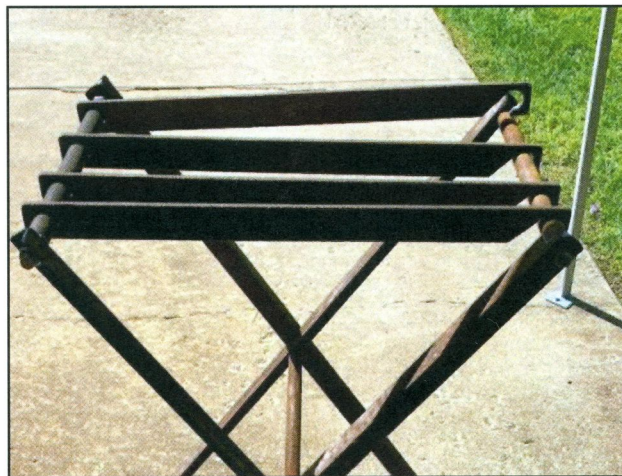


I don't have a dedicated shop for hot work and I do my forging in the driveway. I wanted a rack that would hold my hammers, tongs, and what I was working on. This rack would also need to be compact for storage when not in use. I wanted to share what I came up with to help anyone else in the same situation or anyone that may like an extra table that folds up when not in use. I built this with materials I had on hand, it has a nice rusty patina, so feel free to modify with what you have.

The cross racks or tool holders are $\frac{1}{4}$ " x $1\frac{1}{2}$ " flat bar, 20" long and the legs are 1" angle,

36" long, making a table height of 30". (Tip - Pythagorean Theorem) The racks have $\frac{7}{8}$ " holes on each end and one end pivot's on $\frac{1}{2}$ " pipe with $\frac{1}{2}$ " all thread through bolted to the legs. My original plan was to weld the flat bar to the pipe, but I'm still playing with the spacing and don't think it is really necessary. On the other end of the bars, I cut notches at an angle (see picture) to hold on the other end when in use. For the cross members holding the legs together, I used some rod with threads on the end from an old washing machine, that's why it is 12" deep. You can use all thread or weld bolts to a small piece of pipe, be creative.

To fold up, just pull the end cross members together and either flip the rack over or let them fall down. It folds up and stores pretty compact until it is needed again. It's nice to have all your tools needed for a project organized and readily available. It's portable and allows for easy storage.



Interesting Web Links

Out of The Fire featuring Richard Bent.

This is a professionally made video shot during the AABA demonstration at the Pioneers Arizona Living History Museum in March 2013. It runs 8.5 minutes.

<https://www.youtube.com/watch?v=76gurxLoCRE&t=19s>.

Cinderella - Part 2

Steve Miller

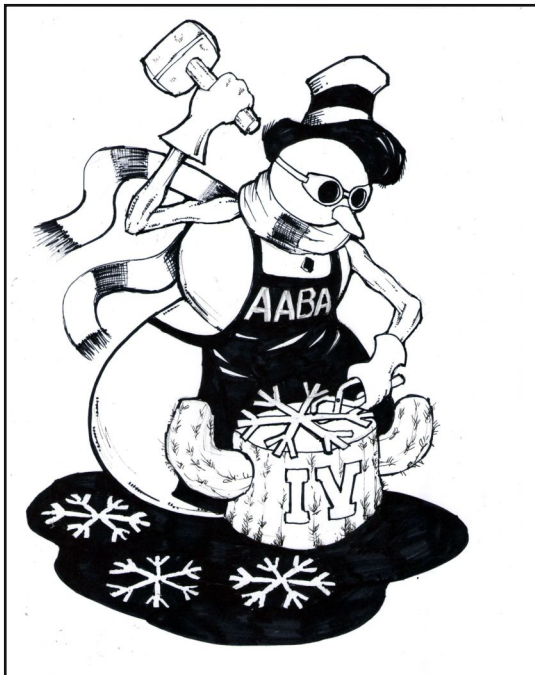
In the July issue of The Anvil's Horn, Steve Miller described the Cinderella Project, a pair of high-heel shoes made of steel, that he made for the Botanical Blacksmiths and Friends show at the Artoretum at Flagstaff this summer. He hadn't completed the project when the July issue went to press, so here he describes the final steps in his project.

At the suggestion of a great blacksmith we all know as Grizz, I added some glitter to the patina for the Cinderella shoes. Most of the glitter I found was plastic based, which would hold up to the clear coat I had planned to use. But then I found some irridesant powder at Sculpt Nouveau. I would have liked to have a sampler of various colors, but I opted for the silver. (I would have liked to try red too, but time was short.) I used about 15 ml of Red Dye Oxide, also from Sculpt Nouveau, and added 2 scoups of silver irridesant powder. (A scoup was as much as would stay on the the first 1/2" of a popsicle stick when dug into the powder.) To my surprise, I no longer had a red patina, but a pearly pastel pink. Back to the drawing board.

Sculpt Nouveau recommended applying the base patina then spray on the irridesant powder mixed with water. It took some practice to get the hang of it, especially with the steep angle of the shank part of the shoes. As soon as it dried, I used Clear Guard to fix it in place. It looked amazing.



Bonus information: If you first clear coat the patina and then spray on the irridesant powder, it beads up. When dry and clear coated, it looks like fish scales. This part happened by accident, but I thought it was worth sharing. It looked really cool.



Winterfest IV is coming!

Watch this space for details.

Winterfest Co-chairs (Richard and Steve) are recruiting for a Winterfest Committee for the Winterfest IV Conference in January 2021 (2022?). We need help in setup, cleanup, shuttling demonstrators from the Airport & Hotel to the conference grounds, etc. If you enjoy the conference and would like to give a little bit back by lending a hand, we can use your help. Please contact Steve (stevemiler.az@cox.net) or Richard (neongod52@gmail.com).

Calendar 2020-2021

These events are tentative because of pandemic unknowns

Early Dec. 2020
Jan. 2021 (2022?)

AABA Annual Banquet and Auction
Winterfest IV

TBD
Pima County Fairgrounds

Phoenix (?)
Tucson

Your dues for 2020 are due now!

Many of us renew in person at a demonstration early in the year. But those opportunities are limited this year. Please mail your renewal now using the form on page 19.

MCC Blacksmithing & Welding

The Mesa Community College blacksmithing program is an excellent deal - over 60 hours of instruction including material and propane! Classes are on Wednesday during the day with instructor Richard Rozinski, Tuesday and Thursday evenings with instructor Dan Jennings, and on Saturdays with instructor Jaime Escobedo. Blacksmithing is listed as WLD103 in the class schedule.

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.

Classes fill up early, but waiting lists may be available. For more information go to: www.mesacc.edu

Sahuaro Ranch News

After being destroyed by fire on September 25, 2017, the reconstruction of the blacksmith shop at Sahuaro Ranch in Glendale is essentially complete. Jay Griffin and Ronald Wicklund were forging at the blacksmith shop on February 8. Watch The Anvil's Horn for upcoming events at the Sahuaro Ranch blacksmith shop.

Deadline for the November 2020 issue

October 1, 2020 is the deadline submitting photos and articles for the July issue of the Anvil's Horn.

Send articles, pictures, etc. by email to:

editor@azblacksmiths.org

or by regular mail to:

Bill Ganoe, PO Box 40233, Tucson, AZ 85717

Welcome New Members

Justin Fair	Chandler
Adal Lopez	Flagstaff
Mike Bromley	Marana
Rusty Fannin	Mesa
Geoffrey Krassy	Tucson
Aidan Olmsted	Tucson
Manuel Almodova	Yuma

Classes at Pieh Tool Beginning/Intermediate Blacksmithing

- Beginning/Intermediate blacksmithing classes with Dylan Cook

No classes are currently scheduled for the rest of 2020. Classes may be offered starting in September

Check future issues of The Anvil's Horn or the Pieh Tool website for the next classes as soon as the pandemic subsides.

Registration is \$550.

Students will make several simple projects to take home.

For more details call 888-743-4866 or browse to www.piehtoolco.com.

Workshops in Tucson

Sam Rivera is in the early stages of planning a couple of workshops at his shop in Tucson.

Refacing old anvils

Building a Ron Kenyon vise.

(See photos of Ron's vise on page 7.)

Sam hasn't worked out schedules or prices yet, but if you are interested in either or both, text Sam at: **520-591-4700**.

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

We are planning to resume open forges in Tucson in October, but there may be some pick-up events now and then before then. Check the Desert Metalcraft website, <http://www.desertmetalcraft.org>, for upcoming events at DMC. If you are on the email list for southern Arizona, you will get notices about any last-minute AABA open forges. If you aren't on that email list, send a request to editor@azblacksmiths.org.

Open Forge: Grizzly Iron

Don't have a power hammer? Use one at Grizzly Iron, 1329 W. Lincoln St., Phoenix, 4:30 PM to 8:30 PM, more or less. There are a lot of changes in dates, times, and restrictions, and those changes may be made on short notice during the COVID-19 pandemic. Keep checking the website:

<http://grizzlyiron.com/classes-and-workshops> or the **Grizzly Iron Open Forge and Workshops** group on Facebook for current details.

Open Forge: Desert Rat Forge (Phoenix area)

Paul Diefenderfer will host an open forge at Desert Rat Forge on Saturday, September 5 and Saturday, October 3, 2020, from 9 to noon followed by lunch (You gotta' buy your own.) at the world famous Big Earl's Greasy Eats in Cave Creek. Desert Rat Forge is at: 7645 E. Highland Rd., Cave Creek. 602-509-1543 or dief@phoenixrockgym.com.

Directions: From the center of Cave Creek – 4-way stop at Cave Creek Rd & School House Rd. Head north on School House 1.2 miles to Highland Rd (if you get to the 4-way stop at Fleming Springs you've gone a tad too far). Turn right (east) on Highland. After about 1 mile the pavement ends. Please drive slow to avoid kicking up dust. As the gravel road makes a turn to the left there will be a single lane gravel road on the right with a sign for 7645. Drive down this road for bit until you see the big anvil. You are there! Park in the pullout if there is room – please do not park on top of any vegetation! If no room return to main dirt road and park along the north edge and walk to the 700ft back to property.

If You Are Attending An Open Forge...

These open forges are part of AABA educational activities, but AABA does not provide funds for these events. 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 put something in the donation box to help our hosts with their expenses. Thank you! From all of your open forge hosts. **You will need to wear safety glasses. Hearing protection is recommended.**

AABA Membership: The AABA membership form has been moved to page 19.

Classes and Events at AABA Members' Shops

Desert Metal Craft

544 E. 24th St., Tucson, AZ

“Desert Metal Craft is the only school in the southwest dedicated to teaching blacksmithing, bladesmithing and fabrication together with the modern science behind the craft of metalworking.”

- Rich Greenwood

The schedule at Desert Metal Craft features a wide range of classes and workshops. Check the website:

<http://www.DesertMetalCraft.org>, for on-line events, details of specific events, and to register for each class or workshop

Grizzly Iron

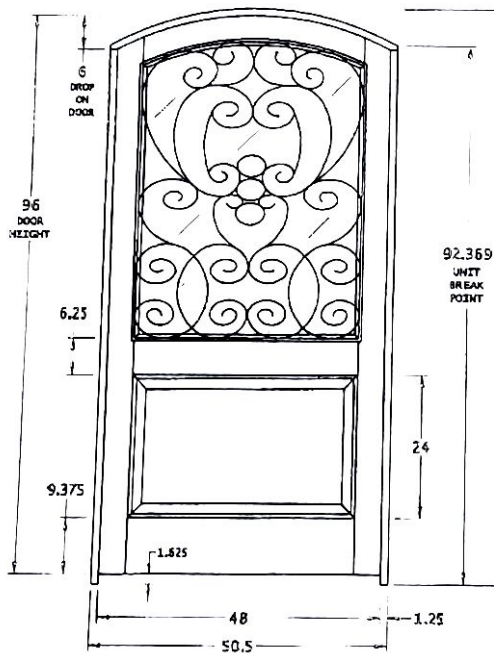
1329 W. Lincoln St., Phoenix, AZ

The schedule at Grizzly Iron features a wide range of classes, open forges, and workshops. For the current schedule, prices, and registration check the website: <http://grizzlyiron.com/classes-and-workshops>, or the **Grizzly Iron Open Forge and Workshops** group on Facebook for current details.

Members' Current Projects

Len Ledet

Len Ledet reported that he had recently gotten a commission from a door manufacture to make a grill for an upscale door. Len said he had done many other girlls for this manufacturer, and they were all different. He sent some photos of his current job.



One of the jigs for scrolls.



Assembling the scrolls.



Scrolls welded and ground and ready for collars.



Collars welded to the scrolls.

Learning From Your Mistakes

Letter to a Beginning Blacksmith



Letter to a Beginning Blacksmith

Some of my most important lessons come from making mistakes. I took my first formal beginners blacksmith class in 2001 at John C. Campbell Folk School, the same year I joined NYSDB. Back home in my shop, I practiced what I learned and started forging simple items.

In 2003 I signed up for one week of a two-week traditional joinery class with Clay Spencer as the lead instructor. In October, while attending a SOFA event called Quad State Round-Up in Troy, Ohio, I met Clay and told him that I would be in his class. As we discussed ideas for my class project, I felt intimidated by what he thought I should do, and was afraid I wouldn't do well. In fact I knew I was in over my head.

I designed my class project and sent a copy to Clay. It was to be a pair of legs for a low bench with mortise and tenon joints, some at right angles to others, and collared joints with scrolls which I had already forged in my shop.

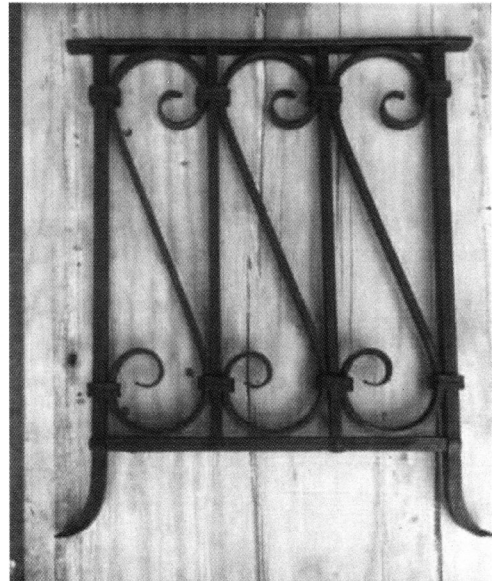
In November, I was ready for my class at the Folk School. The class started Sunday night and was set to end at noon Friday. I had my plan done when I got there. Then Clay handed me a sheet of steel on which I was to draw my plan and put prick punch marks at the corners and other critical points. He told me that the finished pieces must fit the plan exactly. Exactly? Now I was really feeling anxious.

Monday I began forging test pieces and took lots of notes. I continued to take notes all week as I was working and as I was listening. During the class I learned to forge tenons, make collars and much more. The two instructors circulated around the shop, answering questions, offering tips, and being very helpful. We stopped work at the forges only while the instructors demonstrated techniques.

Though I finished Friday morning, when I stood back and looked at my work, it didn't look right to me. I asked one of the instructors for his comments, and that's when I learned that lining up scrolls in a row is not visually pleasing and causes the collars to tilt. Two scrolls need a space between them to be pleasing.

This class taught me that you can work forever on your piece, but if the design isn't good, neither is the piece you've made. My design flaw was the misplacement of scrolls, but my joinery work was such that Clay suggested I come for a two week class the following April. Those six days of hard work were a great example of how you can fail at something and still get a lasting lesson on how to work better.

Henry P. Offermann



QUICK TONGS

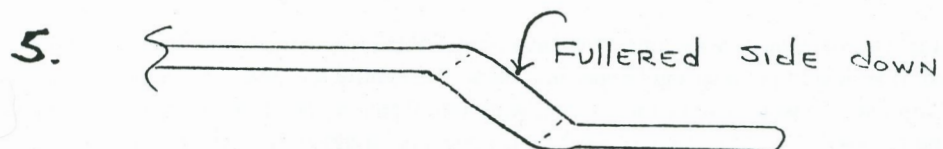
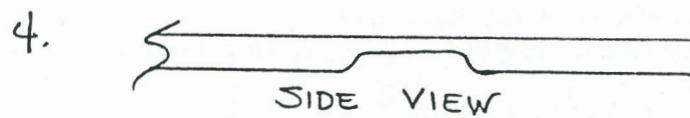
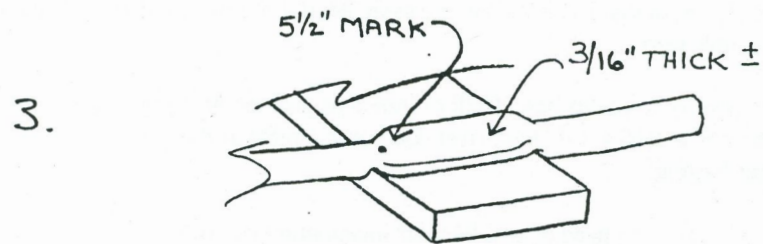
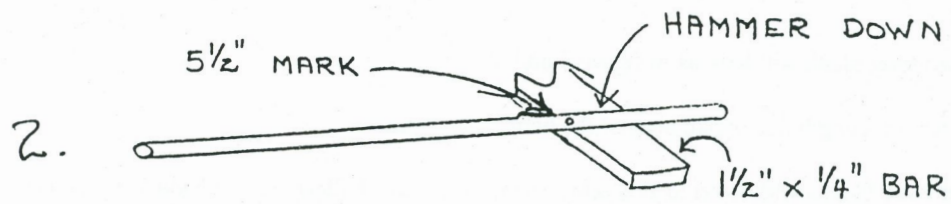
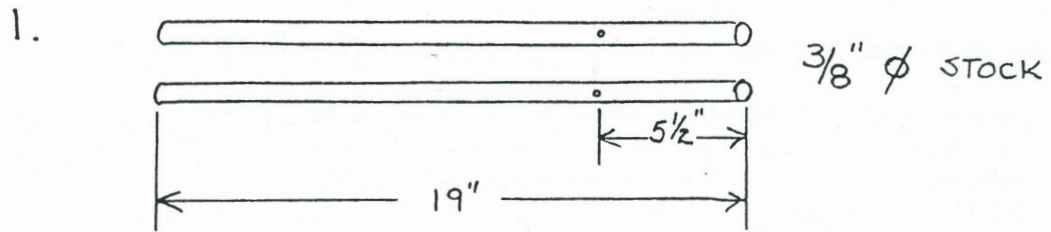
An Ocmulgee Blacksmith Guild "How to" article..... By: Stan Strickland

Material Needed: 3/8 Round Mild Rod (Length is determined by size of desired tongs)

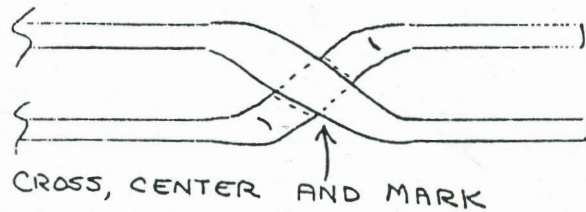
1. Stock size used is 3/8" Round to eliminate the need to draw out reigns. Length is determined by the size tongs needed. These tongs were made of A-36 steel, the common steel now furnished by the mills, later this will work to your advantage in tempering your tongs for a spring in the reigns. Mark stock at 5 1/2" from one end.
2. Using any material of 1 1/2" width as a bottom fuller, place 5 1/2" mark as shown (this is to keep the tongs even on the jaw end). Hammer down until entire 1 1/2" section is flat and even, about 3/16" thick.
3. Finished tong blank will look as in figure 3 and 4.
4. Side view of Tong blank, make both of the halves the same.
5. Off set bend blanks with fullered side down, bend as shown. Fullering and bending can be done in the same heat in less than a minute.
6. Cross the two blanks as shown so that the jaw ends are even. Mark both pieces, diamond shaped box makes alignment of rivet hole easy.
7. Use additional lines if necessary to center hole. Drill or punch as you see fit. I prefer to drilling for a good fit on the rivet, which is a 3/16 x 3/4" long rivet. Do not assemble at this point, use loose rivet to align jaws during forging.
8. Form jaws of your choice, make you need or just let your imagination run wild.
9. Some of the tongs that I have found to be the most useful are:
 - A. Thin pickup or rivet tongs, jaws about 3" long about 3/16 thick. Excellent for working with small pieces that like to fall in the fire.
 - B. Flat jaw for general handling of thin flat pieces.
 - C. Pincher jaw for holding small flat sheet pieces while forging. Great for those pieces that want to turn while forging.
 - D. Round jaw, size to suit, for round and square work.
 - E. Lip tongs for handling rings.
 - F. Side jaw tongs, form as shown then offset jaw so that work will pass along side of riveted area, for long pieces.
10. Now that you have made your tongs and have riveted them together, aligned properly, and working as desired, it is time to put a spring temper into them. Heat entire jaw area back about 2" past rivet to a red heat. Dip tongs in water two or three times, wait until water is gone from tongs before making the next dip into the slack tub. After most of the heat is gone, cool tongs completely in water. Reigns will be springy and feel good while holding work securely. Rivet may loosen while tempering, just tap it up snug and oil it.

Stan Strickland

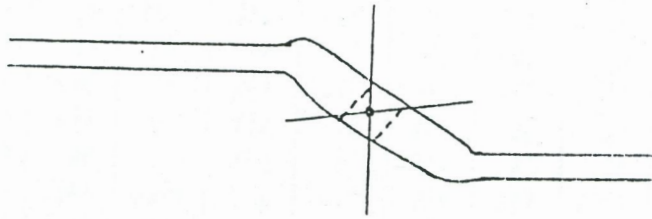
Quick Tongs (cont.)



Quick Tongs (cont.)



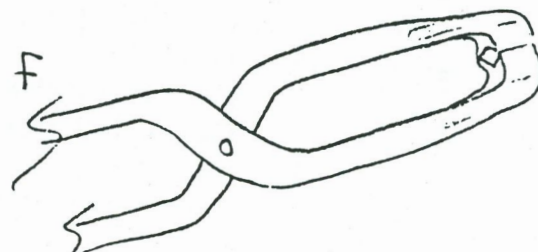
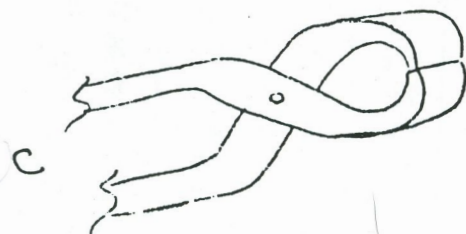
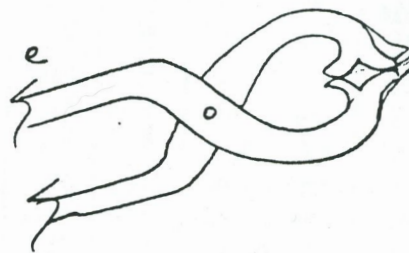
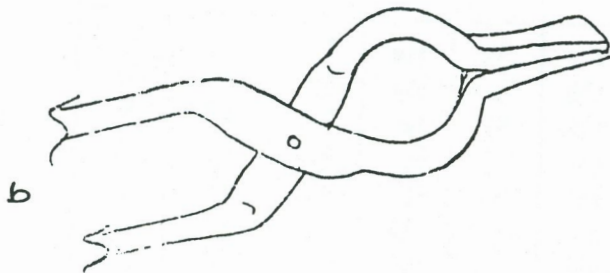
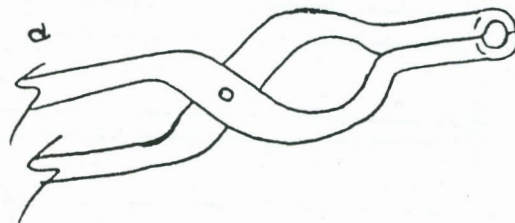
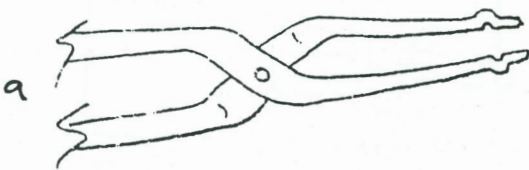
7.



USE MARKS TO LOCATE CENTER,
PUNCH THEN DRILL OR PUNCH $3/16$ " HOLE

8.

9



120



Artist-Blacksmith Association of North America

ABANA is widely recognized as the preeminent organization of blacksmithing in the world. Visit us online at www.abana.org and like us on Facebook and Twitter. Join or renew your membership at: www.abana.org/membership

Blacksmithing, the cornerstone of all crafts for centuries, has come back to life. Once rendered nearly obsolete by the Industrial Revolution and 20th Century technology, this ancient craft has undergone a contemporary renaissance. A new appreciation of the honest, enduring qualities of forged metal has developed.

At the heart of this revival has been the Artist-Blacksmith's Association of North America, Inc., a non-profit educational association dedicated to the dissemination of knowledge about the art and craft. Started by a handful of isolated blacksmiths in Georgia in 1973, ABANA now serves nearly 4,000 members.

As part of your Membership Benefits you will receive 4 issues of the Anvil's Ring and 4 issues of the Hammer's Blow Magazine each year you are a member. These magazines can not be subscribed separately but are only received by our members. We have recently added a youth membership at a reduced rate, this membership available to those 18 or under includes a subscription to only the Hammer's Blow magazine.

ABANA New and Renewed Membership Form:

Name: _____ Membership ID# _____
for renewals, if known. (Not required)

Street: _____ City: _____ State/Prov: _____

Zip/PC: _____ Country: _____ Phone: (____) _____

Email: _____ Website: _____

☐ New

☐ Renewal Type _____ Amount \$ _____

Card Number _____ Exp. Date _____ CVVS _____
_____/_____/_____

ABANA Affiliate: _____
Credit card orders can be faxed, be sure to sign this form. Fax: 423-913-1023
Mail to: ABANA, 259 Muddy Fork Rd, Jonesborough, TN 37659 USA
(Please pay by Check, U.S. Money Order or Credit Card)
Phone: 423-913-1022 or join online at www.abana.org

Membership Rates

Type	1 yr	2 yr
Regular	55.00	105.00
Senior	50.00	95.00
Foreign	65.00	125.00
Student(Full Time)	45.00	85.00
Youth (18 and Under)	20.00	
(Hammer's Blow Only - Non Voting Member)		
Contributory	150.00	and UP
Educational Institute	250.00	

Classifieds

Classified ads are free to members and can be submitted by email to: editor@azblacksmiths.org. Ads will run for 3 issues. You can renew your ad if you need to run it after the third issue. Please let the editor know when you no longer need to run the ad.

Will buy your unwanted
blacksmith or horseshoeing tools
and supplies.

Barry Denton, 928-442-3290 any
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Advantages of AABA Membership

IMS has offered AABA members two great opportunities. Thanks to members Doug Kluender and Wade Smith for the idea and contacts with IMS.

1) IMS has space for member metal work to be put on display in a glass case and on top of the cut metal rack inside the store. Contact Steve Miller, stevemiller.az@cox.net, to get your items on display. These items may be for show only or they may be offered for sale. Artists are responsible for any financial exchange. IMS will make a nice card to identify the piece, the artist, and the cost.

2) IMS is offering a 10% discount to AABA members. The discount is available at the Phoenix and Tucson stores. You need to establish an account at IMS. It's free. No credit approval is needed. You can pay with cash. Give the staff your account name whenever you buy something, then request the education discount as an AABA member. If questioned, inform the clerk that they should have an AABA member list behind the counter.

Don't forget that AABA members get discount pricing at the Vern Lewis Welding Supply stores in the Phoenix area.

Sources

AZ Tool Steel

520 S. 52nd Street #201
Tempe, Arizona 85281
Phone: 480-784-1600
Toll Free: 877-795-1600

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 www.barubar.com

IMS

Full service supplier of steel, stainless, brass, aluminum, copper. Discounts for AABA members. (See details on pg. 18.) 5150 S. 48th St., Phoenix 602-454-1500 3757 E. Columbia St., Tucson 520-441-5900

Interstate Steel and Salvage

Specializing in Steel, Aluminum, Stainless Steel, Brass, Copper and some alloyed metals of all types, sizes and shapes. Cutting, Shearing and advanced Flow water jet cutting for all your project needs. Valley wide delivery. Let us quote your next large or small job! 12129 W Peoria Ave, El Mirage 602-944-2000

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Cave Creek, AZ, 480-626-0924
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Santa Fe, NM 87507
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Discount pricing for AABA members.
Various locations in the Phoenix area.
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Or send check/money to
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73 Penniston Pvt. Dr.,
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I can mail a copy or email PDFs.

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

AABA Membership

Benefits for members include:

Member discounts at vendors around the state: See page 18 of this issue for more details.

Reduced registration fees at demonstrations and workshops

A one year subscription to the bi-monthly newsletter, *The Anvil's Horn*

Connection to members throughout the state who can answer questions and give advice

Free classified ads in the *Anvil's Horn* and on the AABA web site.

eMail notices when event details change or new events are scheduled on short notice.

AABA Membership Form: New Member ☐ or Renewal ☐

Name _____

Address _____

City _____

State _____

Zip _____

☐ Do not publish

Phone (home) _____

(mobile) _____

☐ Do not publish

Email _____

Professional blacksmith _____ Hobbyist _____ Farrier _____ Blade smith _____

Your main blacksmithing interest _____

Occupation or skill _____

Please check one:

Regular membership (\$35) _____

Family membership (\$40) _____

Mail to: Wally Warnke

7070 E. Dogwood Trail.

Cornville, AZ 86325-5154

Make Check Payable to AABA

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P.O. Box 40233
Tucson, AZ 85717
Address Service Requested

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The Anvil's Horn is the official newsletter of the Arizona Artist Blacksmith Association. Published every other month preceding the bimonthly meetings of the Association, the newsletter is oriented toward anyone interested in blacksmithing and related forms of metal work. Membership is available at the rate of \$35 for individuals; \$40 for families and includes a subscription to the *The Anvil's Horn* for one year. Every attempt has been made to ensure accuracy of information appearing here, but no liability is assumed by the Association, its officers or editor for errors, damages, or injuries resulting from any design, use, construction or application of said information. Uncopyrighted material may be used freely by other similar organization provided proper credit is given. Any copyrighted articles appearing herein should not be reproduced without permission of the author. Matters relating to newsletter submissions, corrections, etc. should be addressed to the editor: Bill Ganoe, P.O. Box 40233, Tucson, AZ 85717, Tel: 520-326-5478, or editor@azblacksmiths.org.

For membership information or address change, contact:
Wally Warnke, 7070 E. Dogwood Trail, Cornville, AZ 86325, 480-323-5003, desert.rat51wb@gmail.com

Your dues for 2020 are due now!

Many of us renew in person at a demonstration early in the year. But those opportunities are limited this year. Please mail your renewal now using the form on page 19.
