

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 179 March 2016



*Making and fitting handles for common utensils as well as knives.
Demonstration for AABA by Joshua States
January 16, 2016*

President's Message:

Years ago I was using a wire cup brush on a grinder when a small piece of wire bounce off my cheek, ricocheted off the inside of my glasses and embedded in my eye. It happened on the weekend. By the time I got to the eye doctor on Monday it had started to rust. The pain was incredible. Ever since then I wear a full face shield when using the wire brush on the grinder. This last weekend I was grinding some welds on some outdoor steel panels. The dirt shifted under my foot and the grinder sent a lovely shower of sparks at me face. I did not have face shield on as I was being very careful to always grind away from my body. After a trip to the ER and eye doctor all is well. I don't want to repeat this so I have ordered side shields for my glasses and don't plan on using the grinder without the face shield.

The moral of the story: It is easy to slip into unsafe habits. Most of the time we get away with it. It really sucks when we don't. Take a few moments to evaluate your practices.
Be Safe. Have Fun!

Paul Dief

Your dues for 2016 are due.

Check out page 18 for several reasons to keep your membership current.

The Editor's Notes

We need how-to articles, shop hints and tips

Do you have any hints or tips that might be useful to other members? Have you built a a more efficient jig? Built a better mouse trap? Write up a description and send it to me. It doesn't have to be in finished form. Very rough drafts can be a great starting point. If you need help polishing the write up, I'm here to assist you.

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Demonstration Saturday and Sunday, March 26 and 27, 2016 Grizzly Iron

1329 W. Lincoln St.
Phoenix, AZ

Demonstrator: John Winer The Fluidity of Line



Photo: John Winer

In this demo, we will be exploring the use of fluid line arcs, coves, and ribbon, as a means of artistic self expression. We will seek to achieve, in an improvisational way, a sculptural line that conveys an emotion, motion or idea. We will also be focusing on the use of the cone mandrel to achieve a smooth and fluid motion.



Photo: Wurman Studios

Registration begins at 8:00 AM Saturday, the demonstration starts at 9:00 AM Saturday and Sunday.
Registration fee: \$25 for members, \$30 for non-members

- Lunch is on your own. There are several good eateries nearby.
- Tailgaters welcome
- Bring things for Iron-In-the-Hat and Show-and-Tell.
- Don't forget to put your name on anything you bring for Show-and-Tell.

Note: This is a one-time change from our normal 3rd Saturday demo schedule. John Winer has a scheduling conflict with March 19.

Other events this weekend:

- Friday evening at Grizzly Iron starting at 5:30 pm John will be doing a slide show about his work at Grizzly Iron followed by an iron pour/thermite burn by Frank Christiansen.
- Saturday night we will relax and hang out at Doug Kluender's after the demo. It will be BYOB. This will be a good social time and John will entertain us with some bluegrass music. Those with instruments are encouraged to bring them.
- On March 5th, Grizz will be having a work weekend to clean the shop in preparation for the demo. Lunch will be provided. Contact Grizz at 602-717-1458 for more info.

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, a t-shirt, a hat ... something an AABA member would enjoy.

Directions to Grizzly Iron

1329 W. Lincoln St., Phoenix, AZ

- I-10 (via the tunnel) to 7th Ave.
- Take 7th Ave. south to Grant.
- Turn west on Grant to 13th Ave.
- Turn north on 13th Ave. to Lincoln St.
- Turn west on Lincoln St. to Grizzly Iron (on the left.)

More detailed instructions on pg. 5

As always, safety glasses are required.

Workshop John Winer Monday and Tuesday, March 28 and 29, 2016 Grizzly Iron

1329 W. Lincoln St., Phoenix, AZ

AABA members: \$250, Non-members: \$285

In this workshop students will create a sculpture using traditional techniques. Feel free to bring along that weird looking chunk of Iron you once forged and never knew what to do with. We will use our imagination and come up with something. Or start from scratch with a new piece. This will be a playful and musical approach to improvisational forging.

This two day workshop, following the demo, is limited to 10 participants.

Email Jason at jason@grizzlyiron.com or call 602-717-1459 to reserve your spot.



Graffiti by John Winer (Photo: Tim Cisneros)

Our March Demonstrator John Winer



(Photo: Tia Thomas)

The story of my life reads like a Tom Robbins novel. At eighteen years of age, I found myself a full time street musician in the city of New Orleans. By the age of twenty one, I had preformed in bars, festivals, on street corners and in prisons in close to forty states. I'd had a radio show at the University of South Carolina at seventeen.

By thirty, I had become a landowner in the mountains of East Tennessee where I still reside, and was pursuing a life as an organic market farmer. Unable to make a living selling produce and needing tools and contraptions for the farm, I became an itinerant Millwright/welder and that is what paved the way to becoming a blacksmith.

As an artist/blacksmith, I have produced high end architectural work as well as furniture designs for a leading iron furniture company. My work can be seen in the Anvil's Ring, The Hammer's Blow, Furniture Style Magazine, High Country Magazine, and Kitchen Trends Magazine. I have also been featured in the books From Fire To Form, Ironworks Today 3, and The Art Of Community, the Janet and Jim Ayres Collection.

I currently run a small smithy on my farm and take a very musical and improvisational approach to design concentrating on the fluidity and motion of line.



(Photo: Fanjoy Labrenz)

Getting to Grizzly Iron in Phoenix

Detailed directions

I-10 from the west

Merge onto I-17 south, follow the instructions just below.

I-17 from the north

Exit on Grant St., head east to 15th Ave, north to Lincoln St., east on Lincoln, the shop is on the right.

I-10 from the east and southeast

Merge onto I-17 north, exit on 7th Ave., head north to Grant St., west to 13th Ave., north one block to Lincoln St., west on Lincoln, the shop is on the left.

From northeast valley

Take 51 or 202 to I-10, merge onto I-10 west, exit 7th Ave., head south to Grant St., west to 13th Ave., north one block to Lincoln St., west on Lincoln, the shop is on the left.

Coming Attractions

May 2016

Doug Thompson will discuss various fabrication techniques as well as the basics of enameling. Kevin Potter will demonstrate some basic machining for blacksmiths. The demo will be at Kevin and Doug's shop in central Tucson.

July 2016

Demonstrators will be AABA members who went to the ABANA 2016 Conference in Salt Lake City. They will be demonstrating things that they learned or like at the Conference. This demonstration will be in Flagstaff. Exact location will be announced later.

January Demo Report

Bill Ganoe

Photos by Bill Ganoe

Over 40 AABA members and guests came out to Paul Diefenderfer's Desert Rat Forge in Cave Creek on January 16 for a great demonstration by Josh States. Josh led us through the making and fitting of handles for tools that many blacksmiths make for friends and customers. Those items include fireplace tools, BBQ forks and other utensils, etc. These handles add beauty and utility beyond the iron handles that we usually put on tools like this. If you aren't a bladesmith, this demo provided a lot of interesting and useful information. Making a beautiful handle usually involves an incredible amount of filing work. Josh recommended the DVD titled ***Fileworking*** by Dwayne Dushane for detailed help with the file work.

As usual, we had an interesting table of items for iron in the Hat, and several beautiful and impressive displays on the Show and Tell table.



Our host, Dief, at his door



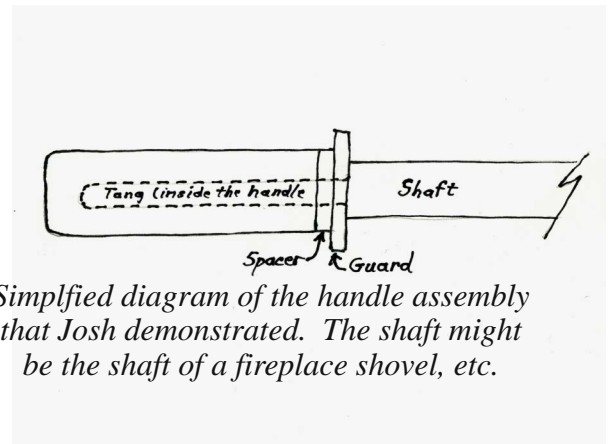
Gathering for the demo



Iron in the Hat table



Josh States explains some initial concepts



Simplified diagram of the handle assembly that Josh demonstrated. The shaft might be the shaft of a fireplace shovel, etc.

January Demo Report (cont.)



A filing jig to clamp on the shaft of the shovel, fork, etc., to finish the tang and ensure the shoulder at the front of the tang is square to the shaft.



Using a drawing template to lay out the holes in the guard and spacer.



Drill a hole in the guard.



Then file the hole to fit the shape of the cross section of the tang.



Tools to set the guard (and, maybe, the spacer) on the tang.



Setting the guard (test fitting at this point)



Guard temporarily set



Ready to shape and fit the handle



Templates for shaping the handle. Draw on paper; super glue the paper to 1/8" steel.

January Demo Report (cont.)



Shaping a solid handle



Test fitting a solid handle



Routing out space for the tang in a frame handle (two pieces of wood with a metal frame in the middle)



Pinning one half of the handle to frame.



Sanding a concave curve in the handle. The frame and handle material should be cut slightly oversize to allow for sanding to final shape after assembly.



More shaping on the disk sander



Pieces of 1/4" hard board make great sacrificial bases for sanding to shape and ensuring that edges are perpendicular



Ready to set on the tang and finish off the pins.

January Demo Report (cont.)



Almost done



Just need to finish the pins.



Rough cut the pins to length.



File the pins to length using a 1/16" drill as a guide (and to protect the handle surface).

Pein the pins to the surface of the handle. Tape a strip of clear acetate to the handle to protect it from hammer marks.



*Show and Tell
Knife by Josh States
Case by Liz Carlier*



*Show and Tell
Ron Smith*



*Show and Tell
Jon de Masi*



*Show and Tell
Gilbert McCann*



*Show and Tell
Paul Diefenderfer*

Calendar 2016

March 5	Open Forge	Holy Hammer Forge	Tucson
March 13	Open Forge	Desert Rat Forge	Cave Creek
March 26 - 27	Demo - John Winer	Grizzly Iron	Phoenix
March 28 - 29	Workshop - John Winer	Grizzly Iron	Phoenix
April 2	Open Forge	Sam River's Shop	Tucson
April 10	Open Forge	Desert Rat Forge	Cave Creek
May 21	Demo - Potter & Thompson	Potter/Thompson shop	Tucson
July 13 - 16	ABANA 2016	Utah State Fairgrounds	Salt Lake City, UT
July 30	Demo	TBA	Flagstaff

Classes at Pieh Tool Beginning/Intermediate Blacksmithing with Gordon Williams

March 18-20, 2016

April 15-17, 2016

May 6-8, 2016

\$550 for three days of classes, blacksmithing or knife making, at Pieh Tool in Campe Verde.

For complete details and call 928-554-0700 or browse to www.piehtoolco.com.

Submit Your Touchmark

Submit a JPEG of your touchmark(s) to Steve Miller, stevemiller.az@gmail.com, so it can be included in our AABA touchmark registry which will appear on our website soon.

Ride Sharing

Interested in sharing a ride to a far off blacksmithing event like ABANA 2016 to save on expenses or wear and tear on the old truck? Or would you like some company going to an AABA event just up the road? AABA VP Steve Miller is organizing a ride sharing exchange exchange for AABA members. Email your requests or suggestions to stevemiller.az@cox.net

Deadline for the May 2016 issue

March 31 is the deadline submitting photos and articles for the January 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

Dino Cerchie

Jason Luedtka

Gilbert McCann

Ric Leutwyler

Daniel Taylor

Joseph Leslie

Daniel Scalzo

Caleb & Mike Spanier

William Packard

Pinal Manufacturing

Mesa, AZ

Gilbert, AZ

Phoenix, AZ

Cave Creek, AZ

Haslett, MI

Mesa, AZ

Tucson, AZ

Marana, AZ

Mesa, AZ

Miami, AZ

MCC Blacksmithing & Welding

The Mesa Community College blacksmithing program is an excellent deal - over 60 hours of instruction including 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.

Classes fill up early. For more information go to: www.mesacc.edu

If you try to register for any Welding Department classes on line, and you find all the classes are closed (full). Contact me (Dan Jennings) 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.azblacksmiths.org

Open Forge: Tucson

Harold Hilborn will be hosting an open forge on Saturday, March 5, 2016. Call Harold before going to see if there are any last-minute changes. Other questions, comments or suggestions? Contact Harold at: Holy Hammer Ironworks, 5790 E. 14 St., Tucson, 520-603-6723 or hhiborn@aol.com

Sam Rivera will be hosting an open forge on Saturday, April 2, 2016, from 9 to noon. His shop is at 675 W. Helen St., Suite 1C, Tucson.

Take Speedway to Main Ave. Turn north on Main, then turn west on Helen. Helen is the first street north of Speedway. Call him at 520-591-4700 if you have trouble finding the shop.

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 to donate to help out or help with the cost of replacing a item. Thank you! From all of your open forge hosts.

Open Forge: Desert Rat Forge

Paul Diefenderfer will host an open forge on the Sunday, March 13 and Sunday April 10, 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!

Gordon Williams Blacksmith School

Gordon Williams teaches the regular 3-day classes at the Pieh Tool shop in Camp Verde. He is also teaching short (4-hour) classes and intensive 6-day classes at his shop near Camp Verde. Check out the details at www.gwblacksmithschool.com

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 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 (\$35) _____

Family membership (\$40) _____

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

Make Check Payable to AABA

Knife Making Class

Zachary Marquez

Photos by Zachary Marquez

On the weekend of November 6, I attended the knife making class taught by Ray Rybar at Pieh Tool Company. I learned much while forging, shaping, and grinding the knife that I made that weekend. For example, there are certain procedures to follow while determining the type of steel one has from scrap steel and how to heat treat it. First is the spark test: hold the steel against the grinder and observe the sparks given off, if there are very few small sparks, it is a lower carbon steel, which is good for decorative work but not for knives or tools. If there are a lot of sparks with more branching off, it is a high carbon steel, which is good for making knives and some tools such as hammers and hot cuts. If there are even more sparks and branching, then it is a very high carbon steel, which is good for punches and stone chisels. Mr. Rybar demonstrated how the spark test was done using mild steel, 5160 steel, and a farrier's rasp.

After doing the spark test it is important to find out how the steel is meant to be quenched. First heat the steel to nonmagnetic and then let it air cool to room temperature, if a file run across it does not catch, it is an air quenching steel such as A2 tool steel. If the file does catch, heat it back to nonmagnetic and quench it in oil heated to at least 130 degrees Fahrenheit. If the file does not catch, it is an oil quenching steel such as 5160. If the file does catch, heat it and quench it in water. If the file

catches, it is a water quenching steel such as W1 tool steel.

After being quenched and hardened, the steel must be tempered to soften the steel and prevent it from cracking. It is possible to temper a blade with a small toaster oven. However, the ovens are usually inaccurate in showing the correct temperature, so the correct settings must be determined for the type of steel being used. Heat and quench multiple small blocks of the steel being used, then grind off the scale and oxidation from the blocks. Heat the oven to where it is marked at 300 degrees Fahrenheit, place one block in the oven and record the color of that block after around 10 minutes. Continue that process in increments of 25 degrees until a block turns royal blue, which is about the end of the color spectrum that would be used for a knife. Be sure to record the temperature used and color of each block. Once that has been done, record the Rockwell hardness of each block and add that to the data.

This is only a small portion of what I learned at the class with Mr. Rybar. The class was very educational, and I was able to complete the knife I was making. It was made from 5160 steel and had cocobolo handle scales that were held on by copper rivets. I hope to build my own shop and make more knives using the knowledge and information I gained from that class.



The blade I made during class.

Zachary was awarded a scholarship from AABA's Reed Carlock Scholarship fund to attend this class. He wrote this article to fulfill the requirement for that scholarship.

This is an example of your donations and purchases at the annual AABA Auction at work.

File work on the spine of the blade.



The Art of Blacksmithing Business: Quoting

By Dan Jennings

With quite a few of our members reaching retirement age from their real jobs and several wanting to pick up a little spare money through their blacksmithing hobby, I thought there might be some interest in the business of blacksmithing.

In the 17 years I spent owning an aerospace machine shop I did 1000's of quotes. Although I was fairly successful at quoting I still think it is something of a black art. It is more like being a good poker player than a number cruncher. There is a difference between quoting for a thirty-man job shop than for a one-man job shop. With the one-man shop time spent doing maintenance, procurement, accounting, design, and engineering is time that takes away from production.

Hours x hourly rate + material cost = Cost.

The most obvious method of quoting is to determine (guess) how many hours the job will take. Multiply time by the amount of money per hour you want to make and add in the cost of materials.

Accurate time estimates are crucial, but not impossible. The only way blacksmiths have to get those estimates is experience. Sometimes making a few details is required to see just how labor intensive the job will be. Since estimates are rarely accurate, you really can't rely on them alone to arrive at a good quote.

Did you remember to add in time for design, layout, or procurement? How about the time you spent talking with the customer about the job, driving to the job site, and even quoting the job. Did you charge for all of the time that will be consumed because you are working on this job?

I found that I had to change from quoting by the hour, to quoting by the day. Sometimes it would take two weeks to get in 40 production hours. Often a job that I made \$50 per hour on only netted \$300 in a week. Quoting by the day means I have to keep working until I get in a day's work.

I always quote an installation as a full day, even if I only think it will take a couple of hours. By the time I get back to the shop, unload the truck and put everything away, I'm done for that day even if it's only 2:00.

Know your market.

My former business partner used to say: "No matter how long it takes to make, a \$10 part is only worth \$10". Which means, that just because you're slow or you don't have the tools or technology doesn't mean you can win a bid for twice as much as the job is worth. If your quotes are significantly higher than everyone else's you better have a reason, or the potential customer won't even bother to ask for a quote next time. Conversely, you don't want to leave too much money on the table. If your price is way below the market price, you either blew the quote, you're way faster than the rest of us, or you work really cheap. Usually businesses make their money with the quote, not during the production. It takes time and a lot of research to learn the market and really gets a lot easier with experience.

Anything is only worth what a willing buyer is willing to pay a willing seller.

Before you waste your time quoting anything, know what the buyer is willing to pay. When I receive a phone call from someone looking for a gate the sales pitch goes something like this. "I make real forged iron. I don't use box tube. I don't buy pre-made details. The material is solid iron, every piece is forged, and I use traditional joinery. It will look like it was made in the 1800's. I make my own hinges and latches and everything is custom for each application. I can do a very nice gate for \$2000, but depending on the design and detail the price can be substantially more. Is that what you are looking for and does it fit your budget?" No allows for a quick exit. Yes gets "Do you have a design in mind?" usually followed by a visit to the caller.

I always give people a \$ number early in the conversation, and remark that most of my work is on residences costing in the millions. Those that don't have the budget are grateful for the opportunity to exit the conversation. Those that do have the budget like the idea that they can have something normally found only in very exclusive residences.

(Continued on page 14.)

Gallery

Photos by David Bridenbaugh



*Agave Plant by David Bridenbaugh
Made from 1 1/2" pipe cut lengthwise with
a plasma cutter. The branches are all 30"
long. The tips of the branches are rounded
off with a taper of about 2".*



*Cowboy Campfire by David Bridenbaugh
Set on a piece of sandstone from Terry
Horne*

The Art of Blacksmithing Business: Quoting

(Continued from page 13.)

Being a willing seller.

My price is greatly affected by my attitude towards the project, the customer, and the amount of work I currently have. I'm a blacksmith because it is more fun than sitting in front of a computer with a phone screwed in my ear. If the job is something I won't have fun doing, it better be very rewarding financially. If the customer annoys me at the beginning, I'm crazy to even give them a price. I should bail out early.

Be fair about your pricing.

The best way to get and keep customers is to help them out when they need it without gouging them on the price. Be consistent with lead-time and price. Quoting a job for \$50,000 with a delivery time of 3 weeks tends to make the customer think they're

being gouged. A customer who feels they are being taken will never be happy with the job. Take the time to sell the customer on the fairness of your price. Point out the details that take extra time. Make sure they know exactly what they'll be getting (I usually do a sample) and why it is going to be better than your competition. If you can't justify your price to yourself, don't try to justify it to your customer.

Steps to actually quote a job.

1. Determine your customer's budget.
2. Estimate the hours and material required, convert to dollars.
3. If # 2 is less than #1 keep going – otherwise give them that price and move on to the next job.
4. Compare the market price and with your estimate, factor in how badly you would like to have the job, and arrive at a fair price that makes you a willing (and happy) seller.

Being a consummate poker player helps a lot.

(This article first appeared in The Anvil's Horn about 10 years ago.)

Student Gallery

Projects by some of the students in Dan Jennings' fall 2015 blacksmithing class at Mesa Community College.

Photos by Dan Jennings



*Mini-shield by David Hebron.
Front (left) and Back (right)*



*Horse head heart by Justin Johnson
to commemorate a marriage.*

Ypres 2016

Don't forget Ypres 2016, the international event organized to commemorate the people who fought and died in World War I (1914 - 1918). Ypres is a site in Belgium where some of the heaviest, bloodiest battles of World War I were fought. The memorial will be a tall Poppy Centograph which will be surrounded by fields of iron poppies made by blacksmiths from all over the world. The Belgian Guild of Blacksmiths and the British Artist Blacksmith Association are working with other partners and sponsors to design and build the memorial. AABA 2nd Vice-President, Steve Miller, stevemiller.az@gmail.com, has some poppy blanks, and will be collecting forged poppies at our March demo to ship to Belgium. Harold Hilborn plans to forge some poppies at the March Open Forge in Tucson.



The Anvil's Horn

For more information on Ypres 2016 check out
www.ypres2016.com
There is a video on making the poppies at
www.ypres2016.com/design/making-the-poppies.



March 2016



2016 ABANA SALT LAKE CITY CONFERENCE

JULY 13-16

at the FAIRPARK

REGISTER NOW. . .

**and take advantage of
the great savings!**

- Beginning to advanced **demos**: architectural and sculptural blacksmithing, repoussé, foldforming, damascus billet-making
- Expanded **teaching tents** and new **youth and farrier tents**: participate with the demonstrators
- Experience the design and building of a custom railing with an on-site install
- **Professional seminars** on building and marketing your business, how to photograph your work, and the future of blacksmithing
- Reserve your hotel NOW, pay later; on-site camping available
- Demo sites: on grass & in air-conditioned buildings
- Gourmet food trucks, Saturday night dinner
- **Fine art gallery** with **auction**, and **marketplace**

To find out more and register, visit:

abana.org/2016SLC

OR



Artist-Blacksmith's Association of North America (ABANA)

259 Muddy Fork Road, Jonesborough, TN 37659

423-913-1022; Fax: 423-913-1023; centraloffice@abana.org

Utah State Fairpark: Information

155 North 1000 West, Salt Lake City UT 84116

www.utahstatefairpark.com

Several AABA members are planning to go to this conference. Please join us. The more, the merrier. If you need a ride, or if you can take other people in your vehicle, Steve Miller is managing the AABA ride share program. Contact him by email at stevemiller.az@cox.net

We have also been asked to run an AABA display tent at this conference, but that will require several of us to be there to share responsibility for running, or just keeping an eye on, our display. Please contact Sarah Harms at eharms325@aol.com if you plan to attend and can help out with the AABA display.

Artist-Blacksmith Association of North America

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	

The Arizona Artist Blacksmith Association is an affiliate of the Artist-Blacksmith Association of North America.

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
day before 7:00 pm.

For sale

Propane forge, 2-burner, made in
one of Doug Kluender's forge
workshops.
Miller Dialarc 250, power source
for TIG or stick with cables,
remote foot control, argon bottle
and regulator
100 lb. anvil
Hand shear

Jack Friehe, 623-466-9889

For Sale

FORGE-APRONS, the stylish
blacksmith apron that can be
Custom-Sized, Personalized or
Customized with three designs to
choose from and FREE shipping.
Visit forge-aprons.com
or call James Patton, 575-313-4650

For Sale in Prescott

16 gauge stainless steel sheets:
seven 4' x 12'
one 4' x 7'
Take it all for \$500.00.
Brian Hughes
928-717-8247
brian@artsmithing.com

Coal for Sale

Dragonforge Ironworks has bulk
coal for sale. \$25 per 50lbs.
Minimum order \$100. Small orders
can be filled at our shop in Mesa.
Larger quantities available up to 1
ton but are located at the
Superstition Mountain Museum in
Apache Junction.

Really great forging coal from the
King Coal Mine in Colorado. Bulk
only, chunk sizes vary from pool
ball to bowling ball. Bring your
own 5 gallon pails, 3 pails equals
about 100 lbs.

Call Michael at 480.529.0206.

Marketing Assistance

Blacksmith's Wife Marketing provides
marketing and promotional services, in
both digital and print, to the metal
working community. Also providing
website design and consulting services.
Contact April Witzke at
(575) 535-4766 or visit
www.blacksmithswifemarketing.com

For Sale

Miller Syncrowave 250 TIG/Stick
welder with water cooler
includes:

TIG torch, Stick stinger, Tweco
TC900 water cooler, cart,
grounding clamp, foot pedal,
AC/DC, 240/480 v, 110 amps

Pickup in Tucson. \$1,500 or
best offer.

Jim Dunning, Moose Forge
mooseforge@gmail.com

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. At the time of purchase tell the clerk you would like the AABA discount and provide your name and address. They will verify your membership with the list AABA supplies.

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

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For Sale

Old Boice Crane floor drill press, 1/2" chuck. \$60.00
1 hp 12 gallon 110 v. Sears air compressor, \$60.00
1/2" thick steel plate table, 20" w, 84" l, 36" h. Should be attached to floor or wall. It's top heavy. \$75.00
1/4" thick L-shaped stainless steel plate. 7 to 8 sq ft of material. \$60.00
No. 1 Dodge vertical mill w/ Allied Machinery Co. 3/16, 3/8, & 1/2" collets. Old, small mill. \$500.00
6 monkey wrenches, wood handles, 7" to 15" long. \$60.00
1 1/2 hp variable speed, 110v. motor, Old, very heavy. \$60.00

Will help load, no delivery, as is.
Moe Hamburger
602-538-7905
hiron@cox.net

For sale

Victor Gas Rig+ gas saver, includes hand truck, gas saver pedestal and tanks. Tanks are almost full, the hand truck may need new tires. I have the green tool box the victor rig came in. Rig has been kept covered from the weather and is in good, serviceable condition.

\$500 firm for everything

Call Kurt, 602-526-0814 or e-mail, kperry9823@centurylink.net for more details.

For Sale

Titanium Tongs - All sizes and shapes, 50 pairs. Get them while they last. \$100 per pair.
Bernhard Heer,
715 205 8786

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.

Terry Horne
500 E. 38th Ave.
Apache Junction, AZ 857119
602-672-7085
www.arrowzonastoneworks.com

Forging Coke for Sale!

High quality L-Brand coke
\$30 per 50 lb bag

Rodger or Jason, 602-716-9660

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
www.chasers-pitch.com

Brent Bailey.

A blacksmith in California specializing in custom tools and ornamental forgings for artisans.
www.brentbaileyforge.com

Pieh Tool Company, Inc.

Blacksmith Supplies, Blacksmith Classes with Gordon Williams, Milwaukee, Wilton & JET Tools, Air Hammers, Hand Hammers, Tongs, Books, Coal and Coke.
661 Howards Road, Suite J
928-554-0700
www.piehtoolco.com

IMS

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

General Insulation

High temp insulating materials, bricks, Kaowool and other refractories.
3330 W Papago Street, Suite A
Phoenix, AZ 85009
Phone: 602-944-2249
Toll-Free: (844) 866-1680

Vern Lewis Welding Supply

Discount pricing for AABA members. Various locations in the Phoenix area.
602-252-0341
Dan, 602-316-4140, for tech support.

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

AZ Tool Steel

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

Arizona Artist Blacksmith Association
Attn: Bill Ganoe
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: Terry Porter, 2310 E. Melrose St., Gilbert, AZ 85297, 480-988-2070, trp555@prodigy.net

Your dues for 2016 are due.

If you haven't renewed, a reminder letter will be mailed soon.

Check out page 18 for several reasons to keep your membership current.