

# *The Anvil's Horn*

A Publication of the Arizona Artist Blacksmith Association

Issue No. 180      May 2016



*John Winer with partially completed demonstration piece.  
March 26, 2016*

# President's Message

“Education is not preparation for life; education is life itself.” John Dewey

I recently took a damascus steel class at Grizzly Iron. I haven't been that excited to swing a hammer since I first started blacksmithing. I've messed around a little with damascus but taking the class was beyond fantastic. I learned a lot. I can't wait til I get caught up on customer projects so I can make some more damascus for some sculptures I want to create. Learning new skills is such a thrill. It is how we grow, Learning is how we expand our universe. Education is the focus of this year's ABANA conference. I will be there. Can't wait to see what cool stuff I learn. Hopefully many of you can attend. If not, bummer.

Either way I urge you to find ways to increase your knowledge of blacksmithing. Attend our demos. Check out books and DVD's from our library. Keep shoving stuff into your noggin. Don't worry - It can never get too full.

Keep learning and happy hammering.

*Paul Dief*

## The Editor's Notes

### ABANA 2016

The ABANA 2016 Conference in Salt Lake City is coming up July 13 - 16. The program is getting fleshed out now, and I've put a current list of demonstrations, lectures, and workshops on page 17. If that convinces you that you have to go to the Conference, check out Ivan Hill's deal on motel rooms on page 16. Also if you want to share a ride, in your vehicle or as a rider in someone else's vehicle, check out Steve Miller's ride sharing exchange on page 10.

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**Demonstration**  
**Saturday, May 14, 2016**  
**Potter USA Shop**

1934 E. 18th St..  
Tucson, AZ

**Demonstrators:**  
**Doug Thompson, Harold Hilborn, and Kevin Potter**

The shop on 18th Street houses areas for machining, metal fabrication, sheet metal work, and forging.

Doug will demonstrate some interesting fabrication techniques. This will include the use of large shears, brakes, rolls, and bending equipment. Bending techniques will include the use of Hossfeld benders and heating techniques to ensure that the bends occur where you want them. He will also demonstrate a shim/build system that he has designed to make welding quicker and more efficient. Beyond this, Doug will demonstrate enameling and his technique for forging a flower. If you are on the forged side of the "forged vs. fabricated" discussion, Doug noted that many of the things he learned as a fabricator have improved his forging skills.

Harold will do a presentation on welding for hobbyists and artist blacksmiths. He will cover basic welding theory, power sources ( Several will be on display to demonstrate with.), welding processes, carbon arc gouging, other cutting processes and selecting the correct filler metal for your projects. If time permits there may be some hands-on work, so bring your favorite hood, safety gear, and a note pad.

Kevin will demonstrate how machining can be useful to blacksmiths. There may be a chance to get some hands-on machining experience too.

Registration begins at 8:00 AM, the demonstration starts at 9:00 AM.

Registration fee: \$15 for members, \$20 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.

**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 made specifically for iron in the hat, something you don't need in your shop, a great book, a t-shirt, a hat ... something an AABA member would enjoy.

**Directions to Potter USA**

1934 East 18th Street, Tucson, AZ

- Speedway (Exit 257 on I-10) to Campbell Ave.
- Campbell south to Broadway.  
(Campbell becomes Kino Pkwy at Broadway.)
- Kino Pkwy south to Winsett (about 0.6 mi.)
- East on Winsett to Campbell Ave.
- South on Campbell Ave. to E. 18th St.
- East on 18th St. around a slight curve to 1934.

**As always, safety glasses are required.**

## Our May Demonstrators

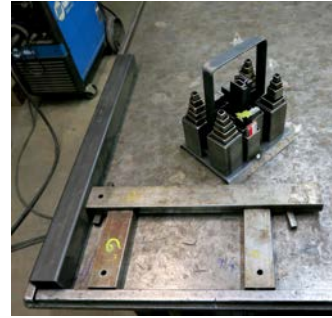
### Doug Thompson

Doug has been a professional blacksmith and fabricator in Tucson for over 30 years. His work ranges from contemporary pieces to historic restorations, and his pieces can be seen in many public spaces and private residences through the United States. And he is constantly working on improving and teaching. "As a craftsman, I feel it very important to be constantly engaged in improving ones ability and passing on my craft to others."



*How easily can you make all these bends virtually identical?*

*Doug's shim/build system*



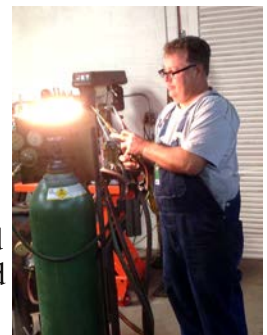
### Harold Hilborn

Harold took my first welding class in high school in 1977. The following summer he started to earn money working as a weldor repairing farm and construction equipment. He continued his welding education with another advanced class in high school and then spent two years at Ferris State University in the welding technology program. Since then he has had a wonderful 38 year career working as a welder, welding inspector and welding educator.

"I have been a member of the Arizona Artist Blacksmith Association for 20 years now and over the years I have helped many people with there welding questions and problems. So the demo I would like to present to you will be based on welding principals and practices for hobbyist and blacksmith."

### Kevin Potter

Kevin began as a fine jeweler in Tucson in the late 1980s. He worked up his own line of jewelry that was sold in stores throughout the U.S. He also gained experience using machine tools while attending the University of Arizona where he received a BFA in drawing/painting. Building on that experience, he started his own machine shop where he made stainless steel jewelry. He also started making sliversmithing stakes and sold them on-line in various artist communities. He gradually began to make other tools and he now makes and sells high quality hydraulic jewelry presses and a broad range related tools and accessories.





## **HOSSFELD BENDER**

### **Friend or Foe?**

by  
**Loren Tollefson**

So you've gotten into this blacksmithing thing, huh? Went around to yard sales and auctions until you have enough equipment to set up a genuine shop? Your spouse's gardening shed is going to have a new look with a chimney coming out of it, and all sorts of strange noises, too. The car is now in the driveway since it's place is taken up by peat moss, sphagnum moss, and a few other mosses you never heard of.

Let's see now. You've got a forge, coal, and anvil, hammers, fullers, tongs, swage block, punches, and some new bar stock. You've read up on how to start and stoke a fire, how to draw out a rod, how to start a scroll, how to make a chisel, and on and on.... But nowhere does it say or show anything about that there horsefield bender that you picked up at auction after the auctioneer and others assured you that it was the neatest thing since sliced bread and would make your life infinitely easier. Worse yet, nobody you talk to knows anything about it!!!

Hossfeld Benders, manufactured by Hossfeld Mfg., Mankato, MN are also called Pacific Benders. They are made in two sizes, No. 1 and No. 2, No. 2 being the larger one. Basically they are made up of two U-shaped frames, one stationary and the other moveable around a pivot pin that connects the two together at the open end of the "U". A series of holes in both frames accepts pins and dies made to exert pressure on

mild steel and bend it in specific ways. All die changes are made by simply removing loose pins, not bolts, thereby making changes rapid and easy. The underlying principle behind the machine is that you are able to exert a tremendous amount of force by leverage and therefore don't have to heat the material before bending it.

I went to work in an ornamental iron shop in September, 1969 while going to college. I knew how to do a rudimentary job of welding, but that was about all. I soon learned to cut, deburr, clean, layout, and paint. But the most daunting task was learning to set up the Hossfeld. I just knew I would never pick it up. It wasn't long until I began to see the different applications, and common sense was all it took to expand my horizons. That and a boss who had used one since 1955.

Throughout My career in structural and miscellaneous, I have hired and fired a lot of people. I would at first ask a prospective welder to set up the Hossfeld to see if they were really as experienced as they claimed. Very few had even heard of one. They are more at home in small shops where fancy automatic equipment is seldom available, and expecting most welders to know how to use one was faulty on my part. I quit asking for experience in the use of one and concentrated on teaching new employees how to use one, one setup at a time. I have visited numerous other steel shops where they have a beautiful setup, complete with hydraulic power, collecting dust in the back corner. When I asked about it, invariably I was told that it wasn't worth the powder to blow it to hell or some

other variation on that saying. It always boiled down to not knowing how to use it.

When I set up my shop in Pine in 1989, one of the first investments I made was a No. 2 Hossfeld, with standard dies. With these, I am able to bend up to 3/8" by 4" flat bar to a right angle, cold. I can roll perfectly round rings of material such as 1/2 round, flat bar, square bar, or angle iron. I can make perfect eyes of any diameter using round or square bar. I can roll angle iron lip out or in to an infinite number of radii. With the standard dies I can roll tubing or standard pipe up to 2 inch without deformation.

Hossfeld Benders are available through authorized dealers. The local one is ACC Machinery, at 7th Ave. and Grand in Phoenix. In addition to standard dies, literally dozens of specialty dies are available to do such things as bending moulded railing cap sideways. It's been my experience that once you learn the basics, you can make up your own dies for very little expense. If you have a production job, or limited run production, a die purchase can be amortized very easily and with a new set, you will foresee other uses for it.

If you get one, or already have one rusting in the corner, Hossfeld has videos available to show how to set it up. These are also available through Centaur Forge. Instruction booklets are also available from Hossfeld, but it's been my experience that seeing a demonstration in person is far more desirable. Once you have seen it done, the booklets become more understandable.

*Since Doug Thompson is planning to talk about Hossfeld benders at our May demo, here is some additional background on Hossfeld benders for those who aren't familiar with these tools.*

*Reprinted from the Anvil's Horn, May 1997*



# March Demo Report

Bill Ganoe

*Photos by Bill Ganoe*

This demo was a three-day affair from March 25 - 27. From 10 to over 40 of us gathered at Grizzly Iron in Phoenix for various events this weekend. On Friday evening our March demonstrator, John Winer, presented a slide show illustrating some of his experiences and work as an artist blacksmith.

Then came Frank Christiansen's thermite burn. More than a dazzling fireworks display, he was smelting iron and wound up with a small bloom ready to be forged. Frank explained the details of preparing for the burn, executing it, and harvesting the iron bloom. There is a lot of material, in print and on the web, about the preparation and safe burning of thermite. Do your homework before trying this yourself.

Saturday morning, John Winer started his demonstration. He didn't have a detailed goal to start out, but he kept to the theme of the demonstration which was "the fluidity of line". His approach is to build up a stock of parts then see how they fit together. This may lead to some new ideas about how they might fit together better if they were re-worked a bit.

Working to music in the background, he used all of the tools at hand, including power hammer, swage block, and a cone mandrel to produce several pieces with long, flowing lines. His path was to go through a state of chaos to something nice. And something nice is what he had by late Sunday afternoon.

We had the usual Iron-in-the-Hat raffle. After that a swage block that had belonged to Hap Danielson was raffled off separately to benefit the blacksmith shop at Sahuaro Ranch. Hap had devoted lots of time and energy to operating and maintaining that shop.

At the end of the day on Saturday, several of us gathered at Doug Kleunder's home for some bring-your-own refreshment, good conversation, and some bantjo picking by John Winer.



*Load the thermite into nested flower pots, light it with a road flare, and let the molten iron and slag drop into a high-temperature crucible.*



*Time for the pyrotechnics.*



*Starting to forge the iron bloom*

## March Demo Report (cont.)



*Checking progress*



*Lever for applying extra pressure  
for drilling*



*Working on flowing curves.*



*Making tight bends.*



*Ball head rivet*



*Preparation for installing the ball  
head rivets*



*Something nice*





## Ypres 2016

Ypres 2016 is 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](mailto:stevemiller.az@gmail.com), collected forged poppies at our March demo to ship to Belgium.



For more information on Ypres 2016 check out  
**[www.ypres2016.com](http://www.ypres2016.com)**  
There is a video on making the poppies at  
**[www.ypres2016.com/design/making-the-poppies](http://www.ypres2016.com/design/making-the-poppies)**.



*Members and friends in the Phoenix area who made poppies*



*Some of the poppies made by the Phoenix area people.*



*Making poppies at the March Open Forge at Harold Hilborn's in Tucson*



*Some of the poppies made at Harold's shop.*

## Interesting Website: Francis Whitaker Video

<http://www.video.unc.tv/video/2365018833>

A 30-minute archive edition of the Folk Ways series from UNC TV: "Fire and Forge (Blacksmithing)" features Francis Whitaker forging at the John C. Campbell Folk School in Brasstown, North Carolina. (Aired on University of North Carolina TV on 10 Mar 1997)



## 2016 Botanical Blacksmiths at The Arboretum in Flagstaff

This marks the 5th year anniversary for this exhibit at The Arboretum in Flagstaff and the 35th anniversary for The Arboretum itself so they would like to make this the biggest and best exhibit yet. The Arboretum officially opens on April 15th and they would love to have some work in place by then but the official opening for our exhibit will take place June 18 with installation of ironwork occurring prior to that.

Some smiths have already committed to bringing work up for the April 15 opening and Rachel Wilson, the fiber artist who participated in last year's exhibit, will have some colorful banners on display for the opening. In addition to our normal display area along the main garden path leading out of the Visitor's Center, we will be expanding to include the area around the pond. This will provide us with some more display areas and some new inspiration. Rachel Wilson will also be creating an installation piece for the pond so that should attract additional attention to the area. The Arboretum is also installing a butterfly house in the open field at the end of the path where we have been displaying our ironwork. So there should be a lot of excitement and interest in The Arboretum this summer.

The Botanical Blacksmiths exhibit will officially run from June 18 through September 16 but early installation to coincide with the April 15 opening of The Arboretum is encouraged.

If you are interested in participating, please email Cathi Borthwick ([flag\\_forge@earthlink.net](mailto:flag_forge@earthlink.net)) or call her at 928-890-9609 to let her know that you want to participate, what you will be exhibiting (if you know), and when you want to install it.



*Works by Rachel Wilson and Cathi Borthwick at the Arboretum at Flagstaff.  
(Photo by Ken Walters.)*

## Calendar 2016

May 8	Open Forge	Desert Rat Forge	Cave Creek
May 14	Demo - Potter & Thompson	Potter/Thompson shop	Tucson
June 12	Open Forge	Desert Rat Forge	Cave Creek
July 10	Open Forge	Desert Rat Forge	Cave Creek
July 13 - 16	ABANA 2016	Utah State Fairgrounds	Salt Lake City, UT
July 30	Demo	TBA	Flagstaff
August 14	Open Forge	Desert Rat Forge	Cave Creek
September 17 - 18	Demo	Bill and Karen Morris' home	Camp Verde

### Classes at Pieh Tool Beginning/Intermediate Blacksmithing with Gordon Williams

May 6-8, 2016  
\$550 for three days of classes at Pieh Tool in  
Campe Verde.

For complete details and call 928-554-0700 or  
browse to [www.piehtoolco.com](http://www.piehtoolco.com).

### Welcome New Members

Dennis Van Gorp	Superior, AZ
Jeff McIntosh	Tucson, AZ
Glen Bennett	Tucson, AZ
Wes & Travis Helzer	Tucson, AZ
Beatrice Perret	Glendale, AZ
Austin Mills	Green Valley, AZ
Brock Phalen	Phoenix, AZ

### Submit Your Touchmark

Submit a JPEG of your touchmark(s) to Steve  
Miller, [stevemiller.az@gmail.com](mailto: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 for  
AABA members. Email your requests or  
suggestions to [stevemiller.az@cox.net](mailto:stevemiller.az@cox.net)

### Deadline for the July 2016 issue

May 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](mailto:editor@azblacksmiths.org)

or by regular mail to:

Bill Ganoe, PO Box 40233, Tucson, AZ 85717

### 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](http://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](mailto: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](http://www.azblacksmiths.org)

## Open Forge: Tucson

Open forges in Tucson are suspended until September. Check for the updated schedule in the July issue of the Anvil's Horn.

## 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. **You will need to wear safety glasses. Hearing protection is recommended.**

## Open Forge: Desert Rat Forge (Phoenix area)

Paul Diefenderfer will host an open forge on Sunday, May 8, Sunday June 12, and Sunday, July 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](mailto: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](http://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**

# The Ornamental Ironwork of Buenos Aires, or What I Did On My Spring Break

Bill Ganoe

*Photos by Bill Ganoe unless otherwise noted.*

Buenos Aires, Argentina, is noted for an abundance of beautiful ornamental iron work. In fact, this ironwork has been said to rival that in Paris, London, and New York City. But most of this ironwork was created before about 1930, and, since then, because of political changes and the resulting cultural changes, little time or expense has been devoted to caring for this iron work or to creating new ironwork.

Recently, however, interest in preserving and restoring the ironwork of Buenos Aires has started to grow. People in Argentina and elsewhere, have mounted a serious effort to accomplish this. As part of this effort, a group of blacksmiths, architects, and other artists went to Buenos Aires early this year to meet with their counterparts in Argentina. The purpose of the trip was a joint effort to create a couple of sculptures to be donated to the City of Buenos Aires. The effect was to meet counterparts, to share knowledge and skills, and to initiate friendships and relationships that could help in the restoration and preservation of existing ironwork, and, maybe, in the creation of new ornamental ironwork in and around Buenos Aires. The group included people from California, Arizona, Utah, Wyoming, Colorado, Alaska, Texas, Michigan, and Tennessee, as well as one blacksmith from St. Petersburg, Russia. I was the guy from Arizona.

After recovering from mild jet lag on February 29, our adventure began on March 1. with visits to major sites around the city such as the Recoleta Cemetery (where many important Argentines have been interred since 1822), the magnificent Teatro Colón (Columbus Theater), the Municipal Cathedral, the Plaza de Mayo (where, on May 25, 1810, the revolution began which led to independence from Spain in 1816), as well as walking through several areas to see ornamental iron work. The second day involved more walking and closer inspection of more iron work in the San Telmo and La Boca neighborhoods. The next day, we set up a blacksmithing area in Plaza Irlanda where we would work with Argentine blacksmiths to create the proposed sculptures. The next three days involved a

lot of hammering and working hot steel. It also involved making new friends, demonstrating the craft of blacksmithing to people walking through the Plaza, teaching the most basic blacksmithing skills to some very excited children when they stopped by with their parents, and teaching classes for beginning Argentine blacksmiths on subjects like making tongs and forging bronze.

We had to leave the Plaza at the end of the third day, and we had minimal lighting available to record the almost-finished sculpture that evening. The sculpture is currently in storage awaiting permanent mounting by the city of Buenos Aires. In other words, I don't have good photos of the completed sculpture yet.

The next day found us traveling to a guest ranch about 40 miles outside of Buenos Aires where we were treated to some horse back riding, a good dinner including Argentine beef, and a show of gaucho horsemanship. Finally, on March 9, the last day of our trip, we gathered in small groups and wandered off in different directions to visit museums downtown, walk through other city neighborhoods to see more ornamental iron work, to shop for gifts and souvenirs, and so on.

The U. S. organizer of the trip, Jerry Coe, an architectural blacksmith from Berkeley, CA, is a big fan of Argentine tango. And there were about 10 other people, including me, on the trip who are tango fans. Daytime usually involved blacksmithing and touring the city, but the evenings usually found several of us at one of the many tango venues in the city. At other times we were treated to fiddling and banjo picking by John Winer, as well as music and jam sessions with John, other members of our group, and people from Buenos Aires.

It was a great trip with an amazing group of people. New friendships developed, new professional relations grew, and several SD cards were filled with photos. And, yes, my limited Spanish skills improved quite a bit during this trip.



# The Ornamental Ironwork of Buenos Aires, or What I Did On My Spring Break (cont.)

Bill Ganoe

*Photos by Bill Ganoe unless otherwise noted.*

If you would like to see more of the ornamental iron work of Buenos Aires, check out the Facebook group "Puertos, Portones, y Rejas de Buenos Aires" at [www.facebook.com](http://www.facebook.com).

If you would like more details about this particular trip, check out Victoria Patti's interview with Jerry Coe at <http://www.blacksmith.com/episode-59-jerry-coe-tango-blacksmithing/>



*Our home in Buenos Aires*



*Grill at the Evita Museum  
(Photo by Hugh Lovell)*



*Dragon at the Evita Museum*



*Balconies*



*Grill on a small mausoleum  
in Recoleta Cemetery.*



*A mausoleum in need of a  
little TLC.*



*A well-guarded  
mausoleum*



*Details of the grill work in front of the mausoleum to  
the left.*



# The Ornamental Ironwork of Buenos Aires, or What I Did On My Spring Break (cont.)

Bill Ganoe

*Photos by Bill Ganoe unless otherwise noted.*



*Misc. iron work*



*Team striking*



*A site-built forge.*



*Team work  
(Photo by Hugh Lovell)*



*Need a power hammer?  
No problem.*



*Punching practice*



*Need another forge right  
away? No problem.*



*Start 'em young.  
(Photo by Hugh Lovell)*



*John McLellan's tong making  
class. Wayne Howell provided  
the Spanish translation.*



*Jerry Coe's bronze  
forging class.*



# Gallery



*Roger LaBrash*



*Roger LaBrash*



*Harold Baldwin*



*Harold Baldwin*



*Peter Sevin*



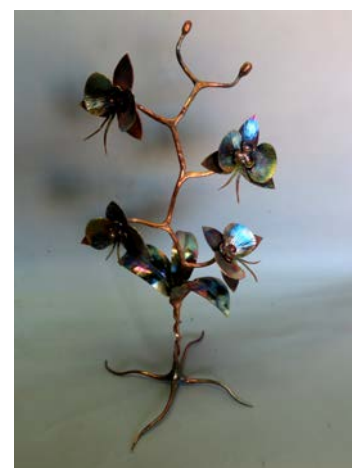
*David Bridenbaugh*



*Wade Smith*



*Josh States*



*Wade Smith*



## 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](http://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](mailto:centraloffice@abana.org)**

**Utah State Fairpark: Information**  
155 North 1000 West, Salt Lake City UT 84116  
**[www.utahstatefairpark.com](http://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](mailto:stevemiller.az@cox.net)

Ivan Hill has arranged for special event rates for some motel rooms in Salt Lake City for ABANA 2016 this summer. You get a room with 2 queen beds for \$99 for up to 3 nights during the ABANA Conference. (Check current availability. You may be able to get that rate for more than 3 nights.)

It is at the Ramada Inn at 2455 S. State St., Salt Lake City. Reservations must be made before May 13, 2016 to qualify for this rate.

Call Derk Sanderson at 801-486-2400 and give him the code "AABA613". Derk assured Ivan that the motel can provide shuttle service to and from the ABANA conference site (Utah State Fair Grounds).



# **ABANA Conference July 13-16, 2016**

The following is our demonstrator lineup for the 2016 ABANA Conference

Some demonstrators will be conducting simultaneous Workshops. These hands-on sessions will be offered in segments to give registrants an opportunity to try the techniques.

A detailed event schedule is available at:

**[http://abana.org/Conferences/2016/contents/en-us/d56\\_Site\\_Map.html#p80](http://abana.org/Conferences/2016/contents/en-us/d56_Site_Map.html#p80)**

## **Blacksmithing**

John Barron: Forging Workshop  
Monica Coyne: Forging Demo  
Roberto Giordani: Forging Workshop  
Jake James & 12 helpers: Forging Demo  
Heiner Zimmermann & Rick Smith: Forging Demo

## **Knife and Axe Making**

Jim Austin: Viking Axe demo  
David Lisch & Andrea Lisch: Knife: Finishing processes  
Ray Rybar: Damascus Billet workshop

## **Non-ferrous Forging and Metalworking**

Charles Lewton Brain: Foldforming workshop and demo  
Jack Klahm: Forging Bronze & Aluminum  
Douglas Pryor: Repoussé on steel, Armor  
Fred Zweig: Repoussé workshop

## **Farrier Forging Tent**

Dave Farley, Tom Willoughby, Roy Bloom: Forging various projects

## **Lectures/Workshops, Special Guests**

Paul Boulay & John Graham: Photography workshop  
Bill Hochella: Metallurgical discussions  
Jeff Jubenville (Paley Studio): Working in the Paley Studio  
Sculpt Nouveau - Ron Young: Patina lecture and workshop  
Heiner Zimmermann, Rick Smith, Delyth Done: The future and direction of Blacksmithing  
Rozmberk Society of the Czech Republic - Exhibition with an interactive demonstrations

## **Teaching Tents**

Adult Teaching Tent and Evening Forging Competitions  
Mark Aspery, John McLellan, Gerald Boggs, Gerald Franklin

Youth Teaching Tent  
Jay Bernham-Kidwell, Jeff Dunkelberger,

# Classifieds

Classified ads are free to members and can be submitted by email to: [editor@azblacksmiths.org](mailto: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](http://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](mailto: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](http://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](mailto: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](mailto: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.



# Classifieds

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

## 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](mailto: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](mailto: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](http://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](mailto:barubarranch@gmail.com)  
website: [www.barubar.com](http://www.barubar.com)

### A Copper Rose Metal Art

Chasing/Repousse Pitch  
Debra Montgomery  
[www.chasers-pitch.com](http://www.chasers-pitch.com)

### Brent Bailey.

A blacksmith in California specializing in custom tools and ornamental forgings for artisans.  
[www.brentbaileyforge.com](http://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](http://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](mailto: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](mailto:trp555@prodigy.net)



*The new blacksmith shop at the Pima County Fairground. It was built to house the tools and equipment from the William Flores & Son Blacksmith and Welding Shop in Tucson. These items were donated to the Southwestern Fair Commission by the Flores family after the death of William Flores, Jr. Several local smiths will be demonstrating in this shop during the Pima County Fair, April 14 - 24, 2016.  
(Photo by Rich Greenwood)*