

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 211 July 2021



The Iron Queen
Created by Jodie Bliss
for the AABA demo video for May 2021.

President's Message

Hey Everyone!

Our first in person demo in almost a year and a half is almost upon us! Steve has been organizing quite the reunion event and I hope you don't miss it. I want to thank you for sticking with the association through these crazy times. We've all learned many lessons through this experience. One of those is the importance of our relationships with others. In the past many of took for granted the ability to see our friends in person whenever we want, the ability to celebrate and reminisce over a beverage together, or get that much needed hug. Moving forward, let's remember what makes groups like ours so special. You. Without our members and the relationships I've gained, I know that I probably wouldn't be a member, and I'm sure that's the case for many of you. The fact that we all enjoy the same craft us just icing on the cake!

I can't wait to see you in September!

Jason LaBrash

Contents

3	July (virtual) Demo Announcement	12-13	Beginner/Intermetediate Level Blacksmithing Class at Pieh Tool in Camp Verde
3	September Demo Preview		
4	Winterfest IV Information	14	Members Projects: Easy Candle Cups
4	ABANA Iron to Art Festival	15	Members Gallery: David Flynn
5	150mm Challenge	16	Ask The Old Fart
6	CBA Roaring Camp Hammer-In	16	Gordon Williams' Demonstration Perception
6	CBA Spring 2022 Conference	16	Turn Your Iron Into Copper [appearance]
6-7	May Demo Report	17	ABANA information
8-9	Botanical Blacksmiths: Past, Present, Future	18	Members' ads
10-11	AABA Calendar, New Members, Open Forges, and other news	18	Benefits of AABA Membership
		19	Sources for tools and materials
		19	AABA Membership Form

AABA OFFICERS and BOARD OF DIRECTORS

President: Jason LaBrash, Phoenix, AZ, 602-716-9660, jason@grizzlyiron.com
First VP: Steve Miller, Scottsdale, AZ, 602-989-6505, stevemiller.az@cox.net
Second VP: Richard Rozinski, Gilbert, AZ, 602-803-7255, neogod52@gmail.com
Secretary: Terry Porter, Gilbert, AZ, 480-313-7942, trp555@prodigy.net
Treasurer: Ali Merriman, Cornville, AZ, 612-385-5981, highwaystar1340@aol.com
Web Master: Paul Diefenderfer, Cave Creek, AZ, 602-509-1543, dief@phoenixrockgym.com
Librarian: Jay Griffin, Peoria, AZ,, 623-349-1422, jay.griffin@rtznj.com
Editor: Bill Ganoe, Tucson, AZ, 520-326-5478, editor@azblacksmiths.org
Directors: Dylan Cook, Jaime Escobedo, Bill Ganoe, Rich Greenwood, Ivan Hill, Peter Jonasson, Len Ledet, Sam Rivera, Peter Sevin, Ron Wicklund, Ira Wiesenfeld

Material submitted for publication in the Anvil's Horn may be edited or rejected by the editor. Material submitted must be your own work, not plagiarized. By submitting material, you agree to allow AABA to edit, print, or post on the AABA website. You also give permission for the material to be reprinted by other blacksmith publications (i.e. publications of ABANA and of ABANA affiliates). **Copyright.** The creator may retain copyright for the work. If we publish a copyrighted item, consent of the copyright holder will be obtained before publication. **Graphics.** High-contrast, high-resolution digital picture files and original drawings are preferred, but we can work with lower-contrast, lower-resolution graphics.

The Anvil's Horn is printed by Sundance Press, Tucson, AZ
The Anvil's Horn is created with Scribus 1.4.8

Demonstration: July 2021

A virtual demonstration

The video link will be posted in the September issue of *The Anvil's Horn* and on the AABA website at www.azblacksmiths.org

Demonstrator: Jaime Escobedo

Jaime will demonstrate a scrolling fork.

Jaime Escobedo has been blacksmithing since 1994. He started by making branding irons and small decorative items for western décor. After joining the Arizona Artist Blacksmith Association, Jaime was able to increase his knowledge and skills by attending several training courses sponsored by AABA. His membership also opened the doors to other advanced training courses out of state, such as a stake repousse course in Boise, ID with Nahum Hersom, a stake repousse course in Moriarty, NM with Wendell

Broussard, and attendance of several ABANA conferences. In 2004, Jaime was requested to develop and teach the Mesa Community College Basic Blacksmithing course where he continues to teach. Jaime was one of the original AABA committee members of the Read Carlock Memorial Scholarship fund, helping to draft the scholarship criteria and arranging for the annual banquet and auction. Jaime is a frequent contributor to the annual scholarship auction and the Winterfest conference.



< *Examples of Jaime's work* >

Coming Attractions

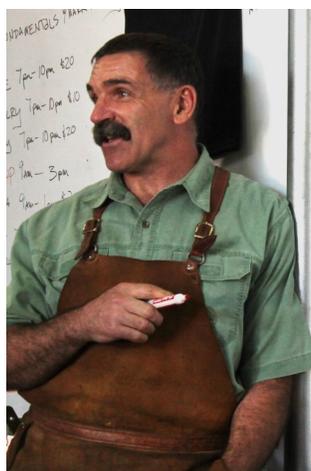
We are going to return to in-person demonstrations in September.

Saturday, September 18, 2021, Camp Verde

Demonstrator: Mark Aspery
Level III Grille

Demonstration: 9 AM - 3 PM.
BYO BBQ in the evening with live entertainment.

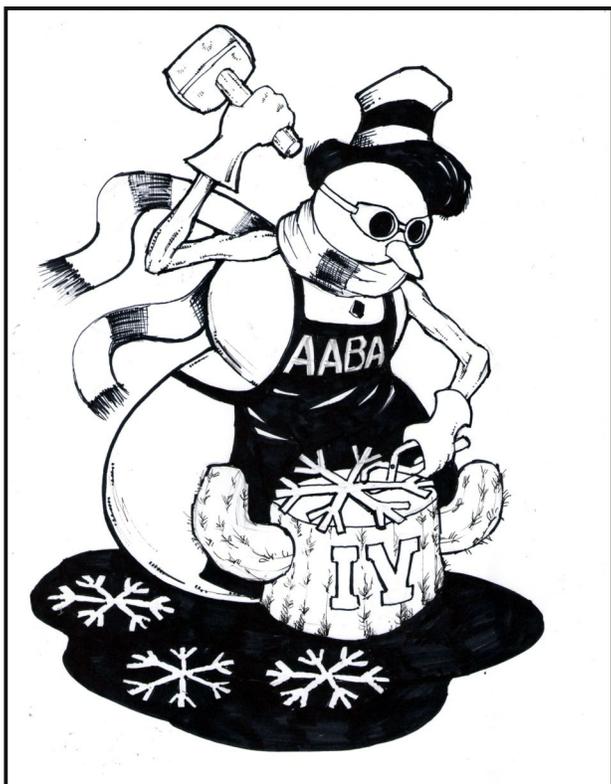
This demonstration will be in Camp Verde near I-17. Camping and some lodging will be available on-site. Look for full details in the September issue of *The Anvil's Horn*.



Mark will conduct a workshop on the Level III Grille on Sunday, September 19, 2021, 8 AM to 3 PM. Limit 12, \$100 Ea. Contact Steve Miller, 602-989-6505, to sign up. Material Fee may apply depending on the cost of steel at the time. BYO basic tools, safety glasses, and anvil if you have one. We will need a couple of additional forges and anvils if you can bring some.

Coming Attractions

Winterfest IV is coming in 2022!



Winterfest IV was planned for January 2021, but has been postponed until January 2022 because of the continuing COVID-19 pandemic. Detailed planning and organizing is underway. Standby for volunteer opportunities. Some great surprises planned.

Other Events of Interest

ABANA *Festival*

IRON TO ART



2021
JOHNSTOWN, PA

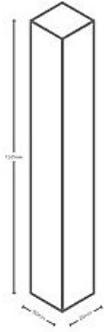
For 47 years, ABANA has not had a place to call home.
In 2020, the Board of Directors voted to give ABANA a permanent home in Johnstown, PA.
Johnstown has a rich historical presence in the Steel and Iron industry.
You don't want to miss this!

Demonstrators:

The Patient Order of Meticulous Metalsmiths	<i>Ellen Durkan</i>	The Teaching Tent:
<ul style="list-style-type: none">• <i>Tom Latane</i>• <i>Peter Renzetti</i>• <i>Kevin Clancy</i>• <i>Tina Chisena</i>• <i>Carl Close</i>	<i>Bruce Jarrell</i>	<ul style="list-style-type: none">• <i>Jeff Dunkelberger</i>• <i>Steve Hotz</i>
	<i>Jennifer Petrila</i>	
	<i>Patrick Quinn</i>	
	<i>Peter Ross</i>	
	<i>Bob Valentine</i>	

More information at: https://www.eventsquid.com/event.cfm?event_id=11749&fromdash

Other Events of Interest



#150mmchallenge

Curated and Produced by Delyth Done, Project Concept Ambrose Burne, Hereford College of Arts, UK. Toured in the USA by ABANA - Artist-Blacksmith's Association of North America

Touring Schedule

August 1 - October 16, 2021: Heritage Discovery Center – Johnstown, Pennsylvania.

Sponsored by the Johnstown Area Heritage Association.

<https://abana.org/donation-to-the-150mm-challenge-exhibition/>

How creative are you? What can you make from a piece of steel about 3/4" x 3/4" x 6"? Here some examples of what other blacksmiths have created from a piece of steel like this. They are part of the #150mmchallenge exhibition.



The Anvil's Horn



July 2021

Other Events of Interest

Roaring Camp Hammer-In*
Aug. 20-22 Felton

Demonstrators:
Beth Holmberg - "The Charms of
Railroading"
Two other workshops currently TBD

Mask Making Competition

Full Event \$120 Early/\$130 Late
Single Day: \$80 Early/\$100 Late
Late Date is July 31

Limited camping, motels and hotels nearby.

State and federal Covid
requirements will be
followed.

Max 50 registrants.
Check the CBA website for
registration and the latest
info.



For More Info:
Anna Bobisuthi, abobisuthi@gmail.com

<https://www.calsmith.org/event-4256674>

Save the Date
CBA Spring Conference
Petaluma, CA



April 21-24, 2022

Come Together

May Demo Report

Our May demo is available in this video:

<https://www.youtube.com/watch?v=sucFsJ9fcxw>

Since we aren't meeting in person for these demonstrations during the COVID pandemic, please continue to support AABA as you would at the in-person demonstrations by donating through <http://azblacksmiths.org/plans/> (via PayPal) or sending a check, made out to AABA, to our secretary, Terry Porter, at his address on page 19. We still have to pay our demonstrators for their time and materials.



Jodie turned a pre-cut blank...



...into this image of the Iron Queen.

May Demo Report (continued)

Jodie Bliss is a metal artist and uses a lot of fabbing techniques, but she focused on more traditional blacksmithing techniques for this video.

Jodie showed viewers the tools that she was going to use for various steps, explained the effects she wanted to produce with them, used the tools on the workpiece, and then brought the workpiece close to the camera to show viewers what she had done. The camera placement for this video was great.

Jodie uses a power hammer for much of her forging/texturing work these days, but she has a treadle hammer which she uses when she wants to do precise texturing.

Jodie spent a lot of time shaping the face. She noted that getting the shapes and contours reasonable for a real face is not trivial.



< Using a big swage block for big details.



Using a jeweler's swage > block for little details.



< Looks like the face is done.



Texturing the head piece >



< Selecting decorative pieces from a collection of things made for previous jobs.



Applying finishes >

Botanical Blacksmiths: Past, Present, Future

Cathi Borthwick

(Photos by Cathi Borthwick. Unless otherwise noted, all photos show pieces at the Arboritum at Flagstaff during May 2021.)

Past

Well, okay, this isn't exactly Botanical Blacksmiths news, but members of AABA did participate in "Exuberance", an outdoor art exhibit at the Tubac Presidio that ran from November, 2020 through April, 2021. A variety of artwork was installed in the Presidio gardens, and visitors could wander the show on their own or join a guided tour. The show ended with a week long online auction of the pieces in the exhibit. Our ironwork pieces were grouped together in "A Blacksmith's Garden" which contained 10 pieces created by 7 different smiths. The gardens were a beautiful setting for the ironwork and they made an impression - 8 of the 10 pieces sold in the auction (a better percentage than the exhibit in general), and there was some robust bidding on a few of the pieces with them selling for more than the asking price. We have also been invited to have our own exhibit at the Presidio and that will be discussed in future news.

Present

The 10th annual rendition of the Botanical Blacksmiths exhibit at The Arboretum of Flagstaff is up and running. It opened to the public on May 9 and will close on October 3. This year's exhibit features 31 pieces by 9 different smiths. It's no secret that last year was a challenging one. The Arboretum grounds were open to the public but all buildings were closed and all events cancelled. In spite of that, we had a good year both for participation and sales. This year holds the promise of being much better. The grounds and some of the buildings are open to the public and

a variety of events are being planned. People are enthusiastic about getting out and exploring and The Arboretum is on their list of places to go. There has been a good response to the show, and several of the exhibit pieces have sold already. Hopefully, you will find the time to visit the cool pines this summer, check out the exhibit, and start planning what you will enter into the show next year. However, if you can't make it up to Flagstaff you can still see what pieces are in the exhibit by visiting The Arboretum's website:

<https://thearb.org/product-category/botanical-blacksmiths/>

Future

Have you heard? We've been invited to bring the Botanical Blacksmiths to the Tubac Presidio this winter. The exhibit is scheduled to run from November 15 through March 31 to take advantage of their high season. Unlike the "Exuberance" exhibit that included artwork from a variety of mediums, this exhibit will only include ironwork. This is a very good setting for us. The ironwork fits into the historic context of the Presidio and the spaciousness and openness of the desert gardens provide a great exhibit venue. There was a very good response to the ironwork in "Exuberance" so this is a great opportunity to show off the art of blacksmithing. More specific details about the exhibit and how to enter will be provided, soon but it's not too soon to start planning what you will enter in the show!



Note: Many of these pieces combine steel and stone following the theme of our May 2021 demo. - Ed



*Twisted Buttercups
David Bridenbaugh
Exuberance show at
the Tubac Presidio*



*Flower Patch
Cathi Borthwick*



*Mountain Top
Steve Miller*

Botanical Blacksmiths: Past, Present, Future (Cont.)



Bee Happy
Liz Carlier



Imitating Orchids
James Schremp



Wild Ocotillo
Roger "Grizz" LaBrash



Train Brake Botanical
Ira Wiesenfeld



Turquoise Flower
Steve Miller



Rock Garden
Cathi Borthwick



La Cloche
Liz Carlier



Horseshoe Cactus
David Bridenbaugh



Tree Dangles
Scott Sweebe

AABA Calendar 2021

July	Demo - scrolling tongs	Jaime Escobedo	On line
September 18	Demo - Level III grille	Mark Aspery	Camp Verde (details TBA)
September 19	Workshop - Level III grille	Mark Aspery	Camp Verde (details TBA)
November 20	Demo	Jymm Hoffman	Mesa Community College

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, Monday and Wednesday evenings with instructors Richard Rozinski and Robert Ratliff, Tuesday and Thursday evenings with instructor Robert Ratliff, and on Saturdays with instructor Jaime Escobedo. Blacksmithing is listed as WLD103 in the class schedule.

Class in TIG, MIG, Arc, Gas, and Art welding 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, 2020. Watch The Anvil's Horn for upcoming events at the Sahuaro Ranch blacksmith shop.

Deadline for the September 2021 issue

August 1, 2021 is the deadline submitting photos and articles for the September 2021 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

Derek Bailie	Peoria, AZ
Mike Rich	Queen Creek, AZ
John Nuccio	San Tan Valley, AZ
Brent Brockett	Tempe, AZ

Classes at Pieh Tool Beginning/Intermediate Blacksmithing

- Beginning/Intermediate blacksmithing classes with Dylan Cook:
The new class schedule will be posted in late July or early August.
Registration is \$570.
Students will make several simple projects to take home.

- Knifemaking class with Master Bladesmith, Ray Rybar:
The new class schedule will be posted in late July or early August. Registration is \$570.
Students will make one knife.

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

Workshops in Tucson

If you are interested in either of these workshops, Sam Rivera wants you to know that he hasn't forgotten about you or the workshops. He's just gotten really busy in the last couple of months. He'll get back to working on these workshops when business gets a little less crazy.

- Refacing old anvils

Sam is definitely going to run the anvil repair workshop. He's just working on the scheduling.

- Building a Ron Kinyon vise.

Sam is looking for people who would be interested in building a vise designed by Ron Kinyon. (see The Anvil's Horn, March 2012.)

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

We expect AABA open forges in Tucson to resume in September or October, but we don't have dates yet. There may be some pick-up events now and then before we get back on a regular schedule. Check <http://www.desertmetalcraft.org>, for upcoming events at Desert Metal Craft. If you are on the email list for southern Arizona, you will get notices about any short-notice 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, Wednesdays from 5:00 PM to 8:00 PM, more or less, . Pre-registration is required. There may be changes in dates, times, and restrictions, and those changes may be made on short notice during the COVID-19 pandemic. Check <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, July 3, and Saturday, August 7, 2021, 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, park along the north edge, and walk 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 DMC website, <https://desert-metal-craft.square.site>, 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.

Beginner/Intermediate Level Blacksmithing Class at Pieh Tool in Camp Verde

Jeremiah Toller

(Photos by Jeremiah Toller.)

With hammers in hands, we forged our journey into the fundamentals of blacksmithing at the Beginner/Intermediate Level Blacksmithing Course at Pieh Tool in early May, and it proved to be an exceptional experience.

The three-day class in Camp Verde was a bit of an intensive, working a number of different techniques into three, 11-hour days. Instructor Dylan Cook of Oso Blanco Ironworks managed all of it in a way that was easily comprehensible and efficient.

Cook is a talented and patient instructor who welcomed questions and knew when to provide individualized assistance without taking our projects out of our hands and doing it himself. If a mistake was made, he instructed us on how to recover. If a project suffered an irreparable failure, he encouraged us to turn it into something else to prevent waste of our materials and time while giving the satisfaction of completing a project, in addition to explaining what caused the issue and how to avoid it in the future. His teaching style includes drawn diagrams, easily assimilable explanations, and demonstrations that he would typically repeat at various tempos to ensure comprehension.

Pieh Tool is in an easily accessible strip of business facades about 4 miles East of Interstate-17, on Howards Road, a frontage road a few yards parallel to AZ 260 East. As a retail location which sells blacksmithing equipment, the workshop experience can be expanded upon by simply browsing the tool selection and figuring out what each tool or product does, thereby increasing one's knowledge of the possibilities one has with blacksmithing. Being able to take home an anvil, forge, hammer, tongs, brushes, patina, books and really anything needed for blacksmithing (besides steel) is certainly a bonus.

The workshop is on the backside of the business, and consists of enough forges, anvils, tool racks, hand tools, water quenching buckets, and post vises for all six students to each have their own workspace without infringing upon anyone else's space or basic tools. This was modified slightly after the first day grew much hotter than expected, resulting in cutting the forges down to three. This decreased the temperature in the workshop significantly, with forge sharing producing too few obstacles to affect the experience. Still, each student had their own anvil, a

1000g straight pein hammer, an 800g straight pein hammer, a smaller rounding hammer, ball pein hammer, scrolling pliers, and 4 different sets of tongs. Each tool was distributed at the start of the class by Dylan, who explained their function and proper etiquette for use while doing so. Each tool rack had ample space for holding each item and keeping them organized, along with a shelf for hot items.

In addition to our basic tools, there was also a Baldor belt grinder, Jet drill press, Dewalt chop saw and angle grinder, and a Sahinler power hammer which we all took turns using when needed. Guillotines with various dies, fullers, punches, drifts, swage blocks, hardies, rawhide hammers, scale and burnishing brushes, and myriad other small tools were also available for shared use.

The class started with an overview of the tools and equipment, how they function and what they do. From the ways various hammers move metal to how to get our forges up and running, there was very little that wasn't covered within the first hour of the class to make a beginning smith feel comfortable, if not confident, with the plethora of new tools at our disposal for the weekend.

With Cook's skillfully arranged sequencing of techniques, each building upon what came previously, we practiced the full range of hammer blows, utilized each part of our anvils, and got a taste of an assortment of sizes and shapes of steel stock from square bar to round pipe, how it reacts to the fire of the forge as well as the subsequent blows from our various hammers as they moved the hot metal as though it were clay.

We were given just enough theory to understand what we were doing and how to apply it, and just enough freedom to make our projects truly our own without being overwhelmed by technicalities or options. We learned to properly heat, hold, hit, and shape our steel into artfully created practical objects and ended up taking home a decorative chain link, a three-hooked rack with leaf accents, a chili pepper (which may or may-not have been a bottle opener), a barbeque fork, a flower, and finally, a hot cut chisel and tongs that we can use for independent forging adventures at home. I've included an image showing most of the projects I completed.

While each technique was challenging in its own

right, to my surprise, what I ended up feeling was the most challenging technique was making leaves. I assume this is due to having seen it done many times by experienced smiths that make it look like they could do it with their eyes closed, leading me to underestimate the skill required to hammer out a good shoulder with which to start the leaf formation. It took a little practice, but once I better understood how to execute half face blows to create a good shoulder, I was successful in forming a few basic leaves. As frustrating as it was, it felt very rewarding to finally overcome such an unexpected obstacle.

As much pride as I took in finally hammering out leaves, and as much attention as my flower received, the project I've taken the most pride in is my hot cut chisel. The process was the most involved since it was the only project that required heat treating, and since I knew I would actually be using this tool in the future, I strived to make a quality tool and was successful in meeting my own standards. This came

with a price, however, as no other project contributed to more new scars on my hands than this one, and I look forward to collecting many more with the help of this hot cut chisel.

All in all, the long hours working in a hot shop were very gratifying, not only because of the physical items we took home, but of all the knowledge gained in the process and the satisfaction of having put the work into it ourselves. I've taken quite a few "art classes" in my time, and this workshop exceeded all of them. I leave the class feeling confident in my ability to continue blacksmithing independently, having grown well enough acquainted with the foundations of blacksmithing, equipment, and tools of the trade to be a competent novice capable of replicating each project on my own. ...even though it might take a few tries.

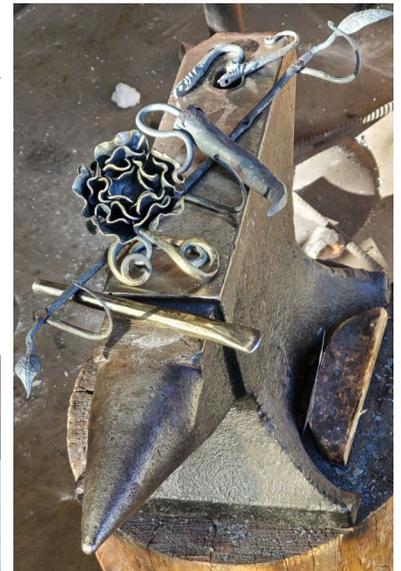


The class listens as Cook explains technique.



The whole class poses for a photo. I am in the back row without glasses.

Most of the projects I created over the duration of the workshop- From top: Twisted hooks from a broken S-hook chain link, a chili pepper, flower, hot cut chisel, with the small item rack with leaves stretching the span of the anvil.



Drawing out a taper on the power hammer.

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

If you are interested in applying for a simliar scholarship, take a look at:

<http://azblacksmiths.org/read-carlock-scholarship/>

Members' Projects

Easy Candle Cups

David Bridenbaugh

(Photos by David Bridenbaugh)

These candle cups are easy to make once you get the procedure worked out. This is how I make them, but, of course, there are different ways to do it. We will be using 3/4" schedule 40 pipe. The actual dimensions of the pipe are 0.824 ID, 1.050 OD and 0.113 wall thickness. It makes me wonder why it's referred to as 3/4", but we won't go down that road today. Cut the pipe to a length of 3.5", and scratch a line all around it at the midpoint of 1.75". This mark won't be used until later, but it's easier to do it now.

The first step is to flare the opening at each end. I made these top and bottom hardy tools to flare both ends at the same time. It would work just as well to flare them on the horn of the anvil with a ball peen hammer. The next step is to use your favorite fuller tool (guillotine, spring fuller etc) to fuller the midpoint down to about 1/4" - 3/8" diameter. Cut them in half and grind the stub down.

The drip tray can be a 3" diameter circle, slightly dish shape. A square (2 1/2") with the corners curled up and slightly dish shape looks nice also. Drill a hole and mig weld the candle cup from the bottom.

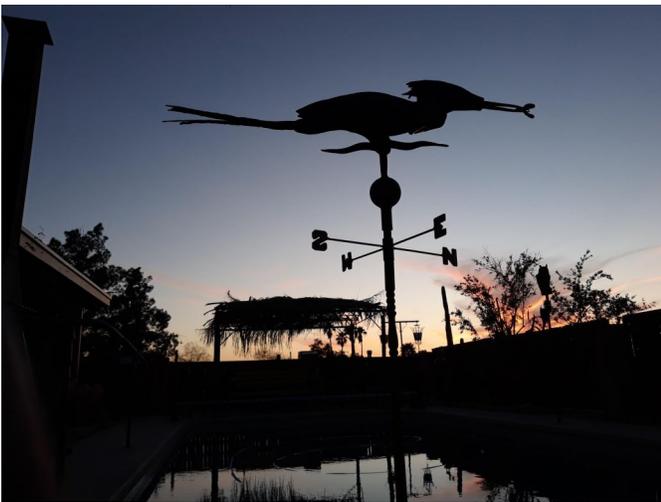


Members Gallery

David Flynn



Rock and Chair. Granite seat with forged iron base made last year. 24"x 48"x 24" high
This piece was inspired by a friend, mentor, and teacher of mine. He gave me the radius tapered arched feet which inspired its making. He also taught me the beauty of combining steel and stone in creating a viable piece of art.
- David Flynn



Road Runner Weather Vane - Forged steel, stainless and brass brush highlights made during pandemic with too much time on my hands. 32"×15"×16" high. Made during pandemic with too much time on my hands. Note the bandana on roadrunner's neck and the snake in the bird's beak. Both good safety requirements.
- David Flynn

Gordon Williams' Demonstration Perception

By Dan Jennings

For many years, when I attended a demo I would go home and try the project and techniques I had seen. I soon realized that watching a demo was a learned skill. Forgetting one little detail would result in failure. Now, many years later, I stress to my students that they need to “pay attention” and “remember to look for the subtle details”. Of course, this doesn't really help, but it makes me feel like I'm leading them in the right direction.

Gordon Williams has taken this concept and created a list of things to look for. So, instead of saying “pay attention” he says “look for.....” So far, it has helped my students successfully perceive the demonstration—maybe it will help you as well.

Each demo tells a story—where does the story begin?

1. What tools are used
2. Size and type of steel
3. Anvil = where the story is worked out
4. Body Position
5. Elevation of steel
6. Angle of strike
7. Progression of strike
8. The body of the story—beginning—middle—end.

Gordon has a list of criteria for developing or changing techniques:

- Is it cheaper?
- Is it easier?
- Does it work better?

Ask the Old Fart

Hey Old Fart – Besides spending lots of time at the anvil how do I become a better blacksmith?

That's easy ya little whippersnapper - Embrace Failure! You heard me right – Embrace Failure. Don't be a failure, just embrace it.

The best way to learn is to push your limits. When you push your limits you are bound to fail and that's where the real learning takes place. I learn more from my failures than I do from a project that goes perfectly smooth. If you aren't afraid to fail you will try harder projects. Your skills will improve and you will be amazed at what you can do. I like to say: “It is amazing what you can do if you don't know you can't do it!”

Think of your failures as experiments. Learn what you can and then try it again. If you get stumped ask your fellow blacksmiths for ideas. Then ask some non-blacksmiths for their thoughts. A fresh set of eyes can open a whole new world of ideas. All of us tend to get stuck in ruts – our comfort zones. It is when we are out of our comfort zone that real learning and progress takes place. By embracing failure you will lose the fear of being out of your comfort zone and your skills will improve dramatically.

Don't get me wrong. I'm not saying that you should tackle a 1000 feet of forged railing on your second day at the anvil. That's not embracing failure – that's committing suicide! You need to take your failure in bite sized chunks. Evaluate a potential project. If there is a little doubt that you can do it then go for it. If you succeed on the first attempt you need to adjust your doubt-o-meter and pick a harder project.

So there you are. Push your limits! Part of becoming a better blacksmith is taking perfectly good steel and creating a nice piece of scrap!

See ya at the anvil.

Turn your Iron Into Copper

from Gordon Williams demo

Get a bottle of Root Kill. I got some in the plumbing department at Home Depot for \$13. The ingredients list says 99.5% copper sulfate. Put about 6 oz. copper sulfate per 1 gal distilled water and shake or stir until dissolved. Apply (brush, spray or wipe on), wash with clear water, dry; then buff with dry cloth and clear coat (rattle can clear or some other sealer). Like any patina, the process works better when the metal is clean. Gordon used Scotch Brite to shine up high spots on bark texture. The shiny spots turned bright copper instantly. I found that the copper begins to age rapidly and in a short time will look like an old penny if the clear in not applied right away.

Ed.

This page was reprinted from The Anvil's Horn, November 2011.

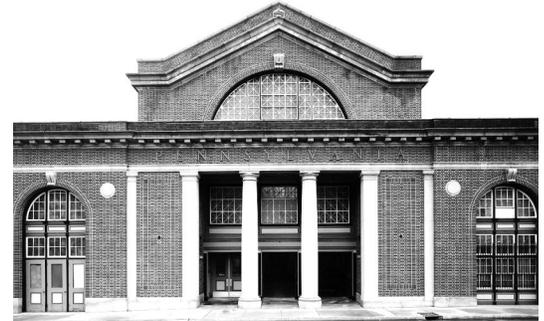


Artist-Blacksmith Association of North America

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.

The Arizona Artist Blacksmith Association is an affiliate of ABANA.

ABANA has moved its headquarters from Jonesborough, Tennessee, to Johnstown, Pennsylvania. Blacksmithing and the steel industry have played an important part in the history of Johnstown since the mid-19th Century. That makes it a fitting place for ABANA to call home. ABANA's new home is in the historic Pennsylvania RR depot where it will have offices, a gallery, a retail shop and a library. The Center for Metal Art is located in other historically significant facilities in Johnstown.



ABANA'S Education Committee announces the National Curriculum

A model curriculum that provides a structured program of study to learn blacksmithing.

"We have some exciting news from the Education Committee; ABANA has fully adopted the National Curriculum (NC), based on the curriculum of the CBA (California Blacksmith Association). As our core mission is to perpetuate the noble art of blacksmithing, we recognize it's incumbent as a national blacksmithing organization, to share a successful and practical working curriculum with members, affiliates, and the blacksmithing world at large. What is the National Curriculum? The NC is a departure point for those that seek a structured program of study that can be used at schools, conferences, meetings, and individual shops through one on one, small groups and self-guided study. We present the curriculum as one way to learn blacksmithing, but certainly not the only way. From this set of goals, lessons, and benchmarks, smiths at any skill level can pick this up and continue their education. The curriculum provides the framework for the student to progress through increasingly challenging projects that focus on the skills expected of a journeyman smith, culminating with the [CBA] Level III Grille."

-- ABANA Affiliates Newsletter

Controlled Hand Forging

This was a series of lessons covering forging fundamentals that was published in the *Hammer's Blow* from Fall 2002 to Winter 2010. The series starts out with a discussion of safety consideration and very basic terminology, then moves on the basic techniques including hammering, scrolling, punching and drifting, forging tongs, and forge welding.

All 28 lessons are now available at <https://abana.org/education/controlled-hand-forging/>
(Scroll down almost to the bottom of the page.)

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

- 1 **Nazel 2b Forging hammer** with 3-phase motor, dies, and oiler, \$13,000.
- 1 **Little Giant** 25 lb. power hammer, single-phase. \$2,500.
- 2 **5'x5' Acorn type platens**, \$2,500 each or \$4,000 for both.
- 4 **Post Vises**. Jaw widths: 4" for \$150, 4 1/2" for \$150, and two 6" for \$350 each..
Note: these are rusty and will need to be cleaned and lubed.
- 1 **Miller Gold Star** 330 amp A/C, D/C stick and TIG welding machine, single-phase, w/ foot pedal, air-cooled torch, stick and ground leads, on a roll-around card w/ bottle rack (no bottle). \$600.
- 1 **P&H** 300 amp Stick/TIG welding machine, single-phase w/ foot pedal, no leads, torch, flow meter, or bottle. \$300.
- 1 **Cincinnati/Greeves** Vertical/Horizontal milling machine, w/ 10"x54" power feed table and tooling, 3-phase. \$1,500.
- 1 **3-ton air-powered crane hoist**. \$450

All items are located in Buckeye, Arizona. These prices include loading onto your trailer/truck. I can offer curbside delivery for an additional fee.

Contact: jaegermax@msn.com
Please put "AABA Equipment" in the subject line so I don't delete it as junk.

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
52196 W. Quail Run Rd.
Maricopa, AZ 85139
602-672-7085
www.arrowzonastoneworks.com



FORGE-APRONS

Blacksmith aprons that fit you and your needs

Seven styles you can custom-size, personalize & customize



Offering blacksmith related gifts and apparel too!



www.FORGE-APRONS.com

Bituminous Coal from the King Coal Mine in Colorado.

Burns great! \$30 for 50 pounds
Pick up near Tanque Verde and Houghton in Tucson.
Casey Abbs, **520-869-8778**

Gas Forge Building Workshop

Richard Rozinski is offering gas forge building workshops in his shop in Gilbert. Two person minimum. Call Rich for scheduling prices. **602-803-7255**



For Sale

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

Basic blacksmithing and metal forming workshops

Richard Rozinski is offering basic Blacksmithing and metal shaping workshops in his studio in Gilbert Arizona. Class sizes and complexity vary. Class topics range from basic blacksmithing, copper vessel raising, pewter construction and abstract sculpture fabrication.

For details text or call
602-803-7255

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
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

Old Globe Reclaimed Wood Co.
Wrought iron.
PO Box 42101, Plymouth, MN 55442
715-718-4410 or 952-463-8392 (c)
<http://www.oldglobewood.com>
Discounts for ABANA members.

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,
Camp Verde, AZ, 928-554-0700
and
28255 N Tatum Blvd. Suite 1
Cave Creek, AZ, 480-626-0924
www.piehtoolco.com

Say-Mak Power Hammers
Helmut Hillenkamp
2873A Industrial Rd.
Santa Fe, NM 87507
www.saymakhammers.com

Southern Arizona Farrier Supply
1603 S. Eastside Loop, #205
Tucson, AZ 85710
520-751-1443
www.southernarizonafarriersupply.com

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.

Superior Steel Stamp Co.
Precision engraved, industrial grade stamping and marking products for any application. Brass dies for Hot Stamping Wood or Leather. Hardened Tool Steel Stamps made for marking stainless steel, forged knives/blades much more.
3200 Lakeside Ave E,
Cleveland, OH 44114
216-431-6460
Industrial marking
www.superiorsteelstamp.com
Makers
www.stampyours.com
For either, contact
Sales@superiorsteelstamp.com

Tire Hammer Plans by Clay Spencer.
Send \$30US (PayPal) to
clay@tirehammer.com.
Or send check/money to
Clay Spencer
73 Penniston Pvt. Dr.,
Somerville, AL 35670.
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 _____ Do not publish
City _____ State _____ Zip _____
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: Terry Porter
2310 E. Melrose St.
Gilbert, AZ 85297

Make Check Payable to AABA

Arizona Artist Blacksmith Association

Attn: Bill Ganoe
P.O. Box 40233
Tucson, AZ 85717
Address Service Requested

NONPROFIT ORGANIZATION
U.S. POSTAGE PAID
TUCSON, AZ
PERMIT NO. 271

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