

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 197 March 2019



*Kinetic Sculpture by
Patrick Quinn at Winterfest II
January 25, 2019
(Photo by Beatrice Perret)*

President's Message

What up blacksmiths! I really hope you didn't miss another great Winterfest! Steve, Richard and company really did a fantastic job on the second annual event. We had great group of demonstrators and some great attendance. Hopefully you plan to join us at the March demo too at Grizzly Iron in Phoenix. Grizz has a great demo planned that you won't want to miss!

Spring is just about here and with spring comes change. Change can be a daunting thing if you let it. We get comfortable in our regular routines and our habits. Many of us hope for something better than we have now or to become a better person than we are now, but if we don't change, how can we expect anything different. Just like metal needs to be heated before we can forge it, we need to push ourselves out of our comfort zone if we want different results.

So get that metal hot and forge on!

Jason LaBrash

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Little Giant Rebuild Seminar March 15-16, 2019

I'm out of space for the full Little Giant Seminar announcement, but if you're interested email Sid at www.sidsshop@windstream.net or check out <http://littlegianthammer.com/>

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Demonstration: Saturday, March 16, 2019 Grizzly Iron

1329 W. Lincoln St.
Phoenix, AZ

Demonstrator: Rodger "Grizz" LaBrash

Grizz will demonstrate the making of a pattern-welded knife - from creating the Damascus billet to finishing the handle.

In the morning Grizz will make a canned Damascus billet using 1095 powder and an A-36 bar in the middle. He will then draw the billet out and forge a dagger, then grind, heat treat and temper.

In the afternoon he will finish grinding, fit up a guard and handle. He will then do a final sanding, etch, and sharpen the dagger by the end of the day. Shawn Chakravarty will narrate the process while Grizz does the work. It should be a fun, fast paced demo, based on Grizz' experience on Forged in Fire!



- 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 eating spots in the neighborhood.
- Tailgating is encouraged. Tailgaters, please consider donating to Iron in the Hat.
- 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.

**As always, safety glasses
are required in the
demonstration area.**

Hearing protection, closed-toe shoes, and
long clothes of natural fibers are
recommended.

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.)

Our March Demonstrator: Rodger "Grizz" LaBrash

Grizzly Iron was started as a dream shared by Grizz and his wife, Jami, as they sat on a couch in a trailer 32 years ago. They started making fences, gates and weightlifting equipment. The business grew mostly by word of mouth. Grizz started blacksmithing because a friend had an idea for a gate he wanted with forged elements. He did that first forging with a torch and an I-beam for the anvil. Now Grizzly Iron has about a dozen employees and does a wide range of work, from design to installation, from towel bars to copper range hoods to spiral staircase including the wood treads if needed. Grizz' son Jason now handles the operations, and Grizz does mostly prototyping and running classes. He is also expanding into the world of Damascus and knife making.



Demonstration Opportunities

AABA has been demonstrating regularly at the Thieves Market in Tempe on the first Saturday of cooler months. We will be setting up again at the Thieves Market on March 2. If you are interested in helping to set up, demonstrate, and, maybe, sell some of your stuff, contact Roger "Grizz" LaBrash at grizz@grizzlyiron.com or 602-717-1458 or Shawn Chakravarty at kelblak@hotmail.com or 480-332-9113.



Winterfest II Report

Bill Ganoe

(Photos by Bill Ganoe unless otherwise noted.)

Winterfest II, held January 24 - 26, 2019, at the Pima County fairgrounds near Tucson was an event to remember. Things got started Thursday evening with a show featuring slides presented by each artist who would be demonstrating during the next two days. These demonstrators were Peter Sevin and Moe hamburger from Arizona, Monica Coyne from California, Patrick Quinn from Pennsylvania, and Rachel David from Louisiana. Each gave an overview of their work and left us looking forward to their actual demonstrations.

Friday morning opened with Peter Sevin demonstrating silver brazing and other techniques for making gates and railings that included botanical forms like leaves and flowers. He also covered other techniques such as working with mica for lamp shades. After lunch Patrick Quinn created a kinetic sculpture. Maurice Hamburger spent much of the morning and afternoon in a separate tent demonstrating his techniques for making small but exquisite pieces such as necklace pendants, bracelets, small boxes to store jewelry and other small treasures in, a small chest of drawers, and more.

Inside the main building there was a gallery of pieces made by AABA members. There was a treasure chest contained tools and other items donated by members. Several of those items were potentially quite rare or valuable, but the treasure chest was locked, and no one could see what was

inside until the winning raffle ticket was drawn after the banquet Saturday evening. The winner got to take up an armload of treasures.

Saturday morning began with Monica Coyne showing how she forges human hands. After lunch came the usual Iron-In-The-Hat drawing with two tables overflowing with donation prizes. That drawing took so long that our afternoon demonstrator, Rachel David, struggled to complete her sculpture before dinner. Not only did she demonstrate a great sculpture, but showed how to successfully work under looming deadlines and overcome the challenges that fate often throws at people.

Saturday evening featured a banquet catered by the Golden Corral followed by a silent auction of items donated by members as well as pieces made by our demonstrators on Friday and Saturday. The auction also included a leather forging apron donated by April Witzke of Forge-Aprons.Com. After the auction we were treated to a presentation by Bill Callaway who gave a retrospective of work that he had done during his long career at his shop, Phoenix Forge, in Phoenix, Arizona. And finally, the winner of the contents of the mystery treasure chest was drawn.

A big shout out goes to Richard Rozinski, Steve Miller, Sam Rivera, and a host of others who worked to make this Winterfest II a success.

See you next year at Winterfest.



The blacksmith shop at the Pima County fairgrounds near Tucson, Arizona



The audience paid close attention to the demonstrations.

Winterfest II Report (cont.)

Bill Ganoe

(Photos by Bill Ganoe unless otherwise noted.)



Patrick Quinn with Dan Neville assisting.



Kinetic sculpture by Patrick Quinn



Maurice Hamburger



*Rachel David
(That's the microphone in her face.)*



Sculpture by Rachel David



*Cabinet by Maurice Hamburger
(It is about 6" high.)*



*Monica Coyne
(Photo by Beatrice Perret.)*



*Hands by Monica Coyne
Partially completed hand on top.
Finished hand on the bottom.*



*Lamp, including the mica shade,
by Peter Sevin*

Winterfest II Report (cont.)

The Lost Dutchman Treasure Chest

(Photos by Bill Ganoe unless otherwise noted.)

What's in the Box?

Jim Schremp

During this last Winterfest we were introduced to a new tradition of raffling items in a mysterious treasure chest. Thoughts of a mystery box fill our heads. Greek mythology conjures up an image of Pandora's box, a chest holding terrible sicknesses and plagues that would curse mankind if the chest were ever opened. Or it could be a priceless treasure from a lost civilization. We are told to consider all possibilities and to think outside of the box.

The mystery was revealed at the end of Winterfest II when Richard Rozinski opened the box and took the contents out one by one. The contents had been donated by various members of AABA. As Richard took each piece from the box, he announced who had donated it and who had made it. Most of the items were tools such as tongs, hammers, compass, measuring wheel, knife, a book on blacksmithing and even a forged spoon. The spoon was a mystery because the person who made and or donated it was unknown. I really like the fact that one item is from an unknown origin and hope that becomes part of the tradition.

Each item was a work of art sporting great craftsmanship and useful for a blacksmith. When thinking of why those items were chosen the reasons could be that a seasoned blacksmith might be decluttering his shop or that an older smith might want to bless a beginning smith with a useful tool. One thing we can't escape is that our tools of the trade will outlive us. Most would rather have them go to a fellow smith instead of going to people who don't know what the tool is or, worse yet, to the scrap pile or the landfill.

There were also non-physical things in the mystery chest. There were knowledge and wisdom from advanced blacksmiths and beginning smith's eagerness to learn. There was a magical passing down of our craft embodied in well crafted tools. So at next year's Winterfest, when someone asks what you think is in the "Mystery Box", you tell them it's our Blacksmith heritage.



The Lost Dutchman treasure chest



The tools found in the treasure chest

I'd like to take this opportunity to thank all of you who helped make Winterfest 2019 a success. In particular I'd like to thank all of those who participated in the Lost Dutchman Treasure Chest Raffle for buying tickets and especially those who were so kind as to donate tools to go into the chest. It was fun putting it together and making the raffle a part of Winterfest. It helped to raise funds for AABA. Along with that I'd like to congratulate Ira Wiesenfeld who won the contents of the treasure chest. I just wish there could have been more winners.

- Richard Rozinski,
Co-chair of Winterfest II.

AABA Annual Auction and Banquet 2018

Some Photos That Didn't Get in the January Anvil's Horn

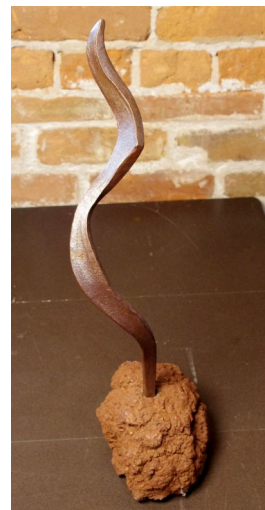
Photos by Wally Warnke



*Roses by
Rodger "Grizz" LaBrash*



*Hammer by
Brent Bailey*



*Brain Wave by
Steve Miller*



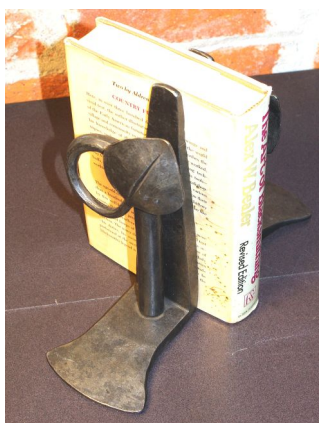
*Bell by
Len Ledet*



*Repoussé Leaves by
Wendel Broussard*



*Tiny Tongs Necklace by
Bill Ganoe*



*Bookends by
Peter Sevin*



*Ceramic Top Table by
Wally Warnke*



*Damascus Bowie Knife by
Rodger "Grizz" LaBrash*

Classes and Events at AABA Members' Shops

Grizzly Iron

1329 W. Lincoln St., Phoenix, AZ

Organic Forging Workshop

When: March 20, 2019

Price : \$195

In this class you will learn the basics of forging organic shapes. We will work on leaves, several different flowers, and other shapes. The is an entry level class that will teach some basic blacksmithing skills but can also be helpful for smiths who have not approached blacksmithing in an organic form.

Make a Hunter Style Knife

When: April 13-14, 2019

Price: \$395

In this class you will learn the basics of forging organic shapes. We will work on leaves, several different flowers, and other shapes. The is an entry level class that will teach some basic blacksmithing skills but can also be helpful for smiths who have not approached blacksmithing in an organic form.

*** Please Note: If you are an absolute beginner, we strongly suggest you attend the Open Forge Nights (see page 11.) prior to taking this course.*

Both of these workshops are full at press time, but you may be able to get on a waiting list.

For more information about these classes or to register call Roger or Jason at 602-716-9660 or email jason@grizzlyiron.com. Other classes may be listed at: <http://grizzlyiron.com/classes-and-workshops>

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. Please check the website often for updates to the grand opening schedule of events and available classes as well." - Rich Greenwood

The schedule at Desert Metal Craft features a wide range of classes and workshops including

Blacksmithing for Beginners

Art Fabrication, Bladesmithin 100

Bladesmithing 200

Heat Treating Fundamentals

Handle Workshops

Sharpening Workshop

For more details on each class or workshop check out the website: **DesertMetalCraft.org**. Check that website out every so often for changes or additions to the schedule.

Calendar 2019

Mar. 2, 2019	Open Forge	Sam Rivera's shop	Tucson
Mar. 2, 2019	Open Forge	Desert Rat Forge	Cave Creek
Mar. 16, 2019	Damascus Demonstration	Grizzly Iron	Phoenix
Apr. 6, 2019	Open Forge	Ken Webb's shop	Tucson
Apr. 6, 2019	Open Forge	Desert Rat Forge	Cave Creek

Kevlar Gloves and Other Merchandise

I'm getting ready to order Kevlar gloves, but I need a specific number before I can place the order. If you're interested in Kevlar gloves, send me an email at rozinski@cox.net. Put **GLOVES** in the subject line, and in the body of the email tell me how many pairs you want. **Also tell me if you want only left hand or right hand gloves.** As soon as I can get the total number of gloves for the order, I'll get a price to you.

Also if anybody has any special request for ordering specific garments to let me know, so that I can order them.

Richard Rozinski

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 Tuesday and Thursday evenings with instructor Dan Jennings and on Saturdays with instructor Jaime Escobedo. Blacksmithing is WLD103.

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

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

Deadline for the May 2019 issue

April 1, 2019 is the deadline submitting photos and articles for the September 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

James Calhoun	Maricopa, AZ
Henri Amini	Phoenix, AZ
Brian Freeman	Tucson, AZ
Randolph Gruss	Tucson, AZ
William Balderson	Tucson, AZ
Robert Hernandez	Tucson, AZ
Austin Shepard	Canon City, CO

Classes at Pieh Tool Beginning/Intermediate Blacksmithing

- Beginning/Intermediate blacksmithing classes with Dylan Cook
January 18-20, 2019
February 15-17, 2019
March 29-31
Registration is \$550.
Students will make several simple projects to take home.

- Knifemaking class with Master Bladesmith, Ray Rybar
February 1-3, 2019
Registration is \$550.00.
Students will make one knife.

- Damascus class with Master Bladesmith, Ray Rybar
This is a basic damascus class. It is not a knifemaking course.
March 1-3, 2019

(Most of these classes are full at press time. Check with Pieh Tool about getting on a waiting list.)

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

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

Sam Rivera will host an Open Forge in Tucson from 9 to noon on Saturday, March. 2, 2019, at his shop.

Sam's 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 Sam at 520-591-4700 if you have trouble finding the shop.

Open Forge: Grizzly Iron

Don't have a power hammer? Use one at Grizzly Iron, 1329 W. Lincoln St., Phoenix, 4:30 PM to 8:30 PM, more or less, every other Wednesday (e.g. March 13, April 3, and April 17, 2019). \$20 each night. Contact Rodger "Grizz" LaBrash at 602-716-9660 or grizz@grizzlyiron.com if you have any questions. You can check the calendar at: <http://grizzlyiron.com/classes-and-workshops>

Open Forge: Desert Rat Forge (Phoenix area)

Paul Diefenderfer will host an open forge on Saturday, March 2, 2019, and Saturday April 6, 2019, from 9 am 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: 40218 N. 78th St. 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!

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

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 _____ ☐ Do not publish
Phone (home) _____ (mobile) _____ ☐ Do not publish
Email _____
Professional blacksmith _____ Hobbyist _____ Farrier _____ Blade smith _____
Your main blacksmithing interest _____
Occupation or skill _____
Please check one:
Regular membership (\$35) _____
Family membership (\$40) _____

Mail to: Wally Warnke
7070 E. Dogwood Trail.
Cornville, AZ 86325-5154

Make Check Payable to AABA

Other Meetings and Events

BLACKSMITHS NEEDED TO TEACH WORKSHOP IN MAY

SEEDs for Autism is a nonprofit organization in Phoenix that teaches youth and adults on the autism spectrum a variety of vocational skills. One of those skills happens to be blacksmithing and welding. Every May we host an Open House and invite the public to come and shop the products made in the SEEDs program. We also provide a project that the community can try learning to make and take home.

This year our Open House will be on Saturday, May 4, from 9:30 – 3:00.

We need 4 Blacksmiths to come and help out and work with the community during our Open House. There will be a meeting prior to this event to go over the details of what we will be making.

Call Mary Ann at 602-253-4471

<https://www.seedsforautism.org/>

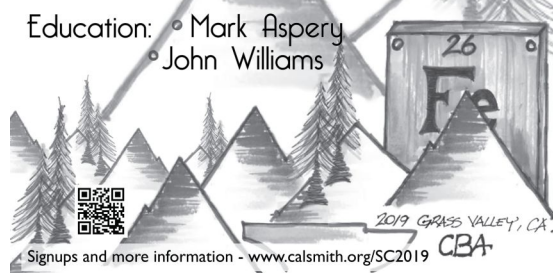
CALIFORNIA BLACKSMITH ASSOCIATION APRIL 25-27 NEVADA COUNTY FAIRGROUNDS

Demonstrators:

- Stenico Brothers
- Maria Cristalli
- Maegan Crowley
- Andrew Meers
- Andrew Kyte
- Elijah Burnett
- Heather McLarty
- Jack Da Silva
- Pat Downing

Education:

- Mark Aspery
- John Williams



Buenos Aires, Argentina - 2020

Jerry Coe is organizing another trip to Buenos Aires, Argentina, February 23 - March 4, 2020. This trip will be similar to the trips he organized in 2016 and 2018. The group will again teach classes in downtown Buenos Aires to a hungry audience who want to re-awaken the long sleeping trade skills in Argentina. The group of 36 people will fly to Argentina and share all land costs which is expected to be about \$1000/each. This covers airport transfers, 9 nights and all breakfasts in the hotel, walking tours of the city, two group dinners, and a tourist day in the countryside with gauchos and BBQ. During our visit we will teach blacksmithing for 4 days in downtown Buenos Aires. Each person in the group will cover their own air fare which is expected run around \$1500 depending on city of origin and airline selected. \$500 deposit to register

For more details, or to register for the trip, email Jerry Coe at jerryalancoe@gmail.com or call him at 510-525-4972 (cell).

Blacksmith Association of Missouri

2019 BAM Ozark Conference

May 2 - 5, 2019

Missouri State Fairgrounds, Sedalia, Missouri

Demonstrators: Jymm Hoffman and Raymond Rybar.

Details and registration information is at <http://bamsite.org/>

Members' Gallery



Brian Hughes
New Fireplace fixture, 28 1/2" x 50" forged steel and copper

Seeds of Creativity

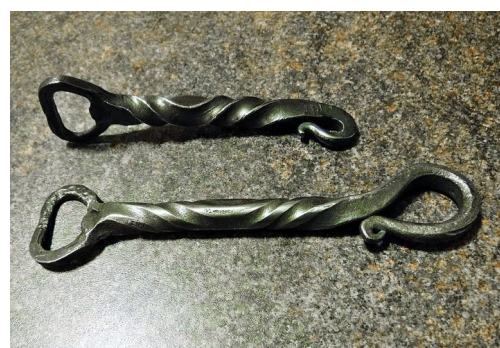
You say you've gotten bored just making knives and you would like to branch out into other forging projects, but you don't have a big fancy shop with a power hammer and a big forge? Why not let your creativity loose on bottle openers? They are small and don't need a power hammer and a fancy forge to complete. They can be very simple or very complex or anything in between, but they can be a good way to express your creativity. Here are some examples of what other creative blacksmiths have done with the simple bottle opener. Recently, a Facebook group was created by a blacksmith in Argentina to show how artistic the simple bottle opener can be. The group is **Destapala Con Arte (Open it with art)**, and it includes posts from blacksmiths around the world.



Steve Fisher
Tucson, Arizona



Rafael Gribaudo
Oliva, Cordoba, Argentina



David Pink
Basingstoke, UK

The Jordan Project

Jim Schremp

Marhaba, which means hello in Arabic. I wrote two articles for the Anvil's Horn (September 2016 and July 2017) on helping Syrian Refugees living in Jordan, and I was asked to write a follow up article on what is currently happening.

In October 2017 I went back to Jordan not only to teach a blacksmithing class in MaFraq, Jordan but to also give a class at the University of Jordan in Amman, Jordan's Capital and largest city. How the University class came about is that there was a woman blacksmith in Yuma, Arizona who knew a Jordanian woman who recently became an Art Professor at the University.

But like many things that are carefully planned out, things started to fall apart as I boarded the airplane for Jordan. The University first said, "Yes.", but then changed their mind about the blacksmithing class, so my itinerary was switched around, and a meeting was arranged with the Chairman of the Art Department. The "Chair", as he was called, was an abrasive man who would hurl insults at a whim. The art professor's jaw literally hit the floor as two Americans and one Canadian showed only our poker faces. Towards the end of the meeting the "Chair" warmed up and agreed to have the blacksmithing class and insisted on taking a group photo.

During the week I taught at the blacksmithing shop in MaFraq, and on the weekends I went to Amman to teach at the University. The students in

MaFraq were four nineteen-year-old men who had been living in Jordan for five years since the start of the Syrian Civil War. These men were in a refugee status which meant that they could not work or go to school, so their lives are stuck in limbo. Once we were taking a water and bathroom break at the school nearby when the kids were not there. The guys were looking at a world map on the wall and asked where they were currently and where Syria was. When the translator showed them, they seemed disappointed because they thought that they had traveled farther. Then they asked where the translator and I came from, and they were puzzled as they looked at the continent on the far left of the map.

On the weekend classes in Amman, the college students were in a sculpture class. That worked well because I compared the hot metal to moving clay. These students flew through the projects, some students making multiple items. So even with the rough start everything worked out in the end.

I realized that if I wanted to truly help people in this country, I would have to change my game plan. The biggest obstacle is that students in MaFraq would miss a lot of classes. They faced several problem in their lives but a big one was transportation. One student had to borrow a bicycle to make it to class. A possible solution would be to have taxi cabs, which are inexpensive, pick them up and even pair up students who live near each other as a buddy system. I also saw the need for a handicapped class where they can make small items. Currently I am working this out in our blacksmithing class in Yuma.



The class at the MaFraq refugee camp



Making a cowboy hat



The class at the University of Jordan

Kinyon Simple Post Vise

Answering a plea for a simple post vise, Ron Kinyon came up with an alternative to trying to find and buy a 100 year old vise or spend big on a new Pakistani made vise. We think this vise actually performs better than the alternatives.

- The jaws are removable which allows them to be virtually any size and shape.
- The jaws have a bit of clearance to the posts, which allows some conformity to tapered work.
- The bottom pivot is adjustable to accommodate widths up to 4" while maintaining parallel jaws.
- The vise can be built any height.
- Build cost is around \$150. (depends on choice of base and number and style of jaws).

The posts are 2 x 2 x 1/2 wall box tube. The jaws are built on receiver tube cut 3" long (2 1/2 x 1/4 wall box). 1 x 1 1/2 cold rolled steel make the jaws. 3/8" x 3" strap makes the top jaw gusset and the lower pivot brackets. 3/8 x 1 1/2 strap is used for the clamp. Grade 8 bolts make the pivots and the clamp stop.

The screw is 1 1/4" Acme because the nut is 2" across the hex. The Acme threaded rod can be purchased from Enco in 3' or 6' lengths. However, each vise only requires 4 1/2". A little lathe work is required.

Options for the base include 3 legs, a base big enough to stand on, and a receiver tube concreted underground (making the vise solid with the earth, but removable for storage).



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

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

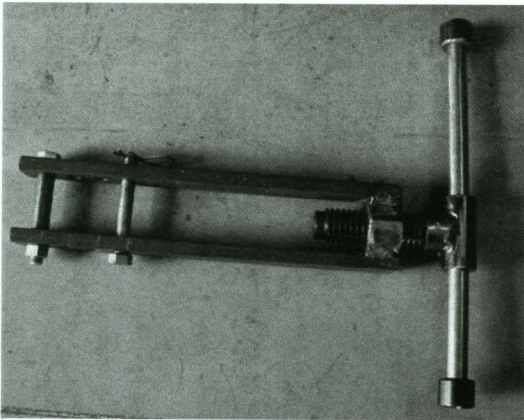
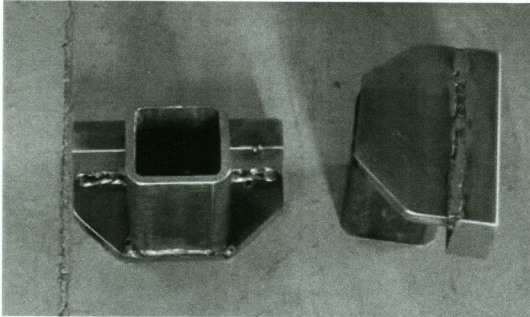
Ron is planning to host a few vise building workshops sometime in the future. If you are interested in attending one email Ron at ronkinyon@aol.com

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



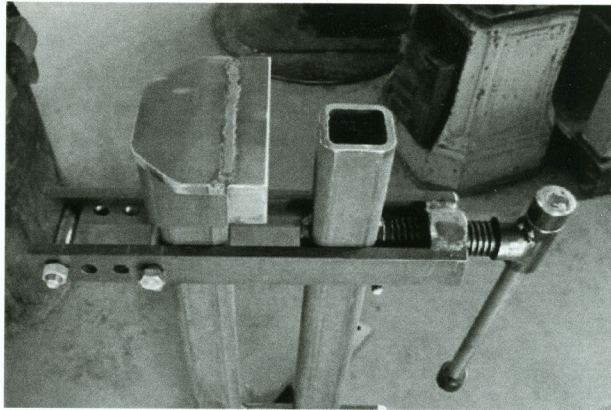
Continued on page 16.

Jaws: the $\frac{3}{8}$ " gusset is flush with the top of the $1 \times 1\frac{1}{2}$ and tops the $2\frac{21}{2}$ square tube. Clamping and carefully tacking the pieces before welding will keep everything square. These jaws are 5" long, but they could be any length. All material is mild steel, so far. We don't know if another material would be advantageous.



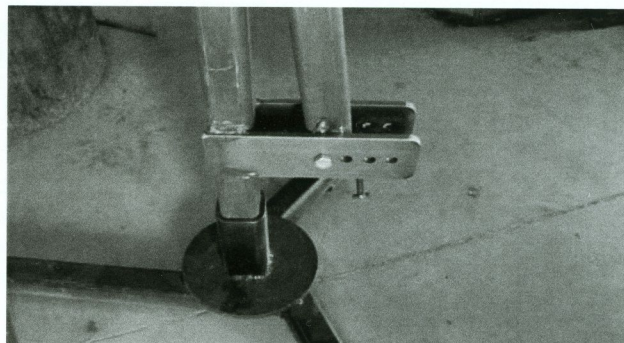
The bolt at the left has a piece of tube 2" long to keep the clamp spaced properly.

The $4\frac{1}{2}$ " long acme screw is turned to 1" diameter on the clamping end which will allow the screw to be removed if it mushrooms during use. The other end is turned to fit the ID of the $1" \times .125$ DOM ($\frac{3}{4}$ "). The handle is $\frac{3}{4}$ " with the DOM forming the end stops.



The ends of the posts are left open. The $\frac{1}{2}$ " diameter pivot holes and the clamp holes are 1" apart. The hole in the moveable post is drilled $\frac{1}{4}$ " off center which allows the post to be turned 180 degrees for a $1\frac{1}{2}$ " adjustment. The $1\frac{1}{2}$ " adjustment may not be required, as the jaws hold tightly throughout 1 inch of adjustment..

The pivot tube fits tightly in the $\frac{3}{8} \times 3$ " plates to keep it from moving left and right. The bolt protruding downward from the outside of the pivot tube retains an extension spring. The other end of the spring is connected to a hook on the fixed post with a 4" length of chain. When the pivot point is moved to another hole, the chain can be lengthened.



Ron made one jaw with a 1" square hole to fit his hardies.

Reprinted from the Anvil's Horn, March 2012..



Artist-Blacksmith Association of North America

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

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

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

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

The ABANA 2020 Conference will be held at the Washington County Fair Grounds 392 Old Schuylerville Road, Greenwich NY 12834 Wednesday, June 3 – Saturday, June 6, 2020 **Save the Dates**

The 2020 ABANA Conference will be done a little different, everything will be done through the 2020 Conference Committee on a separate site by EventSquid, which is a fully interactive. The site is still under construction. Once the Conference Committee finishes the site, we will have it listed here.

Keep up with current current developments through the **ABANA 2020 Conference** group on Facebook.

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.

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Blacksmith's Wife Marketing
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the metal working community. Also
providing website design and
consulting services. Contact April
Witzke at (575) 313-4650.

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.

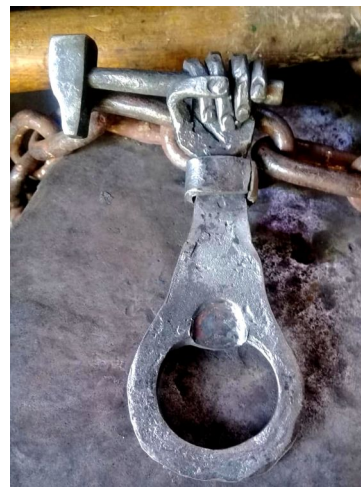
1) IMS has space for member metal work to be put on display in a glass case and on top of the cut metal rack inside the store. Contact Steve Miller, stevemiller.az@cox.net, to get your items on display. These items may be for show only or they may be offered for sale. Artists are responsible for any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



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For membership information or address change, contact: Terry Porter, 2310 E. Melrose St., Gilbert, AZ 85297, 480-988-2070, trp555@prodigy.net