

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 203 March 2020



Ellen Durkan showing the wearable sculpture she just finished in her demonstration at Winterfest III.

(Photo by Warren Weiner)

President's Message

What's up, blacksmiths! I really hope you didn't miss another great Winterfest! Steve, Richard, and company really did a fantastic job on the 3rd annual Winterfest. We had a great group of demonstrators and some great attendance. Hopefully, you plan to join us at the March demo too at Grizzly Iron in Phoenix. Our demonstrator, Pete Braspenninx, does some mind-boggling traditional joinery.

As many of you know we have been bringing in these great demonstrators to encourage more attendance at our meetings, and it seems that sometimes it's not enough. We're not alone in this struggle, I've noticed other associations struggling with attendance numbers. There seems to be a lot of agreement that many people, especially the younger generations, don't see as much benefit in taking the time to come to meetings like ours. They feel they get just as much information, if not more from the Internet and watching the same demonstration online.....And maybe they're right in a way. There's unlimited information at our fingertips now. I know from my experience that it's not the same though. It will never compare to the personal interactions that we experience at our events. I have my own reasons for attending the demonstrations, but I want to know what your reasons are. Please let me know. Stop me at the next demo or send me an email. Let me know what your favorite thing is about attending an AABA demo. I want to hear from you.

Until then, keep on forging!

Jason LaBrash

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Demonstration: Saturday, March 21, 2020 Grizzly Iron

1329 W. Lincon St.
Phoenix, AZ

Demonstrator: Peter Braspenninx

My demo will focus on the measuring and fore thought of a project, how to accurately determine stock needs and how to forge to dimension. I will be making a sculptural form covering different forging operations and doing so in an intentional manner.

- Peter Braspenninx



- 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.

Workshop with Peter Braspenninx

Sunday, March 22, 2020, 9 am - 4 pm
Grizzly Iron, 1329 W. Lincoln St., Phoenix, AZ
Details on page 4.

**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 Peter Braspenninx



Pete Braspenninx, owner of Phyre Forge, is a graduate of the University of Michigan school of art and design (2004). He is an artist, blacksmith, and educator. His work has been shown, collected, and published nationally and internationally. His work focuses primarily on building shape and line through visual connections and joinery using traditional skills to make modern forms.

Workshop with Peter Braspenninx

Sunday, March 22, 2020, 9 am - 4 pm

Grizzly Iron, 1329 W. Lincoln St., Phoenix, AZ

Learn how to measure from drawings to accurately forge a project. We will cover material estimation, slit and drift tooling, upset square corners, and wedge joinery. The workshop project will be similar to this picture.

\$95 / student, 8 students maximum

To register, contact Steve Miller at stevemiller.az@cox.net

Items to Bring: yourself, a post vise (if you have a portable vise), tongs for ½" square bar, bending forks,



Interesting Web Links

<https://www.youtube.com/watch?v=TI03uDqEBmI>

(Industrial!) Blacksmiths at the Caterpillar plant in East Peoria, IL in 2016.

Winterfest III Report

Bill Ganoe

(photos by Bill Ganoe unless otherwise noted)

The AABA Winterfest III got started in the evening of Thursday, January 23, 2020, with the demonstrators giving illustrated talks about their work and what they planned to cover in their demonstrations over the next two days.

Friday morning began with a demonstration by Roger "Grizz" LaBrash. He forged a San Mai billet and then forged a kitchen knife from that billet. While Grizz worked at the forge, Shawn Chakravarty narrated the action and answered questions. Along the way this tag-team kept the audience engaged by asking questions and awarding small prizes for the right or best answer.

The audience got several tips for improving their shops and procedures. Almost in passing, Shawn pointed out that Grizz was using water forging. He would wipe a thin layer of water on the face of his anvil before bringing his work piece to the anvil. The water produces a mild thermal shock in the work piece that causes more of the scale to flake off.

When Grizz appeared on Forged in Fire, the contestants were limited to only four tools at their anvils. One way Grizz dealt with that limit was to combine two tools into one. He added a magnet to his hammer to determine when his blade reached its transition temperature when he was hardening the blade. He didn't have to estimate the temperatures as the work piece changed colors.

Another tip that Grizz offered was to grind the surface of your blade with belts up to at least 220 grit before heat treating it. The point of this is that the finer the scratches on the surface are, the less surface there is for scale to form on.

Jack Brubaker was our demonstrator Friday afternoon. He spoke a lot about the design process. He noted that there are two types of customers: blacksmiths and non-blacksmiths. He advised the audience to design and make things for the second group. A good way to do that is to make several things that appeal to you, show them to your non-blacksmith friends, and note their reactions.

When designing a piece, Jack said to look at nature: Don't reproduce nature. Try to reproduce the energy in nature.

He also pointed out that a person in the early

stages of design should avoid large, detailed drawings. If you don't, you will wind up with so much time and energy invested in a detailed drawing that you will be reluctant to throw it out or make major changes.

Jack suggested that a smith should make several tiny drawings like what an observer could see from 100 feet away. Put them aside for a few days, maybe several days, then come back and look at the tiny drawings again. It will be a lot easier to make changes or just throw the drawing out at this stage..

Friday evening ended with a forging contest. Contestants were given blank pieces of steel and told to create a snowflake like the ones that appeared in the graphic for Winterfest III. While there was some forging involved, there was a lot of (cold?) chiseling involved.

Douglas Pryor did his demonstration on Saturday morning. I didn't get a lot of time in his repoussé demo, so I can't do a good summary of his demo. However, the bee that he created was awesome.

What would a blacksmith event be without an Iron-in-the-Hat drawing? Iron-in-the-Hat at Winterfest III was at noon on Saturday. It featured a vast array of prizes from small pieces of hand-forged jewelry to books, tools, pieces of steel, and even a small MIG welder.

Ellen Durkan was our demonstrator for Saturday afternoon. She made a fairly simple sculpture that could be worn around a person's neck. She went through several steps of texturing and riveting, and she spent a good portion of her time forging a calla lily. Flowers like that are covered in one of Mark Aspery's books, but it was instructive to watch Ellen go through the process. She is a great teacher.

A new feature this year was a video set up with two cameras in the demonstration area that fed a large monitor in the meeting room. This worked out very well, and the people in the meeting room got a better view of some of the demonstrators' work than those out in the demonstration area. This was particularly true for Doug Pryor's repoussé demonstration. Sam Rivera spearheaded this video project. Thank you, Sam.

In addition to Doug Pryor's repoussé

Continued on page 6

Winterfest III Report (cont.)

Bill Ganoe

(photos by Bill Ganoe unless otherwise noted)

demonstration, Fred Zweig did an almost continuous demonstration of repoussé and chasing in one of the Small Tent Events. Fred was doing some of his own repoussé, and was available to guide others who wanted to try repoussé.

Jaime Escobedo managed the other Small Tent Event. He was helping attendees with fairly simple projects like bottle openers, sheet metal roses, butterflies, and key chains. This attracted a lot of beginners as well as other, more experienced people who wanted to gain additional blacksmithing skills.

Saturday evening featured a banquet with catered food, a silent auction of pieces that members and demonstrators had donated, and the awarding of the contents of the Lost Dutchman's Treasure Chest. The Treasure Chest held several tools that had been made and donated by AABA members. It was won by Joe Madrid. Congratulations, Joe!

It's safe to say that almost everyone who came to Winterfest III is looking forward to Winterfest IV next year.

Below is just a small sample of the people at Winterfest III and the beautiful work pieces that were on display.



Shawn Chakravarty (l.) narrated Roger "Grizz" LaBrash's demonstration.



Fred Zweig demonstrated his chasing and repoussé skills



(l to r) Jack Brubaker, Steve Miller, Doug Pryor, Ellan Durkan, Richard Rozinski, Fred Zweig, and Jaime Escobedo.



Jack Brubaker



The area for the Small Tent Events plus tailgating and vendors



Douglas Pryor

Winterfest III Report (cont.)

Bill Ganoe

(photos by Bill Ganoe unless otherwise noted)



Watching Doug Pryor's demonstration on the monitor in the warm meeting room.



Fred Borchardt and Steve Miller.



Gallery pieces by Ken and Deb Hickins



Copper Roses by Steve Miller



Bee by Douglas Pryor



Belt Buckles by Peter Sevin



Teapot by Maurice Hamburger



Joe Madrid won the contents of the Lost Dutchman's Treasure Chest.



Cross by Jaime Escobedo

Classes and Events at AABA Members' Shops

Grizzly Iron

1329 W. Lincoln St., Phoenix, AZ

The schedule at Grizzly Iron features a wide range of classes and workshops including:

- Exploring Blacksmithing, various topics: Thursday evenings.
- Youth (11-17) Blacksmith Workshop: March 2, 9, and 16, 2020
- Blacksmith Knife Workshop: April 25, 2020
- Cannister Damascus Workshop: April 4, 2020

Grizzly Iron offers many other classes and workshops, too numerous to list individually here, including:

- Damascus Knives
- Camp Knives
- Making Tongs
- Knife Grinding

For more details or to register for these classes or workshops go to:

<http://grizzlyiron.com/classes-and-workshops>.

Events are added regularly, so check the website often.

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 including:

- Workshop Wednesdays, drop in anytime between 10 am and 5 pm any Wednesday, pay by the hour.
- Blacksmithing for Beginners: March 6 and March 28, 2020
- Introductory Welding: March 27, 2020

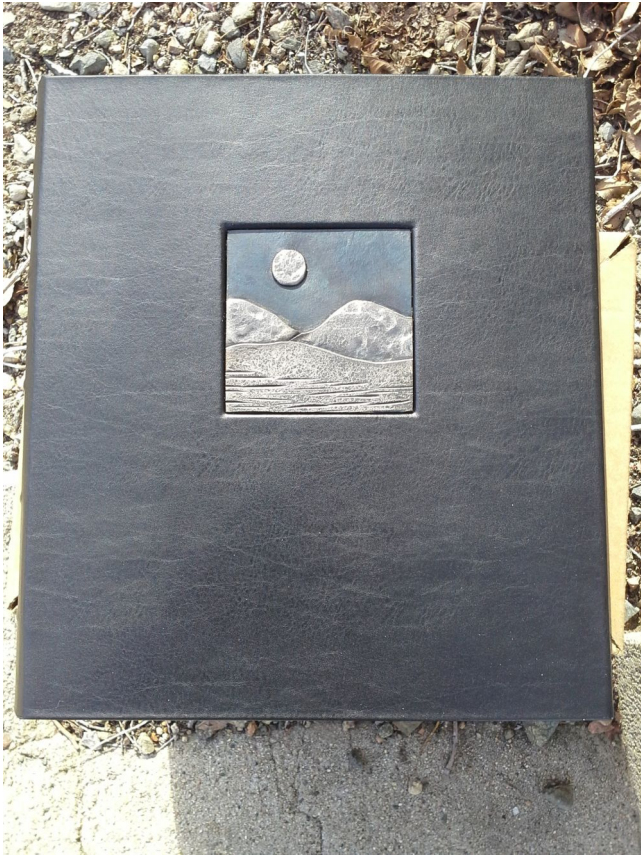
DMC also offers many other classes and workshops, too numerous to list individually here, including:

- Art Fabrication
- Bladesmithing 100
- Bladesmithing 200
- Heat Treating Fundamentals
- Handle Workshops
- Sharpening Workshop

For more details or to register for each class or workshop go to: **<http://www.DesertMetalCraft.org>.**

Check that website frequently for changes or additions to the schedule.

Members Gallery



Brian Hughes

Small landscape in steel. 3 1/2" x 3 1/2"

David Bridenbaugh



Calendar 2019-2020

Mar. 14, 2020
May 16, 2020

Peter Braspeninx
Gerald Boggs

Grizzly Iron
TBA

Phoenix
Tucson

Your dues for 2020 are due now!

MCC Blacksmithing & Welding

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

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

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

Sahuaro Ranch News

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

Welcome New Members

| | |
|-------------------|------------|
| Glenn Jessen | Ft. Mohave |
| Sean McCullough | Gilbert |
| Steve Crider | Mesa |
| Al Lessing | Mesa |
| Matthew Hilzinger | Sedona |
| Norman Bunch | Tucson |
| William Ott | Tucson |
| Fred Petersen | Tucson |

Classes at Pieh Tool Beginning/Intermediate Blacksmithing

- Beginning/Intermediate blacksmithing classes with Dylan Cook

March 13-15, 2020
April 17-19, 2020
May 1-3, 2020
Registration is \$550.
Students will make several simple projects to take home.

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

Deadline for the May 2020 issue

April 1, 2020 is the deadline submitting photos and articles for the May 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

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

Sam Rivera will host an Open Forge at his shop in Tucson from 9 to noon on Saturday, March 7, 2020. Sam's shop is at 675 W. Helen St., Suite 1C, Tucson.

Ken Webb will host the AABA Open Forge at his shop in Tucson from 9 to noon on Saturday, April 4, 2020. Ken's shop is at 425 E. Navajo Rd, Tucson..

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, . Check the calendar at: <http://grizzlyiron.com/classes-and-workshops> for specific dates and fees

Open Forge: Desert Rat Forge (Phoenix area)

Open Forges at Desert Rat Forge have been temporarily suspended until some time 2020. Watch for details in the next issue of The Anvil's Horn.

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.

Other Meetings and Events

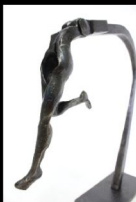
CALIFORNIA BLACKSMITH ASSOCIATION *presents*

BEGINNER TO ARTIST

JOE KOCHES MEMORIAL CONFERENCE • FERNDALE, CA • APRIL 30TH—MAY 2ND 2020

Before Joe passed in September 2019, he brought together a group of world-class artists of the forge to show the scope of contemporary blacksmithing. His show will go on! We will have demonstrations, portfolio presentations, and two galleries,

including Joe's gallery containing one of the finest collections of contemporary ironwork. The CBA instructor team led by Mark Aspery welcomes everyone interested in developing their skills at the forge. Join us in Ferndale for Joe's dream conference.



Monica Coyne



Christoph Friedrich



Claudio Bottero



Pete Braspenninx



Kovarna (Pavel)
Tasovsky

MORE INFORMATION AT WWW.CALSMITH.ORG/CBA-EVENTS

Call to Artists

Botanical Blacksmiths and Friends 2020: Ironwork at the Arboretum

The Arboretum at Flagstaff
May 23 – September 13, 2020

The Arboretum of Flagstaff is looking forward to hosting the 9th iteration of this outdoor ironwork exhibit in Flagstaff. As in the past, there are no restrictions on design or size, just that the work needs to be suitable for family viewing and be made for outdoor use. You can show work that has been at The Arboretum before but are encouraged to bring new pieces as people do remember! Work should not be so large that it can't be manually transported to its exhibit spot. The Artist Reception will be on June 13 and will hopefully include additional artists such as plein air painters to make it an Art in the Gardens event.. We will be doing blacksmithing demos as part of the event. You will also be able to set up a table and sell other ironwork at the event.

New this year is the conversion of the butterfly house to an exhibit area to showcase garden design with annuals and potted plants. We have been invited to exhibit some pieces in there which should make for an interesting display setting. It is somewhat more protected than being outdoors if you have something in mind that might not stand up to the full rigors of an outdoor setting.

Work may be offered for sale and the Arboretum takes a 30% commission on all sales. When a piece sells, the buyer is offered the opportunity to take it with them rather than waiting until the show closes to take possession of the piece. Most buyers choose to take the piece with them. If they do take one of your pieces, you are invited to bring in a replacement piece to keep the show looking robust. Participating artists are also invited to put work in the Arboretum Gift Shop. Smaller pieces priced at \$100 or less sell best there.

While this show is a non-juried exhibit, you are asked to send in the application and photos/details about your work to aid in planning the layout of the show (also, good photos of the work submitted are much appreciated for use in advertising of the show). Please have the paperwork to Cathi by April 26. The work can be delivered starting May 17 and needs to be in place by May 22. Please coordinate with The Arboretum staff to make sure they know you are coming up. It is best if you can plan on coming on a Tuesday or before 9:00 am to not overlap when they are open to the public.

Please send all the application information to Cathi Borthwick at flag_forge@earthlink.net. If you have questions please contact Cathi via email or at 928-890-9609. If it's easier to mail the application, please send it to Cathi at 118 Sherwood Ln. Flagstaff, AZ 86001

Calendar

April 26 - Deadline letting Cathi know you intend to participate and submit paperwork

May 17 - May 22 – Delivery of artwork

June 13 – Artist Reception

September 13 – Exhibit closes

September 14 - Oct 31 – Pick up work

Important Information

*Artist is responsible for delivery, installation, and pick up of artwork. Don't count on help from the Arboretum staff although they have been helpful in the past.

*Artwork will be displayed in an outdoor setting. It must be able to withstand exposure to the elements and to the public.

*Artwork should be suitable for family viewing.

* If you want to submit more than 4 pieces, fill out a second copy of the application form.

Application for Botanical Blacksmiths 2020

Please complete and return by April 26, 2020 to:

**Cathi Borthwick
118 Sherwood Ln
Flagstaff, AZ 86001**

or email it to:

flag_forge@earthlink.net

Artist Name _____
Address _____
City, State, Zip _____
Daytime phone _____
Evening phone _____
Email _____

Artwork Submitted (Images of work are not required but would be helpful if available)

1. Title _____
Dimensions _____
Weight _____
Description _____

Price OR Insurance value if NFS \$ _____
Will work be offered for sale? Y N _____

2. Title _____
Dimensions _____
Weight _____
Description _____

Price OR Insurance value if NFS \$ _____
Will work be offered for sale? Y N _____

3. Title _____
Dimensions _____
Weight _____
Description _____

Price OR Insurance value if NFS \$ _____
Will work be offered for sale? Y N _____

4. Title _____
Dimensions _____
Weight _____
Description _____

Price OR Insurance value if NFS \$ _____
Will work be offered for sale? Y N _____

Call to Artists

Art in the Park Series: "Exuberance: An Artistic Botanical Experience"

November 14 thru April 10, 2020-2021.

The Tubac Presidio, Tubac, AZ

Calling all creative thinkers, independent spirits and garden dreamers. The Presidio, dedicated to the conservation and preservation of history and art, is inviting you to participate in an outdoor garden art exhibit for an entire Tubac season! This will be a collection of art installations to be displayed outdoors for public viewing at our 11-acre grounds from November of 2020 until April of 2021. We welcome all artists! Exuberance: An Artistic Botanical Experience will be a collection of art installations to be displayed outdoors for public viewing at the 8-acre grounds of the Tubac Presidio. It will attract visitors who are interested in garden art created by local artists, gardeners and people like themselves. This endeavor is a celebration of individuality and collaboration, traditional and experimental, natural and artificial. We welcome any art installation that celebrates flora and fauna with emphasis on creative approaches for the garden and with an environmental focus on any of the following: sustainability, climate change, naturalism and native plants. All components of the installation should withstand all weather conditions. Participants may also create small garden vignettes that capture the essence of outdoor living. It may contain furniture, table settings, shade sails or anything that captures the story as part of a whole. We also encourage installing a stand-alone sculpture piece in any medium that can hold up to Tubac's varied temperatures and weather. A celebration is scheduled for November 14, 2020 and March 27, 2021, 9 AM -1 PM for the formal opening and closing dates of the show. Garden Crawls (tours) will be scheduled periodically throughout the season. If you have any questions, or would like to volunteer or be a sponsor, please do not hesitate to contact Myrna at Myrna@myrnayork.com or 720-220-9301. Deadline for submission is May 31, 2020.

Note: You can apply as an individual, but we are thinking about doing a joint AABA display.

If you are interested, contact Cathi Borthwick at flag_forge@earthlink.net or 928-890-9609.

Believe it or Not

Ray Rybar

Though I have never advertised, there are many in the forging community who know that I teach one on one classes in my shop. Classes range from the simplest forging to the most sophisticated mosaic Damascus.

Recently a gentleman called and stated that he wanted a two-day class on basic Damascus manufacture. That is a simple enough request, right? Not this time. He stated that it must be completely done, by hand hammer, no press, no Little Giant! I informed him that with a hand hammer his request would not be a simple proposition and his measure of success would be much diminished. That did not seem to concern him and he let me know that he would not hold it against my instruction ability if he was not successful. That sealed the deal for me. The plot then thickened. He informed me that he was eighty-one years old. Now that I was committed, I had to give this class some serious thought before it took place.

Being only ten years this man's junior, quite frankly, I was not sure I could produce a quality pattern-layered billet with only a hand hammer myself. When teaching I always verbally explain a process, then do it myself so the

student can watch how it is done. After hearing the process then seeing it done the student then begins on his or her own. It has been close to twenty years since I have hand hammered any Damascus at all so I had to be sure that I could still do it. After planning which steels and what order of procedure would be most beneficial in ease of manufacture and eye-popping result, I began on my own. Luckily, I was successful but worn out and sore at the end.

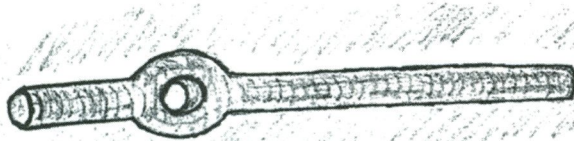
The class day came and right on time on a cold morning in came my eighty-one-year old iron smith holding his five-pound hammer. He took instruction well and his welds were sure. I sat a chair close enough to him so he could use it if he felt it necessary. He never sat. He just kept up the stretching, cutting, adding material, and rewelding repeatedly. At the end of day two he had a flawless and beautiful piece of high definition Damascus ready to blade out.

So, the moral of the story is, or morals, there are two: age is simply a matter of the mind, and the second, and most important is, even if you are young and fit, do not mess with eighty-one-year-old Ivan Hill, especially if he has a five-pound hammer in his hand!

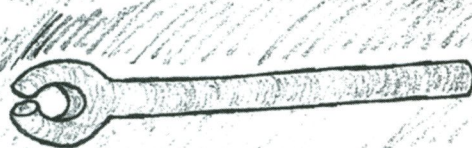
Scroll Wrench

by Jaime Escobedo

At last year's demo at Barry Denton's a generous member (Dan Crider) donated several dozen pieces of spring steel consisting of straightened car springs and an assortment of front end parts. I grabbed some of this steel and put it all to good use in the form of repousse hammers and stakes, slitting chisels, decorative punches, drifts and scroll wrenches. This article shows how I transformed a steering arm into a scroll wrench.



1. I started with a steering arm that was 1" in diameter. This piece had a factory $\frac{1}{2}$ " hole punched near one end.



2. Cut off excess material at one end just ahead of the factory punched hole, and cut through to the hole. Be sure to leave enough material on the other end to hold on to while forging.



3. Rough forge to shape. Be sure to leave enough material on the far end to turn down in a later step. Trim excess on bottom leg as needed. Keep inside corners rounded.



4. Draw out to final dimension of about $\frac{5}{8}$ " wide by $\frac{1}{2}$ " thick. Trim bottom leg to 1- $\frac{1}{4}$ " long, and the far end to about 4". Keep the handle long enough to forge without the use of tongs.



5. Determine how wide you want your spacing ($\frac{3}{4}$ " to 2" should be good). Bend this short arm of the "T" downward and forge a square corner while maintaining your spacing. Trim both legs to 1" and align.



6. Trim the handle portion to about 12" and slit through near the end. Drift the slit to a circle and slightly taper the handle towards the drifted end.

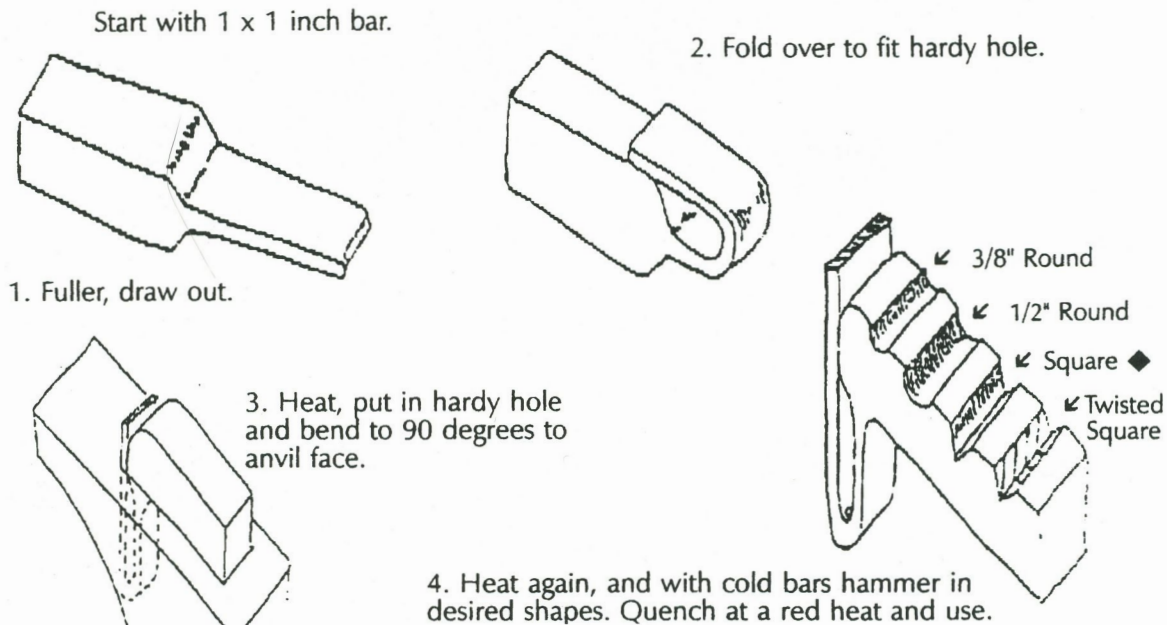


7. Bevel the corners of the handle for a nice hand forged feel. Round up the inside corners of the legs with a file so as not to mar the work. Heat and normalize and you'll have one tough scroll wrench.

Reprinted from the May 2004 issue of The Anvil's Horn

Bob Patrick's Anvil Swedge

Demo by Bob Patrick at the '89 Quad State Roundup. Drawings by Larry Coregan, Michigan Artist Blacksmith Association. Reprinted from the Four State Iron Muncher's newsletter.



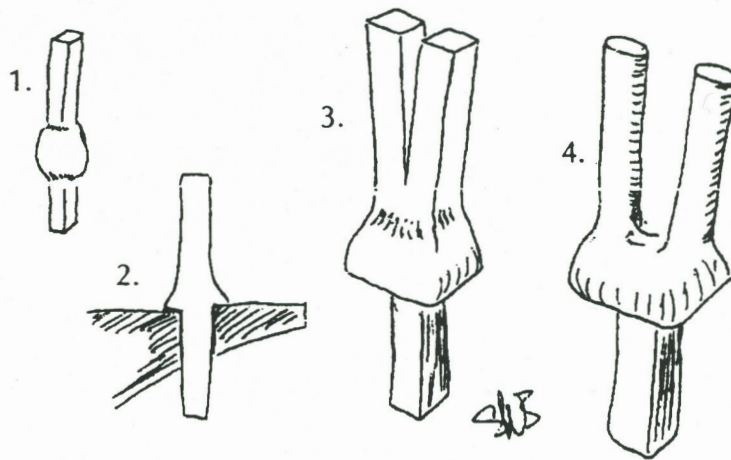
Hardy-Hole Bending Fork

Sam Shannon, Montgomery Forge
Reprinted from the Bituminous Bits
Journal of the Alabama Forge Council

This bending fork design is generally based upon an impromptu demonstration Tom Clark and Un Hofi did at the May 2001 Southeast Regional Blacksmithing Conference in Madison, Georgia. I say "generally based" on their demo, because I did not make any written notes at the time. I have sized the materials to be used to fit our local situation.

Take about 10 inches to a foot of 1-inch square mild steel. Heat and upset about 3 inches of the bar at least 3 inches from one end. Upset the heated part to form the beginnings of a lip to hold the tool in the Hardy hole. If a smaller size Hardy hole is to be fitted, fuller a shoulder on the bar and draw the steel out square to fit the hole. Heat the bar again and use a sledge to drive the bar down onto the anvil with the tang in the Hardy hole--thereby creating a more defined shoulder to secure and to fit the tool on the anvil. Mark the tool so it can be reinserted into the Hardy hole oriented the same way that the tool was made. This provides the proper fit and a tool that does not shift around in use.

Heat the upper end of the bar in the fire. Draw out the iron to a shape of about 3/4" by 1", at least 5 or 6 inches long. Reheat this end and use a hot cut to split the upper part of the tool down to about 1-1/2" above the anvil face. Reheat and use a fuller to spread the two arms slightly apart and to create a rounded shape to the bottom of the cut. Round up each arm and bend back parallel to each other. Heat and quench. Because we will be using mild steel I do not think it will need to be tempered. The sketches below indicate what we are trying to achieve.



Reprinted from the January 2003 issue of The Anvil's Horn

Artist-Blacksmith Association of North America

ABANA is widely recognized as the preeminent organization of blacksmithing in the world.

Visit us online at www.abana.org and like us on Facebook and Twitter.

Join or renew your membership at: www.abana.org/membership

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

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

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



ABANA 2020 Conference

Washington County Fairgrounds
392 Old Schuylerville Rd.
Greenwich, NY

Information Available at

www.abana2020.com
abana2020 on facebook
abana.org
ABANA Central Office
423-913-1022

We will be featuring 8 disciplines of Smithing with at least three talented Smiths in each.

ART: with Daniel Miller, Zeevick Gotleib, & Ellen Durkin

PERIOD: with Peter Ross, Dick Sargent, & Bob Valentine

TOOLS: with Patrick Quinn, Jeffery Funk, & Eric Schatzel

KNIVES: with Matt Parkinson, Lin Rhea, & Jeff Helm

POWER: with Bruce Jarrell, Steve Parker, & Randy McDaniel

FARRIERS: with Dave Farley, Roy Bloom, Tom Willoughby, & Craig Trnka

TEACHING: with Mark Aspery, Gerald Boggs, & Jennifer Petrila

FARM: with Joel Tripp, Judson Yaggy, Derick Glaser, & Lucian Avery

The Patient Order of Meticulous Metalsmiths with Tom Latane, Peter Renzetti, & other exceptional craftsmen.

The lecture series will be featuring such notables such as Albert Paley, Howard Schechter, Doug Wilson, Bill Hochella, & members of the demonstrator staff.

There will be a youth teaching venue and family programs for the non blacksmiths.

The raffle will include a BAM box donated by Pat McCarty and a Big Blue power hammer.

The Iron in the Hat is pleased to announce the return of Len Ledet with his special blend of entertainment and wackiness.

The Saturday evening banquet is back with a New England style BBQ.

We will have a beer tent serving a local micro brew and a local distiller will be pouring our own signature Slack Tub bourbon. Collectable laser inscribed 2 liter wood casks can be purchased filled with our special label. See the website for information on the cask which can only be pre ordered and can only be picked up at the conference.

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

Classifieds

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

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Advantages of AABA Membership

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

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

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

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

Sources

AZ Tool Steel

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

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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 _____

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City _____

State _____

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Your main blacksmithing interest _____

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

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

Your dues for 2020 are due now!



*Candle holders by Ilene Jamison
Ilene made these in Dan Jennings' blacksmithing class at Mesa Community College.*