

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 169 July 2014



*John McLellan
Our May Demonstrator*

President's Message:

Our recent demonstration at the Bar U Bar ranch was a first rate event in spite of the high winds and fire restrictions. The Dentons are great hosts. Laurel supplied an excellent lunch while Barry made sure the logistics were taken care of. For those who missed John McLellan's excellent demo, you can find his extensive notes and handout on our web site.

The board has recently made several changes. Harold Hilborn has stepped down as 2nd Vice President due to his lengthy absence. He will remain on the board and we look forward to his return in the Fall. Jason LaBrash has been appointed to fill the position and will assume responsibility for planning and scheduling events. He has lined up the events for the remainder of the year as reported elsewhere in this newsletter. Look for more hands on events and return to the concept of having hammer-ins. Paul Dief will concentrate in improving our web site, especially making it more visual and easier to navigate.

Meanwhile the board has approved the changes recommended by the Scholarship Committee. The documentation is being put into final form. Look for more info about how to apply and receive scholarship funds in future newsletter articles.

Yours truly will be stepping down as president at the end of the current term. It is time to bring in some fresh ideas and new people to move AABA forward. We have a wealth of talent in our ranks and it is time we tapped into it. Getting active participation in our events through hands on activities is a good first step. A change from passive observers to active participants will have a positive effect on the energy level of our organization.

Safe and productive forging,

Doug Kluender

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**Demonstration: Saturday
July 12, 2014
Pioneer History Museum
2340 North Fort Valley Road
Flagstaff, AZ**

Demonstrator: Jay Burnham-Kidwell

Jay will demonstrate how to raise copper hollow forms. He will show basic raising techniques from copper sheet. There will be plenty of time for hands on learning so that you can experiment. Please bring an open mind, eye and ear protection.



Registration opens at 8:00 AM. The demo starts at 9:00 AM
Registration fee: \$15 for members, \$20 for non-members

- Limited camping with no hookups.
- Lunch is on your own
- Tailgaters are welcome.
- Bring things for Iron-In-the-Hat and Show and Tell.

Remember Iron in the Hat

Thanks to all of you who have participated in Iron in the Hat. By purchasing tickets and donating items, you help support AABA events and projects. Items for donation can be a tool, piece of art, something you don't need in your shop, a great book, t-shirt, hat ... something an AABA member would enjoy.

**Directions to the Pioneer History Museum
Flagstaff, AZ**

- I-17 to Flagstaff
- Pass the I-40 interchange and merge onto South Milton Ave.
- Just past the railroad underpass, turn left onto North Humpfreys Street/US 180, 0.6 mi.
- Turn left on West Columbus/US 180
- Follow North Fort Valley Road/US 180 1.5 mi. to 2340 North Fort Valley Road.

As always, safety glasses are required.

Jay Burnham-Kidwell Our demonstrator for July

Jay Burnham-Kidwell has been an instructor and metalsmith since 1975. He studied in England and Germany and earned a postgraduate degree with distinction in fine arts, jewelry and metal-smithing. He has recently been an instructor at Penland School in North Carolina as well as emeritus professor of metal arts and jewelry at Mohave Community College.

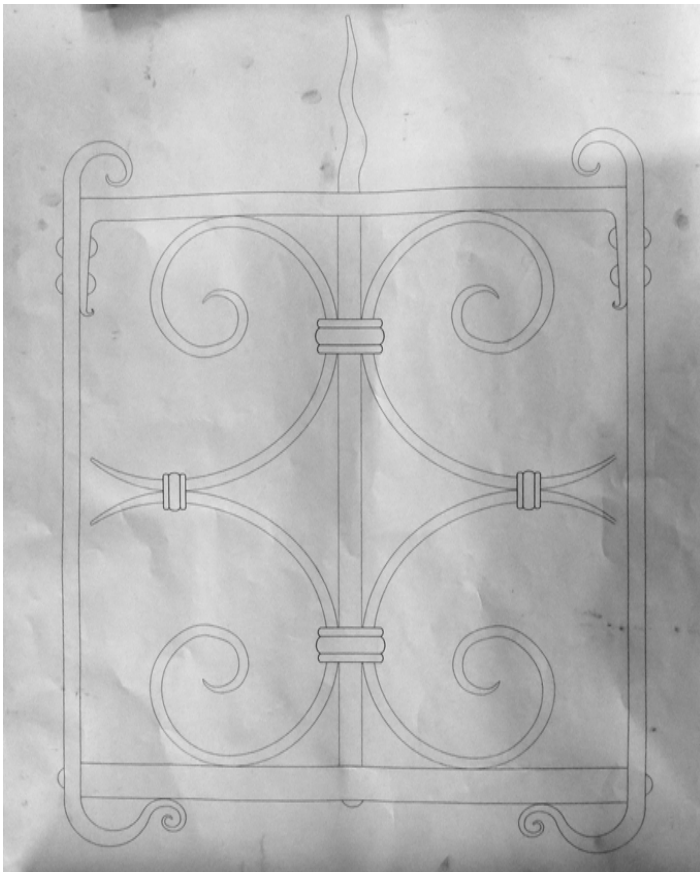
Here are some more examples of the kind of things Jay will be demonstrating at our July meeting.



May Demo Report

Barry and Laurel Denton hosted our May demonstration at their Bar U Bar ranch in Skull Valley near Prescott. Our demonstrator was John McLellen. He took us through the making of an interesting grill piece, a challenging and instructive process. John brought one of his treadle hammers and used it for in his demonstration. He also brought an induction heater which he used for several steps in his demonstration.

Fire restrictions and a chilly wind put a damper on the BBQ planned for Saturday evening, but Barry and Laurel had invited several of their friends and neighbors in on Saturday, and we had an enjoyable evening of live western music and poetry.



The drawing that John worked from.



The finished product.

May Demo Report (cont.)



John worked with his treadle hammer (above) and his induction heater (above right). That induction heater was impressive, but it wasn't ideal for heating long pieces of steel. John went back to a conventional propane forge to do the large scrolls. (Photo above left by Len Ledet.)



One of the problems with a piece like this is making several scrolls of uniform size. John uses a scroll jig and a scroll ruler (left) for situations like this. The ruler is made on the jig. The numbers on the ruler indicate the length of raw stock needed to make a scroll ending at the corresponding mark. The ruler is placed in the work piece, and the desired end of the scroll is marked on the ruler. The ruler is then placed on the jig and the needed length is marked on the jig. Then making several (more or less) uniform copies of the scroll is easy.

May Demo Report (cont.)



Laurel Denton (center) and her assistants (not in this picture) served up an awesome lunch.



There was a good selection of items for Iron in the Hat. As usual, Len ran a lively and entertaining drawing.



Detail of the wavy tail (left) and the die (above and below left) that John used in his treadle hammer to shape the tail.



Detail of one of the corners.

May Demo Report (cont.)



Detail of another corner.



Detail of the collars.



Midway through the afternoon, Laurel Denton brought her pet calf, Peaches, over for a visit.



The swage block (hardy) for texturing the collars. This block had ridges for both the large and the small collars.

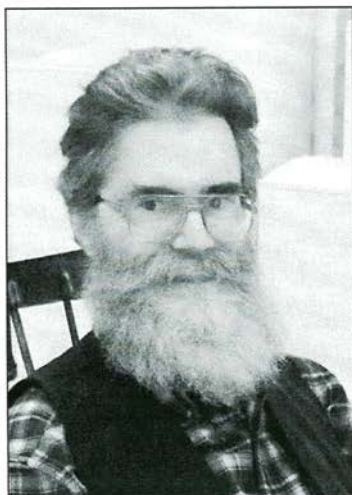
Preview September Demonstration

The Witzkes are Coming!

Our September demo will be held in Camp Verde on September 20th, graciously hosted by Bill and Karen Morris. Long time members of AABA, George and April Witzke will be demonstrating. You don't want to miss this! George will be discussing and explaining Tooling, Technique and Texture. April will also demonstrate some patinas. More info to follow in the next issue of the Anvil's Horn.

I Thought Everybody Already Knew This Save Your Hearing ~ Reduce Anvil Ringing

Chad Gagnon, Crescent City



Editor's Note. This article and result has been a big surprise. Maybe we should start calling this magazine The Anvil's De-Ring. I suspect that others of you have your favorite tricks. How about submitting them for the Everybody Knew This section.

All three of my anvils, from a 300# Arm & Hammer, to a 150# Hay Budden, to my first anvil, a 100# Harbor Freight, ring like crazy if left to their own devices.

I've tried the wrap-it-with-chain trick. Rubbish.

I've tried a thin rubber pad under the anvil. No such luck.

I've tried and tried the magnet trick. But no matter how big and powerful the magnet, they all eventually fall off at the right harmonic frequency, i.e., a well placed hammer's blow. *All* of them. And they collect iron dust so you're constantly peeling it off them.

One day I noticed I had a field-gate hinge bolt that fit my pritchel hole just right. A gate hinge bolt is a lag bolt with a right-angle hinge pin on the end to set a gate hinge.

Hmm, thought I, what if I drilled a hole in the end of that thing big enough to hook a bungee cord onto it? Don't like bungees? Try a spring. I drilled the hole, stuck it in the pritchel hole, hooked the bungee onto it, hooked the other end of the bungee onto a lower part of the anvil stand, and *Voilà!* no more ringing!

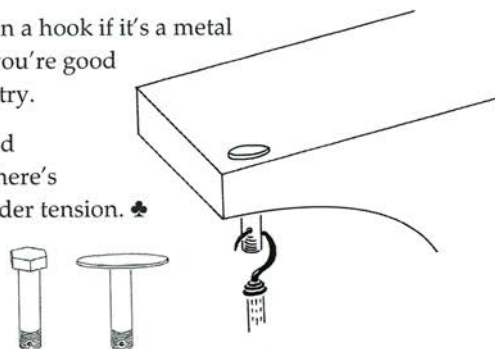
But the hinge pin of that bolt was in the way much of the time.

So I came up with this new and improved anvil de-ringer, which is out of the way *most* of the time. It still has to be removed for some hardie operations if it's in the way or for the rare use of the pritchel hole, but for the most part, the head of this thing is so thin that it hardly ever gets in the way, and the ring-deadening is blood-pressure-loweringly effective.

Start with a bolt that fits in your pritchel hole, long enough to stick out the bottom of the heel of your anvil a good inch or so. Grind a flat spot where you want the hole, center punch it and drill a hole through the bolt slightly larger than the thickness of your bungee hook. Then heat the bolt head to a good forging heat – careful of the fumes if it's galvanized – drop it in the pritchel hole and pound the head to less than a millimeter thin.

Drive another bolt low into your anvil base – or weld on a hook if it's a metal base – and hook the lower end of the bungee to that, and you're good to go. No more ringing! I'll never be without one. Give it a try.

Late-breaking news. I tried a screen door spring instead of a bungee – works just as well. It's probably safer, since there's no risk of a chunk of hot iron cutting through a bungee under tension. ♣



CALENDAR 2014

July 12
July 13
August 13-16
September 20

Demo, Jay Kidwell
Open Forge
ABANA Conference
Demo, George & April Witzke

Pioneer History Museum
Desert Rat Forge
State Fairgrounds
Bill & Karen Morris'

Flagstaff
Cave Creek
Harrington, DE
Camp Verde

Pieh Tool Blacksmithing Classes

Beginning/Intermediate Classes with Gordon Williams

Schedule:
Sept 26 - 28

\$455 for three days of classes at Pieh Tool in Campe Verde. For complete details call 928-554-0700 or browse to www.piehtool.com.

Blacksmith school looking for help

David Osmundsen operates Arrowhead Forge School of Blacksmithing in Buffalo Wyoming. He wrote, "After 10 years of running the school it is now time to expand. Typically I have taught 2 students at a time, but lately I have had to turn away students. I need to add on to the building to accommodate more students."

"I have started a Kickstarter campaign to raise the money to do so. Kickstarter is a group funding program where many people can pledge small amounts of money to help see a creative project be completed. In exchange, the folks who pledge receive rewards or gifts for their pledge. In my case the rewards are miniature anvils, tee shirts, hand forged hooks and blacksmithing classes. To see the details about this, go to www.kickstarter.com and enter Arrowhead Forge into the search engine for that site."

"Check this out if for no other reason to to have a good laugh at me on the video. Share this with your friends, neighbors and even the family members you don't like. Hey, they may like me! Thanks for helping, and for more information about Arrowhead Forge School of Blacksmithing look at www.arrowheadforge.com."

Welcome New Members

Creighton Belt
Dean Bruemmer
Jim Clark
Margaret Freyer
Tom Madden
John McLellan

Las Vegas, NV
Silver City, NM
Colton, OR
Flagstaff, AZ
Oceanside, CA
Loomis, CA

Coal order

The AABA Coal Buy Preorder for 2014 is over. The coal was delivered in mid-April. We still have several tons available for purchase starting at \$25 for 50 lbs. Larger quantity pricing will be determined on a case by case basis. Please contact Michael Sobrado at dragonforge1@cox.net with your inquiries.

MCC Blacksmithing & Welding

The Mesa Community College blacksmithing program is an excellent deal - over 60 hours of instruction including material and propane! Saturday (Jaime Escobedo instructor) and evening classes (Dan Jennings instructor) are available. Blacksmithing is WLD 103.

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

Classes fill up early. Sign up by mid-April to ensure a place in the fall 2014 classes. For more information go to: www.mesacc.edu

If you try to register for any Welding Department classes on line, you might find all classes are closed (full). Contact me (Dan Jennings) at danshammer@cox.net with the class number (time and days) of the class you'd like to take - I'll get an override number so you can sign up.

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

Formal open forges in Tucson are suspended until cooler weather. They will probably start up again on the first Saturday of October. Check the September Anvil's Horn for more details.

If you are really itching for an open forge during the summer send email to Bill Ganoe (editor@azblacksmiths.org) to see if anything has been organized on short notice.

Open Forge: Desert Rat Forge

Paul Diefenderfer will host an open forge on the second Sunday of each month from 9 am to noon, followed by lunch (You gotta' buy your own.) at the world famous Big Earls Greasy Eats in Cave Creek. Desert Rat Forge is at: 40218 N. 78th St. Cave Creek. 602-509-1543 or dief@phoenixrockgym.com

No open forge in May. See you at the demo in Skull Valley.

Directions: From the center of Cave Creek (the 4-way stop at Cave Creek Rd & School House Rd.) head north on School House 1.5 miles to Highland Rd. (If you get to the 4-way stop at Fleming Springs you have gone a tad too far.) Turn right (east) on Highland. After about 1 mile the pavement ends. Keep going on the gravel road until the pavement starts up again. Turn right through the stone walls down a paved driveway. You are there!

If You Are Attending An Open Forge...

You might not be aware but this, but these events are not funded by the AABA . They are hosted by our members for all of our benefit. So if you participate in forging ,welding, use shop materials, or accidentally damaged something. Please offer do donate to help out or help with the cost of replacing a item. Thank you! From all of your open forge hosts.

Gordon Williams Blacksmith School

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

Wanted: Living History Demonstrators

The Tucson Presidio is expanding their living history program. To keep the work load for any one individual from getting too heavy, additional volunteers are needed to be living history demonstrators, especially blacksmiths. For more details, contact Bill Ganoe or email newvolunteers@tucsonpresidio.com

Deadline: July 25 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

AABA New Member and Membership Renewal Form

Name _____
Address _____
City _____ State _____ Zip _____
Phone _____ Email _____
Professional blacksmith _____ Hobbyist _____ Farrier _____ Blade smith _____
Your main blacksmithing interest _____
Occupation or skill _____
Please check one:
Regular membership (\$30) _____
Family membership (\$35) _____

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

Make Check Payable to AABA

Call to Artists

Call for Entries – Lewton-Brain Foldform Competition 2014

The annual Lewton-Brain Foldform Competition enters its third year with a new jury member and an art book on the way. Entry deadline June 16, 2014.

FOR IMMEDIATE RELEASE

PRLog (Press Release) - Apr. 15, 2014 - FLORIDA, N.Y. -- The Center for Metal Arts is now taking entries for the 2014 Lewton-Brain Foldform Competition. This year, Alan Revere, Founder and Director of the Revere Academy of Jewelry Arts, will join Hazel Wheaton, Editor of Art Jewelry magazine, and Charles Lewton-Brain, pioneer of foldforming, to round out the 2014 jury panel. Their job begins after midnight on June 16, 2014, this year's submission deadline.

Results of the competition are widely publicized. The Center for Metal Arts hosts the international Lewton-Brain Foldform Competition each year, and has partnered with Charles Lewton-Brain to release an art book this summer to celebrate the event's inaugural two years. Art Jewelry magazine will present winning entries in a print issue and special online gallery again this year. Top entries are also shared in video format. See the 2013 gallery at <http://tinyurl.com/lpvepf9>, and video at <http://youtube.com/GInkdqJpcX8>.

Prizes for 1st, 2nd, 3rd place and Honorable Mention will include gift certificates from Rio Grande and hand-selected items from Charles Lewton-Brain. Additional entries are recognized in a Jurors' Choice round. Winners will be announced on Aug 1, 2014, during the annual four-day workshop intensive with Charles Lewton-Brain at the Center for Metal Arts, at the yearly Friday night dinner preview of entries. For details visit <http://www.centerformetalarts.com>.

The Lewton-Brain Foldform Competition is a survey of the evolution of foldforming as it is applied in the world today in large and small scale; in jewelry, sculpture, architecture, functional objects, and unexpected applications. Recognition goes to excellence in craftsmanship, original or innovative design, and overall visual impact.

Master goldsmith Charles Lewton-Brain is Head of the Jewellery/Metals Program at the Alberta College of Art and Design. He is a world renowned author, educator, artist, and has pioneered the innovative suite of metal techniques known as foldforming. He is the author of Foldforming, the definitive book on the topic.

Contact

The Center for Metal Arts
(845) 651-7550

Call to Artists

The Tucson Jewish Community Center is accepting applications for its 6th Annual Outdoor Sculpture Exhibition, March 8, 2015 – March 1, 2016. All materials should be appropriate for an outdoor, desert environment and sculptures will be available for sale with 35% commission to the TJCC. Each selected entry will receive a \$500 honorarium. Lee Karpiscak, retired assistant director of the University of Arizona Museum of Art, will jury the show.

Please submit all application materials on CD.

Deadline is Tuesday, September 30, 2014 • 5 P.M.

Please visit <http://www.tucsonjcc.org/arts/sculpture-garden/call-to-artists/> for all pertinent applicant information. Address any questions to Lynn Davis, Director of Arts and Culture for the Tucson JCC, at (520) 299-3000, x106 or email sculpture@tucsonjcc.org.

Kaowool Alternative

Ira Wiesenfeld suggested that some members might be interested in Superwool HT as an alternative to Kaowool. While its rated working temperature (around 2,300 deg. F.) is lower than that of Kaowool (around 2,600 deg. F.), it is supposed to be safer than Kaowool. Both Kaowool and Superwool are manufactured by Morgan Thermal Ceramics (<http://www.morganthermalceramics.com>), and product data sheets and safety data sheets for both products can be found on the Morgan Thermal Ceramics web site. Both products are being sold by a number of pottery supply outfits. Ira found a listing for Superwool at Axner Pottery Supply (<http://www.axner.com>) in Oviedo, FL.

Angle Iron Plants

David Bridenbaugh

Here is another idea to use short pieces of angle iron. The angle iron is hammered flat and then each leg is curved using the hardy tool. The corner of the angle iron becomes the vein of the plant. It was not obvious if it would look better with the vein up or down so I tried it up. Grind a smooth curve on the end of each piece and weld to a short length of rebar. The rebar can be sharpened to stick in the ground or glued into a rock.



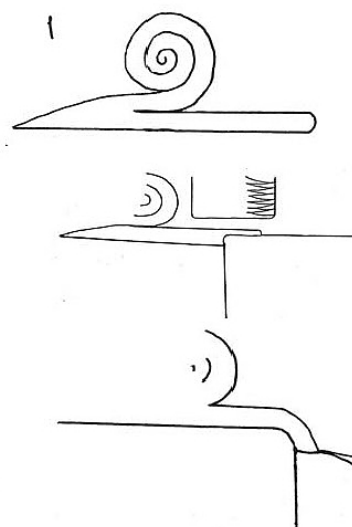
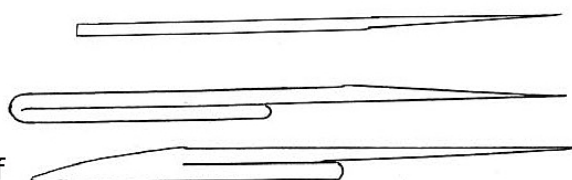
Live up to your Expectations.....Work at a Snail's Pace!



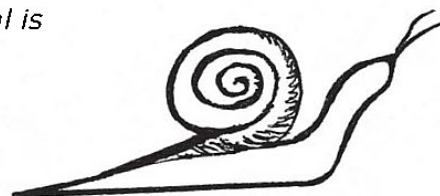
PAABA member Don Pfaff has contributed several great projects for the PAABA newsletter. This particular project has the possibilities to add to projects you already make or plan to make. For an outdoor or indoor botanical sculpture, a snail can add that extra something to make it special. They can also be used as a garden gate latch, drawer pulls, or door handle. You can weld a wood screw to the bottom. To quote Don, "For a letter opener, just sharpen the tail to open 'snail mail.'" Celebrate the snail in your work and you can go as slow as you like, but you won't want to after you get the hang of it...the project will move right along!

You can make a snail from any round material, Don used 1/4" X 10" for his demonstration at Brad Weber's, May 2013.

1. Long taper
2. Fold 3" under
3. Forge weld 1"
4. Forge out tail always keep bottom of snail flat on anvil.
5. Roll up shell tightly
6. Place head of snail over rounded edge of anvil the distance of the stock thickness. Shell Up! 1/2 face blow.
7. Split eyes and file
8. Bend head down over round anvil edge
9. Heat and bend neck into position



Don's snails are very detailed. Even a small project like a snail can be elevated using good craftsmanship. Note how perfectly Don's spiral is tapered!



This might work in some of your botanical projects.
Reprinted from the PAABA newsletter.

California Blacksmith Association Spring 2014 Conference



Peter Parkinson's Friendship Ring created at the California Blacksmith Association's Spring 2014 Conference. Peter had a small group of people helping to assemble and finish the piece. (Photo by Paul Boulay)

Members' Gallery



One of Dan Jennings' students, Michael Thurber, made this hammer in class. It is made from an axle from an unidentified truck. In the process he broke two punches made from coil spring, so they found a jackhammer bit and made a punch that worked very well.



Delaware State Fairgrounds in Harrington, Delaware

Demonstrators

We are working on a slate of demonstrations that will reflect the theme of the conference, and are in discussions with smiths from South America, the UK, and Europe, as well as the US, including the Colonial Williamsburg Smiths, and the Patient Order of Meticulous Metalsmiths. We are striving to have a variety of demonstrators covering a wide range of styles using tools from hand hammers to forging presses and power hammers; an iron smelt; and copper- and silversmiths. Our hope is that the only attendees we might not be able to please will be those that want to see everything! As demonstrator details are confirmed, their demonstrations will be posted on the ABANA website.

Teaching Tent

Mark Asprey and Darryl Nelson will be heading the Teaching Tent with an expanded format that will give more attendees the opportunity to participate in this well-received program.

Vendors and Tailgating

There will be indoor vendor spaces in air conditioned comfort with tables and chairs where attendees can take a break from the heat, make connections with other attendees, reminisce with old friends, and make

new ones. Outdoor vendors and tailgaters on an as available basis will be housed in a large pavillion. Tailgaters and outdoor vendors operating power hammers etc. will be on an adjacent parking lot.

Seminars

We will have a variety of seminars on blacksmithing related topics in rooms around the grounds.

Family Activities

We are planning to have Arts and Crafts projects available.

Iron In The Hat

What would a conference be without Iron in the Hat? 2014 ABANA Conference will once again be having the Iron-in-the-Hat fundraiser for our educational mission. We have secured two large items for the conference, a Clay Spencer Tire Hammer made and donated by Clay, and a BAM box made and donated by Pat McCarty. Please consider making a donation of quality, well-made tools to fill the box. Any additional tools received, after the BAM Box has been nicely filled, will go to the Iron-in-the-Hat daily drawing. Please consider applying your personal touchmark to donated tools as it will add special meaning to the new owners. Our Scholarship and Grant programs depend upon these funds raised during this event.

Auction

The 2014 ABANA Conference will close with an exciting Live Auction! Many of the projects made by the demonstrators and many of the Gallery works will be auctioned. The Auction benefits the educational purposes of ABANA. Saturday, from 6:30 p.m. until ?? Open to the public!

For up to date information and a registration form, go to the Web:

www.abana.org

Need a ride to the conference?

ABANA has set up a group on eRideShare.com to enable people to find or offer rides. Go to :

<http://abana2014.eridshare.com>.

You will need to create your own password protected account and then, to post a ride request or offer , or to respond to a ride request or offer, you will need the Group password. To obtain the password send an email to centraloffice@abana.org

Classifieds

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

Power Hammer-Ron Kinyon built

80# Mark II air hammer.
Multiple die sets and accessories. Runs great. \$3,500

Todd 480-299-5673

McLellan Treadle Hammer

The latest design smooth operating straight line treadle hammer. Reduced operator fatigue due to unique shock absorbing treadle design. Save some real money by picking up the hammer in Phoenix. Complete hammer as demonstrated at Skull Valley \$2800.

DIY kit with full plans and hardware \$850.

Doug Kluender 602-818-1230

Will buy your unwanted

blacksmith or horseshoeing tools and supplies.

Call Barry Denton, 928-442-3290 any day before 7:00 pm.

Bob Gilsdorf is moving.

I cannot take my blacksmith shop with me. I have to sell all the big equipment. I have : Little Giant Power Hammer (88# I think) - works perfectly with the motor mounted on the top of the hammer, 4' X 8' X 38 " steel welding table mounted on two inch pipe stand with screws, 2 post vices, large swage block with a stand, multiple hammers, and hammer heads with no handles, many hardies, 3 portable forges with tuyers for hand pumping of air, a large collection of tongs, melting pots, and fire tools. There is a 50 gallon garbage can full of coke. I have a belt sander one inch wide belt, a 220 volt arc welder with some rods. There is a lot of scrap iron and stuff that may be of interest. There is a wall mounted hand run drill press and a lot of other antiques.

My shop is at 5416 E Calle del Medio, Phoenix, AZ 85018. This is 4 blocks south of Camelback on 54th street. Phone 602 908 2598. Email: rbgilsdorf@cox.net. Come in and make an offer.

Wanted:

Hydraulic forging press. Tumbler, about the size of a 50 gallon drum.

Ira 520-742-5274
treeira@hotmail.com

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.

Contact AABA member:

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

Sources

Tucson Iron and Metal

Steel, aluminum, stainless, copper and brass for sale by the pound. Open Monday - Friday 8 - 4:30. Also 1st and 3rd Saturdays 6:30 - 8 am. specifically for metal artists.
690 E. 36th St., Tucson, 520-884-1554

Bar U Bar Supply

Several 65 lb. & 85 lb. swage blocks for sale. Your source for anvils, post vices, and other new & used blacksmith tools. Barry Denton. ph 928-442-3290 email: barubarranch@gmail.com website: www.barubar.com

A Copper Rose Metal Art

Chasing/Repousse Pitch
Debra Montgomery
www.chasers-pitch.com

Brent Bailey.

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

Pieh Tool Company, Inc.

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

Scottsdale Farrier Supply

Mostly farrier supplies, but has hammers, tongs, and other blacksmith goodies.
NW corner of Power and Williamsfield Rd., Mesa.
480-838-4455

IMS

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

Pacific Insulation Company

Supplier of high temp insulating materials, bricks, Kaowool and other refractories.
215 S. 14th St., Phoenix.
602-276-1361

Vern Lewis Welding Supply

Discount pricing for AABA members. Various locations in the Phoenix area. 602-252-0341
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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 \$30 for individuals; \$35 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.

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