

BAM

March-April 2005



Maurice Ellis demonstrating making an open die

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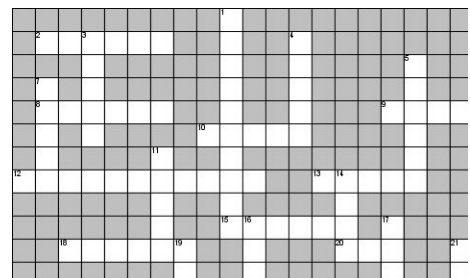
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Vandike Fire Tools



John's broad head



Puzzle on pg 21

Newsletter of the Blacksmiths Association of Missouri

Volume 22 No. 2

March-April

2005

Editor

Bob Ehrenberger

Photo Contributions

Bob Ehrenberger

Dave Edwards

Bob Stormer

John Bouchillon

Presidents Message

Don Nicols

Mailing Labels

Bruce Herzog

The Newsletter of the Blacksmiths Association of Missouri is published six times a year and is mailed to members of BAM. The annual fee for regular membership is \$20/year; a portion of this amount is for a subscription to this newsletter for one year. Editorial inquiries should be addressed to: Bob Ehrenberger 6192 Hwy 168 Shelbyville, Mo 63469 or email to bameditor@centurytel.net BAM membership inquiries should be addressed to: Bruce Herzog, 2212 Aileswick Dr., St. Louis, MO 63129; (314) 892-4690 or send e-mail to bjherzog@msn.com. Occasionally some material will be copyrighted and may not be reproduced without written consent by the author. BAM welcomes the use of any other material printed in this newsletter provided the author and this organization be given credit.

Membership Application

Name: _____

Address: _____

City: _____ State: _____

Phone: () _____ Zip: _____

E-mail: _____

New Member Renewal ABANA member?

How did you learn about BAM? _____

Memberships are for one year from receipt of dues. Dues are \$20, which includes a subscription to the bimonthly BAM newsletter. Please make checks payable to Blacksmith Association of Missouri.

ABANA Membership Application

Primary ABANA Chapter Affiliation: _____

Name: _____

Address: _____

City: _____ State: _____

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New Member Renewing Member

Includes a Subscription to the Anvil's Ring and The

Hammers' Blow magazines

Regular Member\$45 yr.

Senior Citizen (Age 65+)\$40 yr.

Full time student\$35 yr.

Overseas airmail\$80 yr.

Overseas surface mail\$60 yr.

Contributory\$100 yr.

Full time student\$35 yr.

Public library\$35 yr.

See reverse

From the Editor

By Bob Ehrenberger

Well it looks like I survived the first issue in pretty good shape. Thanks to all who sent notes of encouragement. The week after I shipped it off to the publisher I found a couple things that I had intended to include, but forgot. I'll try to do a better job of organizing my material in the future.

One of the resources and perks of being the editor of a blacksmith group news letter, is receiving newsletters from several other groups. This gives me a lot of information to draw from. Plus I'm learning from all that great information. One of the things I've noticed is that if one newsletter has a great article, it will probably show up in several other publications in a couple months. Another thing I've noticed is that the editor's job is a difficult one, based on the fact that in about half of the newsletters the editor is either introducing himself (as I did last issue) or is apologizing for being late. Thus comes my shameless plea for material from our members. I can reprint stuff from other newsletters to fill space, but I would rather publish articles about and by BAM members.

There is one thing I wanted to write about last time but ran out of space so here it is.

My one and only encounter with Bill Gichner came at the Ozark conference in Potosi around 1996 or 1997. I had only been in blacksmithing for a short time and so Daniel and I always hit the tail gate area pretty hard. We still needed a lot of stuff. Bill was there with his stuff spread out and as many of you know he had a great respect for the value of a good tool, and refused to part with anything at a bargain price. Daniel was only 13 or 14 at the time and generally a pretty good negotiator when purchasing tools of antiquity. Well he

told Bill that his tools were overpriced and could be purchased for less at other tail gates down the row. This usually is a good way to get the seller to knock off a few bucks on the price. Bill did not respond as expected. Instead of negotiating on the prices, he gave Daniel a lecture on the value of buying good tools. Not only did Bill give Daniel an ear full, but every



time Daniel walked by Bill would give him another lecture. Daniel was like a hunted man, he never knew when he was in for another lecture. By the end of the conference he would make a wide detour around Bill to avoid contact. I didn't understand who Bill was, at the time, but knew he was someone special by the respect he commanded from the people that I respected. I know that Daniel will never forget him.

In all likelihood this won't come out until after conference. But just in case, I'd like to remind you again to bring items for the auction, the BAM boutique, and the Gallery.

BAM Roster

In getting to know our publisher I found out that I can actually add 4 pages to the news letter for the same price or less. It has something to do with an easier layout for 32 pages than for 28. I have no illusion of expanding the newsletter to that size but I was thinking that it would be possible to publish the BAM roster as a pull out section and not have much impact on the price or content of the publication. Right now I'm thinking of doing it sometime this summer.

New Publishing Software

Another project that is in the works is switching over to a new publishing program. Support for the version we are currently on is about to be dropped by our publisher. Ned had already purchased a new package, but never got it installed. So I have the software. I just need to get it put on the BAM computer and learn a new way of doing things. I'm not all that familiar with the old program so it shouldn't be too hard to learn a new one. If there are any

"InDesign" users out there you may want to drop me a line if you would be willing to help me over the transition. Especially if you are also familiar with "Quark".

June meeting.

I have a schedule conflict with the June meeting. So I won't be attending it. I need someone to submit a report on the weekend, and someone to write up the demonstration.

I have new E-Mail addresses:

eforge@centurytel.net

bameditor@centurytel.net

Minutes BAM meeting 1/22/05

By John Murray

Editor Note: Sorry these are late, they got delayed in the mail.

Thanks to Ken and Don and the school for hosting us. Thanks to the ladies who fed us. (great lunch).

Thanks to our fine demonstrators today.

Bruce Herzog gave a financial report. 573 members.

Membership dues will increase to \$25/year in 2006 (still a bargain)

Peggy Williamson spoke on the state fair last year and this year. (August 11-22, 2005).

Don Birdsall spoke on the mobile teaching station. Instructors needed.

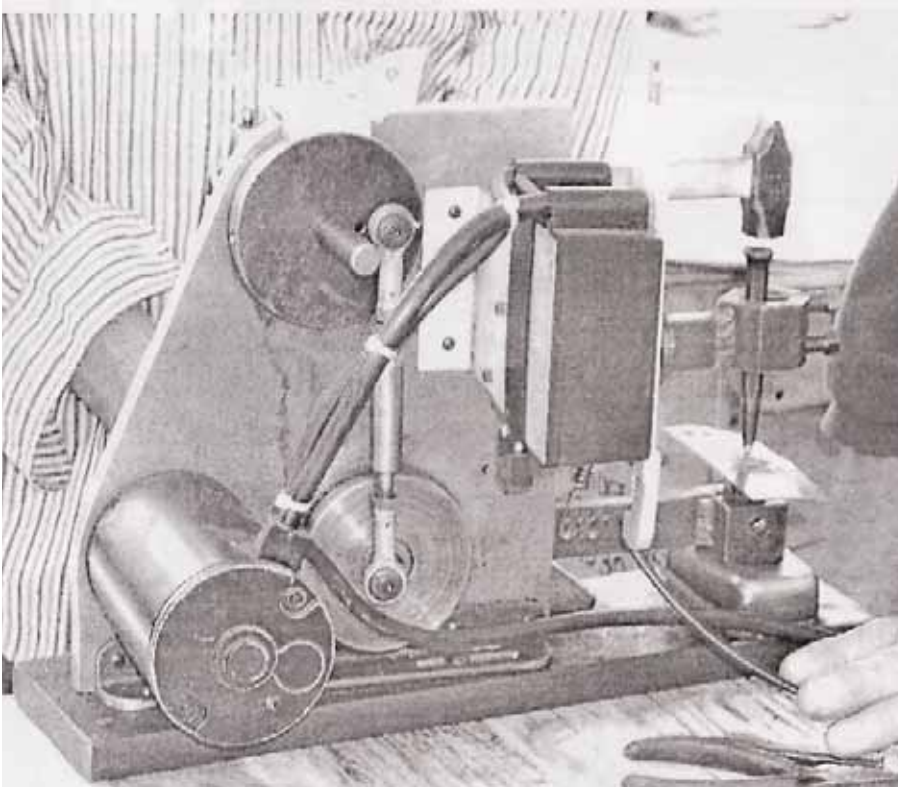
Dave Smith gave a report on the 2005 conference plans. Information, maps, etc. will be published soon.

Fred Weisenborn spoke on a possible group anvil buy. More info to come.

Mike Williamson spoke on the BAM library.

Bob Ehrenberger mentioned that the mobile training station needs an oxy/acct set up. Dave Smith said he has a set BAM can use. Thanks Dave we appreciate your generosity.

Tom Clark spoke on meeting scheduling stressing the need to avoid conference dates with other regional chapters.



Next meeting at Maurice & Bess Ellis's shop. on March 19 2005.

Adjourned

Picture of a cute little trip hammer

Looks like about a 1 pound head, maybe less

Reprinted from:

NRBA News Summer 2004

A Word From Old What's His Name By Don Nichols

Howdy Guys & Girls,

I imagine you get tired of me saying we had another good meeting, but if you were there you know it was top of the line. We had a very good turn out. Thanks for coming.

As always, Maurice and Bess did a Bang up job. The lunch of homemade stew and cobblers was delicious. Bess said Maurice helped with the meal. Thanks to both of them for everything.

The demos were good too. I'm sure Bob will tell you more about them.

Again, I want to praise all the ones who made trade items. They were very good. Thanks!

By the time you read this our conference maybe over. I hope you made it and enjoyed it as I always do. Hopefully, I will make an announcement that we could use a coal distributor down south on the east part of the state. We need someone to take over Doug's area. We may still need someone to do Bruce's job of membership and treasurer.

See ya later. Old What's His Name

P.S. Remember Dale Gilman's meeting on June 3&4th . He's got plans to keep us busy on Friday and Saturday. See you there!

Don Nichols

Copper Patina by Kirk Sullens

Here's a tip for a copper patina, similar to the brass patina you put on hot with a fine bristle brush, that I did for a special project:

You apply the brass when the steel is hot, 800 or 900 degrees. That's too hot for the copper. I'm guessing, but I'd say the copper goes on around 300 to 400 degrees.

I couldn't find a copper brush, so I bought copper pot scrubbers from Wally World, and they work OK. If the steel is too hot, the copper will turn purple or just disappear. If too cold, nothing happens. I had to re-apply 5 times to get an even color. The good thing was, I didn't heat the steel enough to ruin the brass patina while I did the copper.

This project is called "the color of the wheat".

Kirk

You can't see the color here, But it's a pretty cool piece of work.



Minutes BAM meeting 3/19/05

By John Murray

Big thanks to Bess & Maurice for a great meeting & great lunch..

Bruce Herzog gave a treasurer's report
579 members
Bruce also spoke on the "05" BAM conference, and on the various classes available.

Speak to Bruce if you want to be our new treasurer.

Peggy Williamson spoke on the State fair situation. Call if you'd like to demonstrate or help (Aug 11-20)

Don Birdsall spoke on the mobile training station and classes. The MTS trailer needs some lighter hammers in the 1.5 to 2 pound range.

Don Mentioned that Bob Alexander is out of coal. More will be available in a couple of weeks.

Don Nichols and Don Birdsall called for helpers for setup Friday at the 05 conference.

Don mentioned our annual elections at the conference

Larry Hull gave a conference report.

Come to the conference and have a great time. Don't forget items for the auction, the BAM Boutique, & the gallery.

Dave Shepard mentioned that a blacksmith is need for the Montgomery County Threshers Assoc. Meeting Aug 20, 2005.

Bob Ehrenberger mentioned that there was a chance to have his meeting catered by a cowboy chuckwagon. The cost would be \$8/person. We decided to go with it, and order 75 meals.

Adjourned



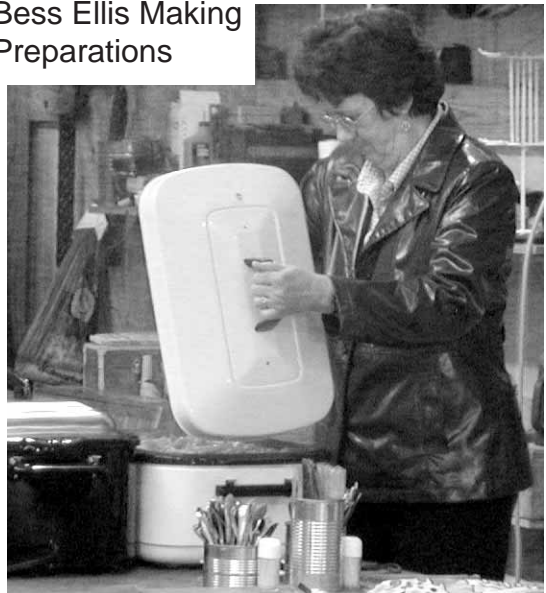
Trade items were made by:

John Murray, Dan Wedemeyer, James Rumbo, Bob Ehrenberger, Alan Wofford, Maurice Ellis, Bess Ellis, Pat McCarty, Don Nichols, Ed Harper, Kevin Brinker, Fabian Schilly, Larry Crow, John Huff, Leland Gielow.

Iron in the Hat items were donated by:

John Murray, Bess Ellis, Pat & Mary Jo McCarty, Jim Vandike, Don Birdsall, Maurice Ellis, John Huff, Don Nichols, Leland Gielow, Peggy Williamson, Jim Conway, Fabian Schilly, Andy Herzog

Bess Ellis Making Preparations



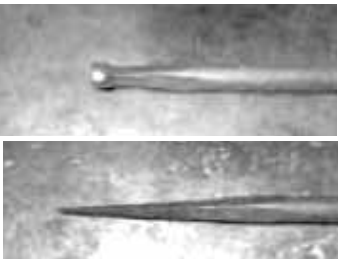
Nail Header Instructions

by Tom Clark

First off, thanks for your interest in our product. All of our nail heading tools are made from 5160 spring steel and are 100% hand forged, punched, ground, and tested for quality before we will let them go out the door. This tool, along with a little practice and patience will provide you with some of the basic skills that will develop hand/eye coordination, stamina, and hammer control that is essential for a blacksmith.

Forging Instructions: All of our headers are marked for the size of round stock that is used to make the nail. This size is not the actual size of the nail that is being forged.

Start with your round bar, get it to forging temperature and draw out a tapered square point. Your tapered stock should fit into the header to where the square taper you just made starts to make its transition back into the round stock. This will determine where you want to cut your stock so that you leave enough material to make the head of the nail.

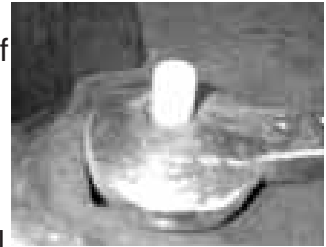


After you know how much stock you will need to make the head, use your hardy to cut a little more than half way through the stock. We do this process so that we do not have to worry about losing a short nail in the fire. You can use the remaining stock as a handle and not have to fumble around with tongs, if you are not comfortable with using them. Also, make sure that you bend the nail at the cut point in this step to insure that you will not burn your small point in the fire.



Once the nail is good and hot, place it in the header tool and simply twist off the remaining stock, place the tool over your hardy hole, lightly tap the head of the nail to straighten the stock, then drive the nail straight down and hard with your hand hammer. This should be a quick

process. Once you have made your desired head, break the edges or you can do as we finish ours. We make five even blows on the edge of the nail head. Feel free to experiment and develop your own style of head.



Turn the header over and let the head cool on the face of the anvil. When it cools slightly, the nail will fall right out of the tool and you have your finished nail. If at any-time you loose your heat, stop and reheat your nail. If you drive a cold nail into your tool, it will not come out easily.



When making the nail head, practice on getting the head in the center of the nail. This is not easy! You have to hold your hammer at the correct angle, and make sure to strike the head with good flat blows. If you do not pay attention to detail, your head will be off to one side of the nail.

With practice you will be able to do all the above steps in two heats. It is possible to do it in one heat, but take your time and learn the correct process before pushing it too much. Take as many heats as you need to do it correctly.

. If you have any questions, please feel free to contact me at:

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Editor Note: For as long as I've been a member of BAM, Tom has taught nail and nail header making. He also competes in nail making contests around the country.

Making a Calla Lily Candle Cup,

mixing traditional and modern methods

by Jr. Strasil aka irnsrgn

The parts to make a simple bottom V swage that will make the forming of the petal easy and will also be useful for other projects. It is 1-1/2 inches of 3/16 by 1-1/4 angle iron with all the edges and corners rounded slightly with a piece of 1/4 by 3/4 bent 180 degrees to fit the Hardy Hole . The V swage welded together.



The V swage setting in

the Hardy Hole

ready to be used.



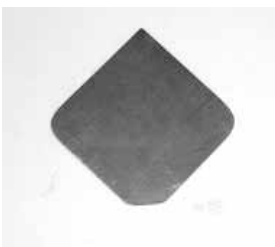
The 2 parts of the lily, in this case a piece of 16

gauge material 3 inches square, and an 18 inch piece of 1/4 inch hot rolled round.

The piece of 16 gauge with the two outside corners rounded, and the cut



off for attachment to the stem, the length of the bottom cut should be 1-1/2 times the circumference of the rod.

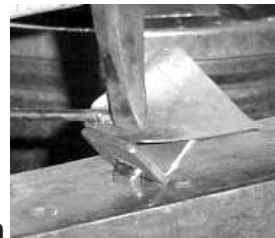


The rod welded to the petal in the middle of the bottom cut.

Working the bottom



edge of the petal first with a cross-pein hammer, the far edge has been rolled some already, do not work so much of the first edge that you have to straighten some of it back out to get to the second edge. Do this at a red heat to prevent putting hammer dings in the petal.



What it should look like with the edges rolled and the center worked a little.



A 1 pound hammer with one flat face and one rounded face. If you



do not have one you can round the face of a ball pein hammer of about 1 pound and polish it, it will come in quite handy at times.

Use the flat face of the hammer to finish rolling the edges around, they should overlap some. Make sure to work the the bottom of the petal close around the stem, do not work all in one place, try to keep the edges as straight as possible.



Work the edges together on the horn of the anvil



using the flat face of the hammer. Using the horn of the anvil as a

bottom fuller and the round face of the hammer to finish closing the base of the petal around the stem, this is done at a red heat, the stem should also be aligned with the petal at this time and the stem straightened. This is what the project should look like at this stage.

At a red heat, roll the edge of the petal over on the round edge of



the anvil, but do not go all the way to the back, then do the other side the same way, using a

round face hammer. Using a cross pein hammer roll the the tip of the petal over the anvil horn.



Lightly hammer the stem to give texture if you wish.

Wire brush with steel wire brush to remove scale



and while petal is at a black heat, highlight the edges of the petal with a brass wire brush both inside and out.

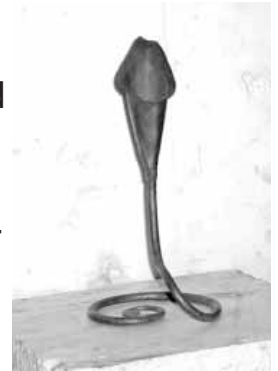


The finished Calla Lily Candle cup.

A large Calla Lily made from a 5 inch square piece, with a snub end

scroll base for larger candles.

This Lily took me approximately 15 to 20 minutes to make, including the V swage. irnsrgn



Jim Vandike instructing Ken Lane on making a chain braid handle.



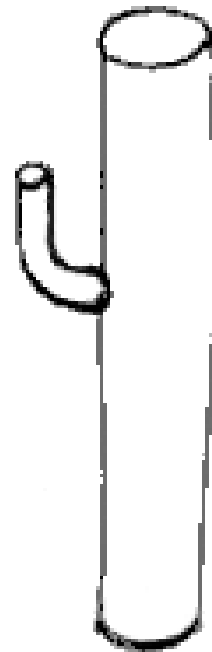
Chain Braid Handle a Jim Vandike demonstration Article by Bob Ehrenberger

Jim uses this handle style on fire place tools because they have a nice feel in the hand and are attractive to look at. He calls them a chain braid because at first glance they look like a chain. You can use any size stock to start with, the rule of thumb is that the handle will come out approximately 4 times larger than the original stock. For his demo he used 1/4" round which yielded a 1" square handle. Because the eye comes out of only one of the bars that bar needs to be longer. Jim used two pieces of 1/4" rd one 30" long and the other 34" long.

Getting started is the hardest part, for that Jim has a special jig made that makes the eye and the first loop. This jig has a mandrel the size of the eye you want and a stop the same size as the stock you are using and offset the distance of the stock thickness.

Wrap the longer piece around the mandrel, slide down behind the stop. Heat with a torch and then bend back over the stop. The result is a shape like a lopsided figure-8.

Drive off the jig and lock the large loop in the vice. Run the second bar through the small loop, heat with a torch and



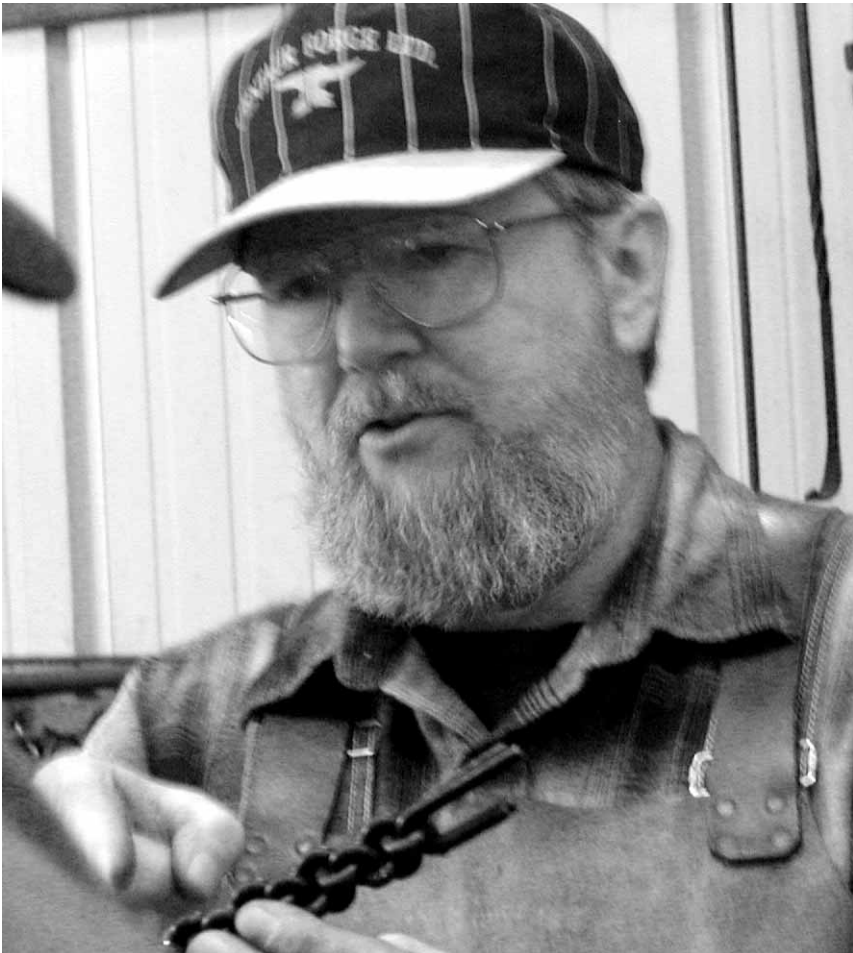
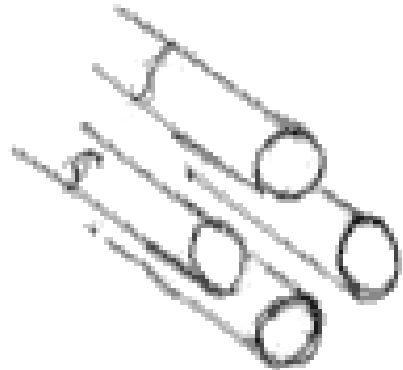
bend back over the first bar. At this point it looks like a big X, like in the picture to the left.

Continue the braid by heating the bottom bar and folding it back over the one on top of it. Jim said that if you heat behind the bend it will be easier to keep the bends tight. If the bars get so hot you can't keep the bends tight, just take out of the vice and cool the whole thing.

Chain Braid Handle continued...

When the bars get too short to hold by hand, Jim uses a piece of pipe to bend them back.

When the bars get to 1 1/2" or so you need to bend them straight up to get ready to connect them to the tool. The bottom bars are pretty easy to bend up you just stop bending half way. But the top bars which are unsupported are a little tougher, Jim would bend them up as best he could and then hammered on the pipe to square up the bend. He then trims them all the same length.



To prepare the tool to accept the handle, he upsets the 1/2" sq. bar until it was approximately 1" sq. He then makes a 1/2" sq. tenon on the end of it. The handle is slid over the tenon and welded in place. Jim arc welds it, and fills in the gaps to match the upset.

Editor note: If you want to forge weld the two together you would want to make a larger tenon, say 3/4" to allow the fingers to flatten a bit

Above, Jim holding handle before trimming, Upper Right, illustration after trimming. Right, finished handle on tool.

John Murray demo on Making Arrow Heads by Bob Ehrenberger

John related that he had recently been invited to attend an ArrowSmith guild meeting in England. He was lucky enough to be there when they were judging the Journeyman and Master Smiths. The quality of their work was inspiring. When they inspected John's work they were disappointed that he had sanded the shafts instead of using a plane. That was the level of detail they wanted.

John proceeded to show us how to make two different types of arrow heads. The bodkin-armor piercing and the horse head-which we know as a broad head.

Bodkin arrow head (armor piercing)

Starting with 1/2" sq. stock section off about an inch of material using the near edge of the anvil.

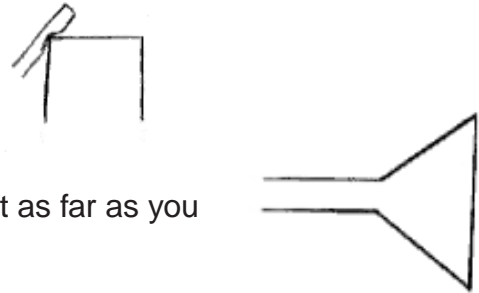
Spread with a cross pein hammer. You can't get it too thin, push it as far as you can.

Trim into a fan shape with the shear. You could also cut with chisel, file or grind to get the shape.

Start the socket on the step of the anvil, finish over a tapered mandrel the size of the arrow shaft.

Cut off on the hardy leaving about an inch of material to forge into the tip.

Make sure that the tip is lined up with the shaft. The tip can be case hardened in casite powder, which will leave it hard enough to pierce armor.

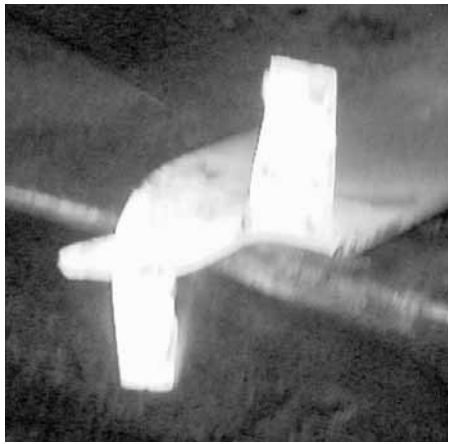
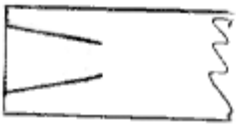


Making Arrow Heads continued...

Horse Head arrow head (Broad head)

To make the broad John started with 1/8"x1 1/4" flat stock.

The first step is to make two cuts to separate the barbs from the socket



Next you have to bend the barbs out of the way.

Then you have to make the socket, start with spreading the material as thin as you can.

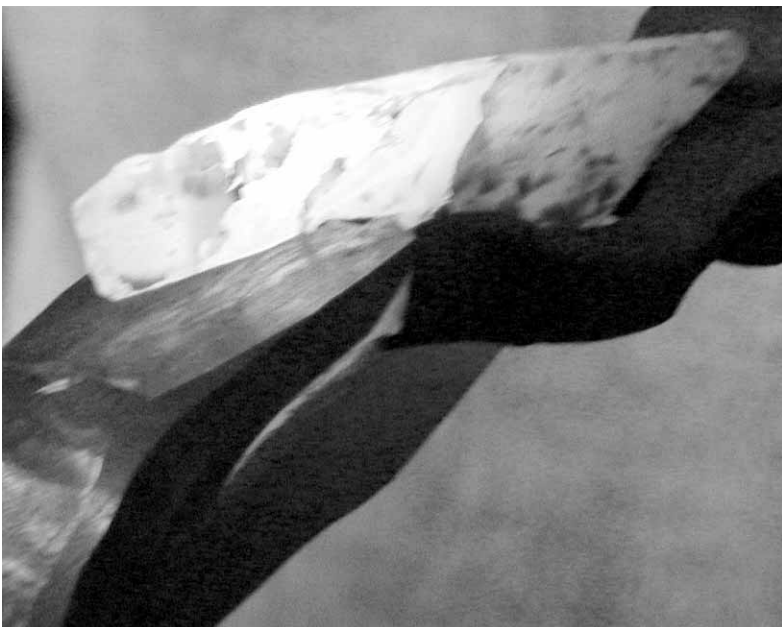
Roll the socket using the step of the anvil and shape on the arrow mandrel.

When the socket is done bend the barbs back into place and cut the arrow head free from the main bar.

You can cut it at an angle to establish the point at the same time.

The barbs are then forged into shape on a special stake tool, which lets you get to them without disturbing the socket

Once the barbs are forged take another heat to get everything aligned before cooling.



ED Harper Demo, Treadle Hammer Tongs By Dave Edwards & Bob Ehrenberger

Last September Ed demonstrated his method of making tongs using his treadle hammer and a special set of dies that he has developed for the purpose. I had a conflicting event so I wasn't there but Dave Edwards shared his notes and pictures with me. Then at Maurice's meeting I got Ed to walk me through the process and let me take some of my own pictures. This article is a composite from all three of us.

Depending on the size of tongs he is making Ed uses either 3/8", 7/16", or 1/2" round stock.

The first step is to make the half round offset in the jaw. To do this Ed has a die that is a piece of 3/8"x3/4" bent into a half circle and welded to a support for the bottom tool, and a slice off a solid round bar welded to a handle for the top tool. The top tool has been ground flat on one side to make it easier to strike. Depending on the size of tongs he wants to make he has a different rounding die. The bar is placed over the die with about 3/4" sticking past, the top tool is put over it and struck. Ed alternates between using the top tool and hitting with the flat treadle hammer top die to keep the jaw lined up with the reins.

Next the boss is flattened. For this he has a piece of plate with a handle and depth stops welded to it. the plate is put over the tong just behind the half round and struck. because the tong is supported on the bottom by the large 4x4 dies of the treadle hammer all the forging is done on the top side, this helps to center the jaws. Make sure you make the boss on the same side of both tongs, otherwise they won't go together right.

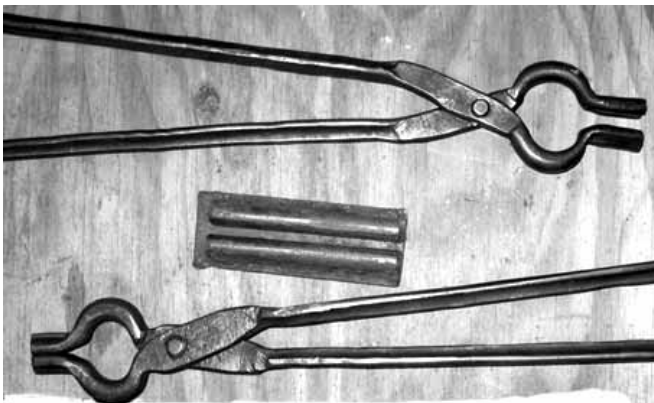
Next comes the reinforcing rib on the reins. The die for this is a plate with two pieces of round stock welded to it and two pieces of square stock to act as stops. The reins are laid over the round stock and driven down until the treadle hammer hits the stops.

The final forging step is to shape the mouth of the jaw. This is done over the rein die, but instead of hitting with the treadle hammer directly a fuller is used on top to give you the curve to the grip that you want. You could also drive a piece of the stock you want to hold into it to get a perfect fit.

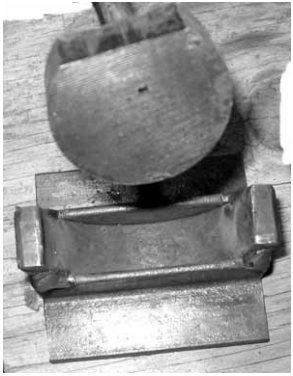
After all the forging is done, lay the two halves together and to decide where to put the rivet. Either punch or drill the holes in the boss.

It is usually a good idea to bolt the tongs together while you are doing the crude adjustments, so if you have to do any more forging you can take them apart. Once you are satisfied with the fit, rivet them together. they can be fine tuned after riveting by heating them, putting a piece of stock the size you want to hold in the jaws, tightening the jaws in the vice, and moving the reins to get the proper space for your hand hold.

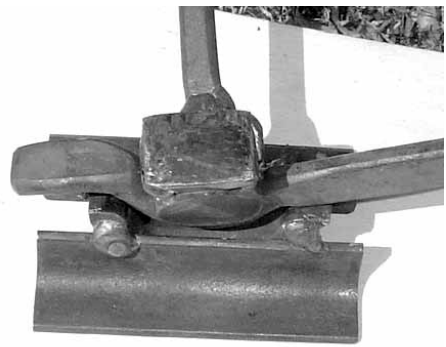
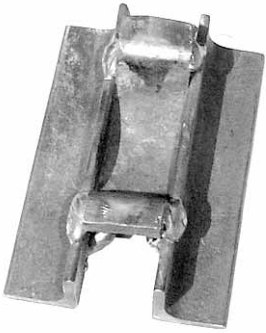
finished tongs



Treadle Hammer Tongs continued...



Half Round Dies with and without top tool



Forming half round



Flatter



Flattening Boss on tongs



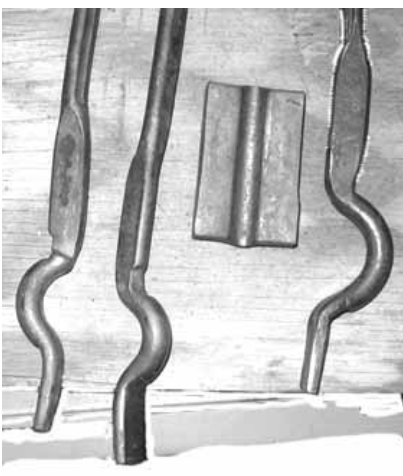
Rein die



Forging Reins



Setting shape of Jaw



Finished tong Components

Reprinted from the Prairie Blacksmiths Association newsletter Jan-Feb 2005

Making a dish tool out of something intended for another purpose

by irnsrgrn, Jr Strasil



dt 001--The Victim-err-Subject of this evening's surgery lesson. This is a faulty Pintle Hitch Ring or Lunnette given to me by Jim Carruthers when I visited him in October. I finally figured out a use for it, I am going to make a dishing tool out of it for making ladles, etc.



dt002--After surgical removal of the mounting bracket and some plastic surgery, this is what it looks like.



dt003--This is a scrap 7/8 sucker rod end that will be reformed into a hardy shank for the dishing tool. The square section is 15/16 the same size as my hardy hole.

dt004--This is a piece of 3/4 inch flat that I put a 15/16 square hole in the center to use for sizing hardy shanks and also for forming a square shoulder under the neck which keeps it from wedging in the hardy hole. My hardy hole does not have crisp corners anymore and if I use the hardy hole to form the neck it will only go in one way.



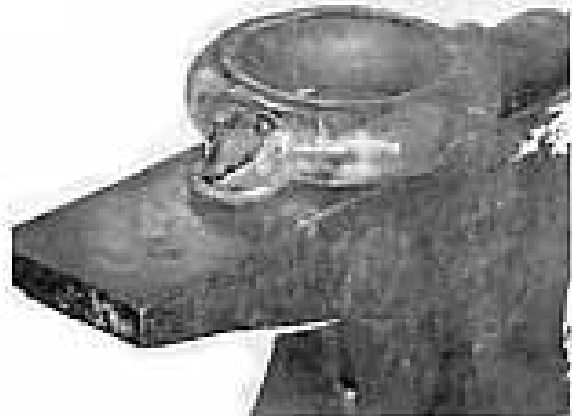
dt005--Using a 3/4 inch fuller and a 5 lb hand hammer to work the shoulder down square.

dt006-- What the shank looks like after sizing and shouldering.



dt007--The shank and ring grafted together.

dt008--What it looks like on the anvil ready to use.





Artist-Blacksmith's Association of North America, Inc.
 PO Box 816
 Farmington, GA 30638 USA
 706-310- 1030 te l _ 706- 769 -7147 fax
 abana@abana.org * ww w.abana.org

ABANA Affiliate Liaison Letter

February, 2005

Hello! It has come to my attention and I posted the information to the Affiliate Rep e-mail list that almost the entire collection of blacksmith made items of the James C. Sorber collection will go to auction on Friday, May 13, 2005. This includes the 700+ items shown in the book, Colonial Wrought Iron: The Sorber Collection by Don Plummer, as well as an additional 1,000- 1,500 items. Preview hours for the week prior to the sale will be posted on the website. An illustrated catalogue will also be .available via the website approximately 3-4 weeks prior to the sale

The auction will be held at Pook & Pook Auctioneers in Downingtown, Pennsylvania. Details, when available may be viewed at the Pook & Pook auction site: www.pookandpook.com

One of the Affiliate Reps, Daniel Crowther of Capital District Blacksmiths wrote to the list and suggested that ABANA and the Metal Museum in Memphis should get together and try to save the collection from being broken up. Well unfortunately our combined pockets are not that deep, however, with the volunteer effort of Brian Gilbert, LeeAnn Mitchell, Adam Hawk, Clare Yellin, Jim Wallace and others, we came up with a plan. Please visit <http://www.metalmuseum.org/donations.htm>

The idea is to spread the word, get people to visit this site and make a donation of any size. The money collected will be used to buy select pieces from the auction of the Sorber collection. These pieces will become part of the permanent collection at the Metal Museum in Memphis, Tennessee. It is too bad that the collection is being broken up. This is one way to help save a small part of it for posterity.

This project is a great example of why we have an Affiliate Rep Program in the first place. It also shows you why it is important for your group to have an Affiliate Rep and why it is important for your Rep to subscribe to the e-mail list. This letter only goes out every other month. Time is short for collecting money for the auction purchases. Please spread the word to your affiliate members. Thanks for your consideration!

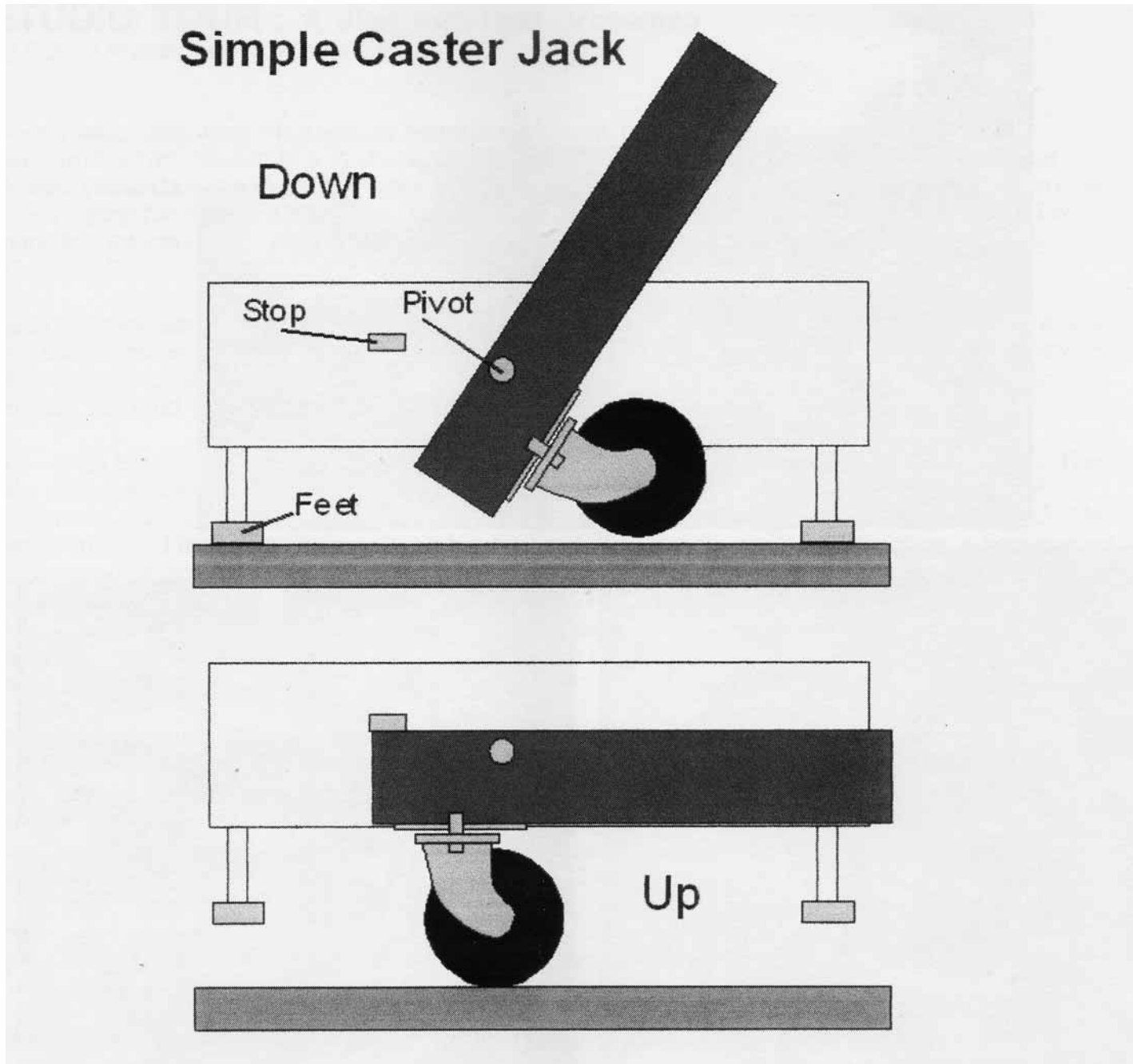


Dave Mudge

Affiliate Liaison
 Member Services Division
 Chairman Internet Committee
 985.735.0049 / davemudge@abana.org



SHOP TIP Reproduced from the Guild of metalsmiths December 2004



Simple Caster Jack

by Gene Olson, Guild Member

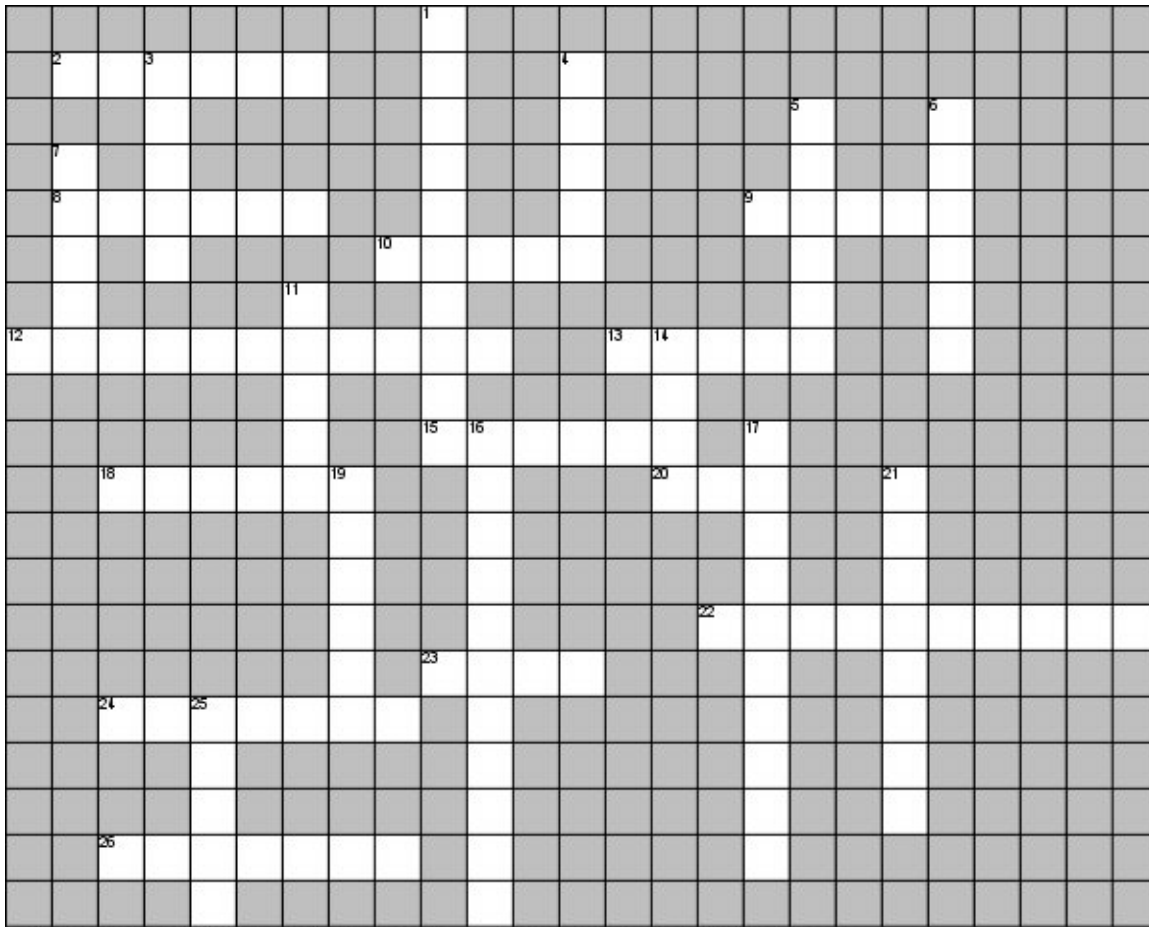
Often we have tools that have to move when they are not in use, but which need to be stable when we are using them. Myself, I like to put bars across the bottom with 3 1/2" legs and move stuff with my pallet jack, which works slick if you have a pallet jack.

For those who don't, here is a low tech solution, a simple cam over, gravity lock on a swivel caster.

You would use several of these, or use two fixed casters on the opposite side of the machine always down and then the two feet shown with the retractable steering caster on this side.

Blacksmith Puzzle

A new feature Ed Harper is going to put together a blacksmith based cross word puzzle. Let me know if you enjoy this feature and want to keep it.



Created with EclipseCrossword — www.eclipsecrossword.com

Across

2. To render a piece of steel to its hardest condition
8. Reduce to softest state
9. A hearth or furnace used to heat iron
10. A pin that is headed on both ends to hold pieces of metal together
12. A purified form of iron that is easily shaped, forged or welded
13. To form metal by driving it into a negative cavity of the desired shape
15. A form where the metal has been formed into a spiral shape
18. A hammer with a wood head
20. A tool with which, on which or between which metal is formed
22. Square hole in anvil
23. Coal after being purified by heat
24. A angle faced tool used for creating a shoulder
26. A cast ingot that can be refined by forging

Down

1. Blacksmith-Coal
3. The handles of tongs
4. To hammer metal back into itself so as to thicken it
5. Copper and tin
6. Cool hot steel in a liquid
7. Draw metal down in cross section or to a point
11. Shaped block used as an anvil for sheet metal work
14. The union of two piece of iron into one
16. The process of hammering metal into shape without the use of heat
17. Greek god of smithing and craftsmanship
19. Fire pot
21. Tool to check thicknesses and diameters
25. Two piece hinged tools used to hold hot metal

Answer Key On the Coal page

BAM Meeting

June 3rd and 4th, 2005

(Map and directions on back cover)

Friday - June 3rd

5:00 pm - 10:00 pm

BAM family campers arrive.

6:00 pm - 7:00 pm

Dinner, BAM family - be our guest Friday evening. Foil Dinners. We need to know the number coming for dinner because of food requirements. Call Dale Gilman at 660-848-2396 on Tuesday, Wednesday or Thursday evenings 7:00 - 10:00 pm prior to our Friday camp out for dinner reservations.

Dinner location - Pavilion. Want to help? If you are coming for dinner you could bring a dish. Last name A-J bring a salad, K-S bring a dessert, T - Z bring baked beans.

7:30 pm-8:30 pm

Baseball Game. Everyone plays ages 5 and older. Slow pitch baseball.

Location - Sports field, equipment provided.

9:00 pm

Two family movies - "musical" (kids chose) or "how to build a flintlock". Be our guest.

Refreshments - Popcorn and Lemonade. Location - Pavilion and dining room

11:00 pm

Days End - Please turn off radios, etc and allow others to have a good night sleep.

Note:

- We ask that no one cook outside in the camping area. If you smoke, please do so at the pavilion or in your vehicle. The fire dept is 30 - 45 minutes away and our equipment won't reach to the trailer and tent camping area. Safety first please.
- BBQ grills for your use are available at the pavilion. Bring your own charcoal.
- We will have staff on location. They are there to answer questions, support activities and prepare meals.
- Dinner bell will announce the beginning of prepared meals.
- Date change: BAM meeting is Saturday June 4th and not Sunday, June 5th.

Saturday, June 4

7:00 am - 8:00 am

Breakfast - toast, eggs benedict, breakfast food, coffee, milk. BAM will be accepting donations or prepare your own meal.

Location - Dinning room

8:00 am - 9:00 am

Fishing Derby - prizes for longest fish and most fish caught. Bring your own equipment, fishing license and bait. You catch um, you clean um (or release um). Please clean up cutting tables after you use them. Please bring your own cooler for refrigerated storage.

Location - lake's edge

8:00 am - 10:00 am

Midway - Staff will be putting up a midway Saturday morning. As the stations are completed you are invited to test your frontier skills.

Location - Front of Bunkhouse. Foxfire momentos to winners of each game.

10:00 - 12:00

A. It's BAM time -

Trade items for the meeting will be flowers

Location - Blacksmith shop

Demonstrator: Ken Jansen

OR.....

10:00 - 11:30

B. Those not interested in smithy stuff can make dragons. It's fun and you should get a completed dragon by 11:30. Maximum number of participants is 20.

Location - Dining room.

OR.....

10:00 - 12:00

C. Making airplanes that fly. Maximum number of participants is 24.

Location - Pavilion

12:00 - 12:45

Lunch - Subway sandwiches and chips, milk, coffee, soda. A BAM contribution would be appreciated. Please come and support your club (or prepare your own meal).

Location - dining room

12:45 - 3:00

Back to BAM program and regular business meeting.

2:30-3:30

Head for home. Thanks for coming.

Buy, Sell, Trade

Individual Classified ads

Treadle Hammer Old style Clay Spencer type Located in Washington, Mo. \$600 Pat McCarty 636-239-3814

Treadle Hammer Old Clay Spencer style Located in Clayton, Mo. \$600 or best offer Mary Giles 314-725-5453.

Commercial / Resource ads

Services:

Custom spinning in copper, brass, pewter, and steel. Contact Ken & Kathy Markley, 7651 Cabin Creek Lane, Sparta, Ill. 62286. Phone: (618) 443-5284 Fax: (618) 443-5284

Ray Chaffin has a new computer operated **plasma cutting** system that can cut anything out of metal. Mail, call or e-mail your design for a price quote. Also hardwood blocks 2-2 1/2" x 12-14" are \$5 each in curly maple, straight maple, English walnut, birch laminated in brown and white and blue and white. Ray Chaffin, (660) 438-6720 or Ray's Welding, RR 3, Box 279, Warsaw, MO 65355.

Little Giant-- We can do repairs on any or all components of your Little Giant front assembly. Contact H."Sid" Suedemeier 420 4th corso, Nebraska City, Ne. 68410 (402) 873-6603

BAM members, I have a **CNC plasma cutting** system in my shop in Columbia and will offer my services to BAM members at a 10 percent discount. From art to parts I do it all. Now offering: 12" x 18" BAM logo signs plasma cut from 1/8" A36 steel plate, \$25 BAM members, \$35 non-members. Call (573) 474-8749 and ask for William Irvin.

Treadle Hammer - Complete or Plans, and Beverly Shear Sharpening

Inline (roller blade) treadle hammer for sale. \$1200, loaded at my shop in Murphy. Treadle hammer plans: \$9.00, includes postage. Beverly shear blades sharpened, \$35 plus shipping, bring the shear to the Folk School or ship the blades to me.

Clay Spencer, 934 Partridge Ln, Murphy, NC 28906 828-837-0708 email: clayms@2brmemc.net

Information / Education

New email/web site for Tom Clark and the Blacksmith School

Tom: tclark@ozarkschool.com
School: www.ozarkschool.com

Tong Making Class-Weekend Course

4 people per class - \$125 per person

Contact: Charles Comstock Rt.1 Box 20, Deerfield, Mo. 64741 (417) 927-3499

Subscribe to Jerry Hoffmann's **Blacksmith's Journal**, a monthly publication for blacksmiths. Call 1-800-944-6134 for more information.

George Dixon edits a blacksmithing publication called "**The Traditional Metalsmith**". For \$28 you will get four issues of how-to information. Contact him at 1229 Bee Tree Lake Road, Swannanoa, NC 28778.

Irony is a publication by BAM member Stephen McGehee. It's full of metalworking projects as well as his own brand of wit. Subscriptions are \$35 a year or \$65 for 2 years. Send checks to P.O. Box 925, Corydon, IN 47112.

Products

Heavy duty frying pan blanks: Steel, approximately 9 inch in diameter with 2 inch sides. 12 gauge (2.5 lb.) or 14 gauge (1.75 lb.) thickness. Available with or without two 3/16 inch holes for handles. Now tumbled clean. 1-4 \$9 each; 5-9 \$8 each; 10 or more \$7 each. Shipping \$4 plus \$.50 for each pan. Contact: Bob Tuftee, 3855 Aspen Hills Dr., Bettendorf, IA 52722; bobforge@hotmail.com; (563) 332-4800.

Tom Clark has expanded his line of hand forged Hofi style hammers to include a nice rounding hammer and punches, drifts, tongs etc. He's also importing a new line of air hammer, the Sayha from Turkey and just got a shipment of punches, shears, belt grinders and gas forges. For more info on the tools contact him at Phone (573) 438-4725. Fax (573) 438-8483.

L Brand Forge **coke** now packaged in 50 pound bags, 1,000 pound bulk sacks on pallets and 2,000 pound bulk sacks on pallets. Send your zip code for a quote on price including delivery. 1-800-441-0616 or LBrandForgeCoke@aol.com.

Bells Novelty Casting is a foundry in Anniston, Alabama manufacturing blacksmiths' tools. We are currently looking for dealers to market our products. We have anvils of all sizes, swage blocks, hardies and drift pins. Call 1-877-FARMBEL. Web site www.bellsandmoe.com.

Kayne and Son Custom Hardware, 100 Daniel Ridge Road, Candler, NC 28715. (828) 667-8868 fax (828) 665-8303, email: kaynehdwe@ioa.com, web site: www.kayneandson.com. Offering Big Blue 100 ram air hammers, Peddinghaus 2 horn anvils, Offcenter tongs and swages, etc, hammers, tongs, the Blu Crusher rolling mill and Forgemaster gas forges. We ship and accept Visa and Mastercard.

Buy, Sell, Trade, Continued

Coke for sale, \$10 per hundred pounds loose or \$9 per bag sacked. Bags hold 60-70 pounds. Call Japheth Howard for more info, (660) 777-3508.

SOFA fire pots are once again available. For information contact Bob Cruishank, 1495 W. Possum Rd., Springfield, OH. 45506 Phone: (937) 323-1300 or www.creativeironforge.com or www.sofablacksmiths.com

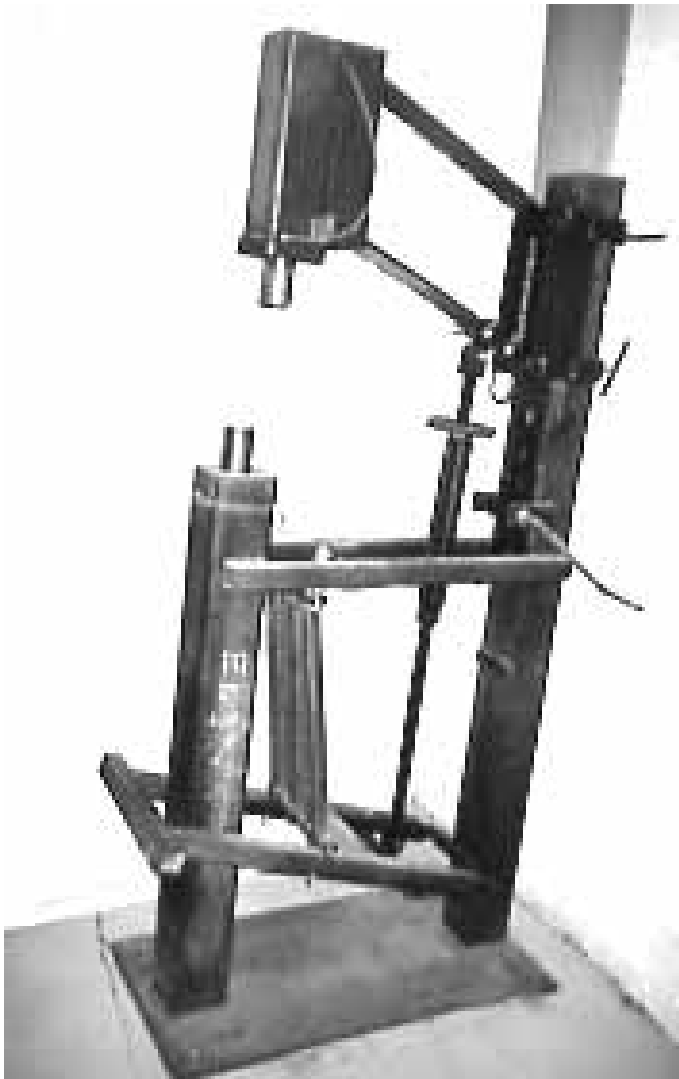
Wanted:

Articles for the BAM Newsletter. Email, or snail mail to Bob Ehrenberger.

Demonstrator List Forming

Fred Wisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc. Contact Fred to get on the list:

Mary Giles' Treadle Hammer



417-589-2497 email: jweisenb@lilion.org

Help Wanted:

Artist-Blacksmith Position Available

Established artistic metalworking business specializing in high-end custom and production ironwork is seeking apprentice and journeyman blacksmiths.

Only serious, self-motivated, high-energy people need apply. Send resume and letter of interest to: Jeff Fetty Designs, Inc. 1041 Lion Fork, Spencer, WV 25276. Or email jfetty@depotltd.com No phone calls please. Visit us on the web at _www.jefffettyironwork.com_ (file://www.jefffettyironwork.com/).

Editor's Note:

I pulled some of these ads from past issues if you want to change their wording or the category they are listed under contact me.

Pat McCarty's Treadle Hammer



Need Coal ?

Check on Availability

Coal Captain: Bob Alexander



1. Bob Alexander (636) 586-6938
14009 Hardin Rd,
DeSoto, MO. 63020

4. Jerry Rehagen, (573) 744-5454
Rt1 Box 97,
Freeburg, Mo. 65035

2. Ken Jansen, (636) 366-4353
2257 Charter Rd.,
Moscow Mill, Mo. 63362

5. James Rumbo, (816) 625-8675
7223 Hardsaw,
Oak Grove, Mo. 64075

3. Doug Clemons, (660) 595-2257
RR1 Box 124,
Malta Bend, Mo. 65339

6. Jeff Willard, (417) 742-4569
P.O. Box 416,
Willard, Mo. 65781

Price \$8.00 per bag Coal keepers earn \$1.00 a bag

Across

Blacksmith puzzle answer key

2. HARDEN-8. ANNEAL9. FORGE-10. RIVET12. WROUGHTIRON-13. SWAGE-15. SCROLL-18. MALLETT-20. DIE-
22. HARDIEHOLE-23. COKE-24. BUTCHER-26. PIGIRON-

Down

1. BITUMINOUS-3. REINS-4. UPSET-5. BRONZE6. QUENCH-7. TAPER-11. STAKE-14. WELD-16. COLDWORKING-
17. HEPHAESTOS-19. TUYERE21. CALIPERS-25. TONGS-

Upcoming Events

April 29-May 1 14th Annual Ozark Conference at Warrenton, Mo

Demonstrators--Bill Epps--Alice James--Joe Szilaski (Knifemaker)

June 3rd, 4th BAM Meeting at Foxfire camp near Boonsburo, Mo. Host: Dale Gilman,

Trade Item: Flowers

Dale is planning a big weekend.

July 15th-17th Upper Midwest Regional Blacksmith Conference at Pontiac, Illinois

Demonstrators--Brent Baily--Jack Brubaker--Jerry Darnell

Contact Tricia Springer, (309)-394-2256 (home) or (309)-208-0952 (cell)

July 30th BAM Meeting at Ham's Prairie, Mo. Host: Ned & Esther Digh

Trade Item : Bell, Lunch Provided

September 10th BAM Meeting at Shelbyville, Mo. Host: Bob & Jan Ehrenberger

Trade Item : Measuring device (dividers, calipers,traveler), Lunch provided

November ?? BAM Meeting at Bass Pro shop in Nixa,Mo. Host: Kirk Sullens

Around the Anvil BAM has it's very own E-Mail news group. If you would like to participate send an E-Mail to Ed Harper at aramed@grm.net and he can get you signed up.

New Members

If you know or live near one of these new members. Give them a call and invite them over to your shop. Most beginners don't have the equipment or experience to get going. You have both, please share. Sometimes they just need to see how things are set up to get them started.

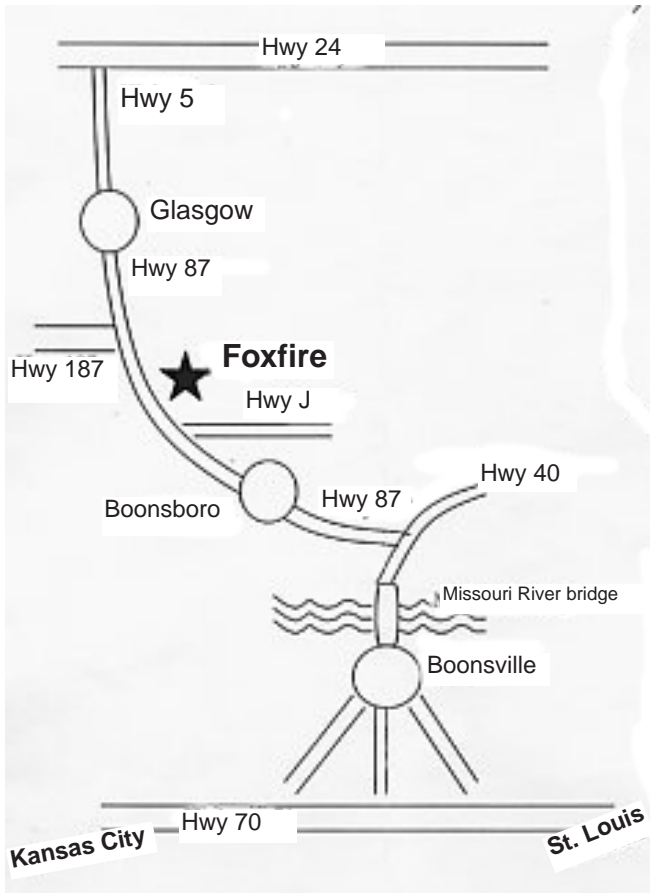
Correction

Dan Wedemeyer 2800 S. Hwy 185,Sullivan, MO 63080 dwedem99@fidnet.com 573-468-6072

New

Morning Star Steel Trading Co.,	504 Clevenger, Carthage,MO,64836,	raysaper@sbcglobal.net ,	417-358-4491
Filer,Les,Old Farm Mac Co,	2895 Mt. Sterling, Bland,MO,65014,		573-943-6714
Washeck,Tom,	955 Cleveland, Kirkwood,MO,63122,		314-822-3556
Green,Mark,	7129 Summit, Shawnee,KS,66216-3719,	mgreen@everestkc.net ,	913-962-9066
Misiewicz,Todd,	14712 W. 83rd Place, Lenexa,KS,66215-4264,	dragonshope@everestkc.net ,	913-541-1851
Plumer,Mark,	200 N. Washington Street, Oregon,MO,64473,		660-446-2447
Matchen,Chuck,	38374 9th Street, Spring Grove,IL,60081,	chuckmatch@aol.com ,	847-587-6525
Wayman,Don,	2711 Hoots Chapel Road, Odin,IL,62870,	dwayman@accessus.net ,	618-775-8565
Boeckstiegel,Barry,	2033 Foxboro, Festus,MO,63028,		636-937-6866
Norris,Brian,	38590 W. 18th Street, Edgerton,KS,66021,		913-882-6746
Ott,Steve,	5537 County Lane 183, Joplin,MO,64801,	kott@cox-internet.com ,	417-673-2025
Cohen,Cliff,	12229 Fairway Road, Leawood,KS,66209,	ccohen@cupslaw@cmpslaw.com ,	913-491-4050
Benton,Bill,	RR 3 Box 987-J, Salem,MO,65560,	wbenton@salemnet.com ,	573-729-2615
Reynolds,Jeffrey,	809 Choctaw, Independence,MO,64056,		816-796-5600
Holmes,Michael,	HC 3 Box 33, Eminence,MO,65466,		573-226-5807
Sparrman,Bjorn,	5000 Chouteau, Shawnee,KS,66226,	sparkids@everestkc.net ,	913-422-3825
Eddy,Pam,	HCR 3 Box 19, Eminence,MO,65466,		573-226-3222

Next Meeting: June 4 near Boonsburo, Mo



Note:

There are three modern bathrooms available (no tubs or showers).
 Tailgaters are welcome, bring your sale items. Because of liability/safety concerns, boating and swimming will not be available this year. Foxfire is a Christian family, drug and alcohol free organization. They ask that all guests respect the rules when visiting their facility.
 Be a good scout. Please leave the area as clean as you found it.

Summary:

Location: Foxfire Christian Camp
 Host: Dale Gilman 660-848-2396
 Trade item: Flower
 Demonstrator: Ken Jansen

Directions:

10 miles North of Boonsville on Highway 87
 10 miles South of Glasgow on Highway 87
 200 yards South of Highway 187
 1 mile North of Boonsburo / Highway J

BAM

2212 Aileswick Dr.,
 St. Louis, MO 63129

Please send changes to Bruce Herzog, 2212 Aileswick Dr., St. Louis, MO 63129 or e-mail to bjherzog@msn.com