

BAM

July - August 2006



Don Nichols
Demonstrating a boiling water patina on copper

www.bamsite.org

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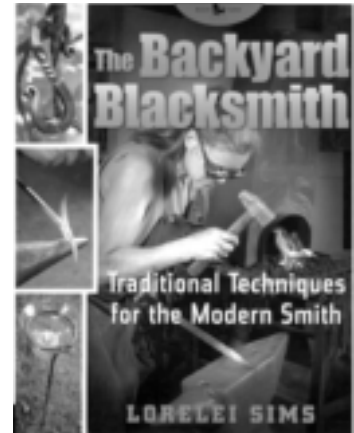
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**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 23 No. 4
JULY-AUGUST

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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 \$25/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 Shelbysville, Mo 63469;(573)-633-2010 or send e-mail 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.

JULY-AUGUST 2006

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 \$25, 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: _____
Phone: () _____ Zip: _____

New Member Renewing Member

Includes a Subscription to the Anvil's Ring and The Hammers' Blow magazines

- Regular Member\$55 yr.
- Senior Citizen (Age 65+).....\$50 yr.
- Full time student\$45 yr.
- Overseas airmail\$80 yr.
- Overseas surface mail\$65 yr.
- Contributory.....\$100 yr.
- Public library.....\$45 yr.

See reverse

From the Editor

By Bob Ehrenberger

The early craft shows and reenactments were not as well attended as usual. I guess the price of gas has some people staying close to home. I hope that things pick up this fall. We took the lead from some of the other crafters and have taken most of July off. The shows aren't usually all that good and I really need to catch up on the maintenance around here. This is the first time since we moved to Shelbyville that I have most of my fire wood cut and split in the summer.

With the summer heat on us, we have gotten out the ice shaver again. A lemonade slushy is a great treat, but is no substitute for drinking enough water while you are working. Remember drink before you are thirsty and stay hydrated.

I really wish that I could have made it to Ned's meeting to watch Clay Spencer operate the tire hammer. It was well attended and everyone that I talked to said that Clay put on a good demonstration.

The tire hammer workshop that was scheduled for Labor day weekend has been cancelled. There was a conflict scheduling Lou's shop and another location big enough could not be located. Bruce has already sent refund checks to those that were signed up. We hope to get it rescheduled. We think that enough BAM members have gone through the process that we may be able to do it without Clay present. Rumor has it that Clay has the plans down on paper now, so that should help us fly it solo.

The reports from the ABANA conference are good. Kirk said that BAM's new sign holder took the blue ribbon in the sign judging.

The submission deadline for the next newsletter is September 18 which is the Monday after the next meeting. Because there are only 7 weeks between the September and November meetings I have to get the newsletter out the next week.

Letter to the editor

Hello Bob,

Here is my Postal Box that has stood the test (so far). Being initiated 3 times with a busted mail box led to this. While talking to a neighbor, he told me of tying a fence post to the headache rack on a truck and bashing mail boxes. I slowly and carefully explained that a deer slug in his radiator was about the same value. Haven't noticed any more damage in neighborhood since he passed away, so he may have been the one.

Due to not having access to a heavy

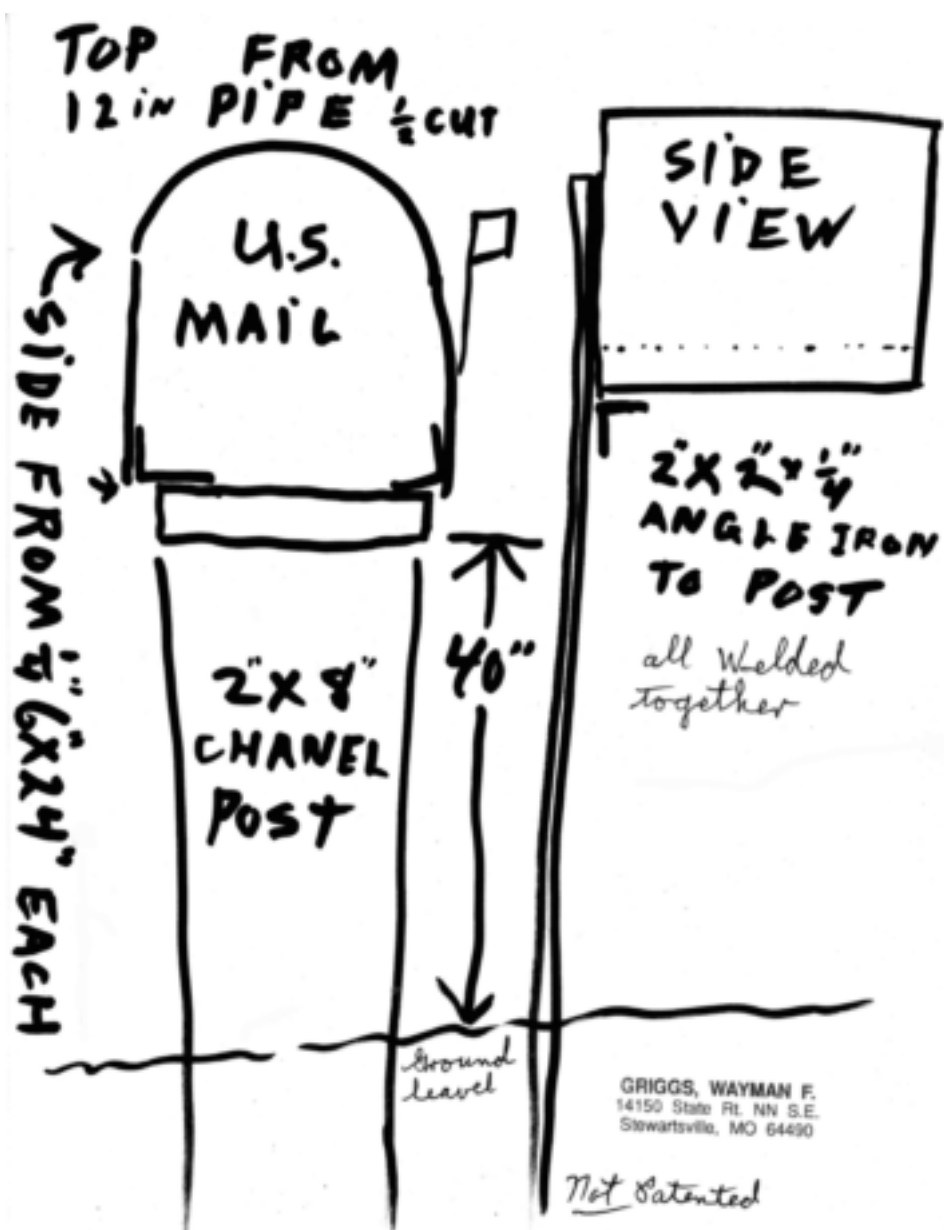
roller, I cut a 12 inch 1/4" thick pipe to 2 equal pieces. Got standard plate 1/4" thick x 6" for the sides. Used 2"x2" angle iron to form bottom. This fits "store bought" U.S. Mail Box to make it legal.

No guarantees, but it is still standing and gets approval notice each year from the post office.

Keep up the good work,
Thank You,

W. F. Griggs

P.S. Two jokers down the road use an 8 foot tall brick chimney to protect their box.



Minutes BAM meeting

6/17/06 By Peggy Williamson

Held in Ham's Prairie, Mo.

A big THANKS to Ned & Esther Digh
The rain held off, it was cloudy most of the day.
There were only about 50 members that showed up.

IRON-IN-THE-HAT

(The number of items were small,)

ITEM	DONATED BY	WON BY
Catalog	Bruce Herzog	John Burcks
Coal forge	Mike Camden	John Huff
Set hammer	John Huff	Norman Kloepfel
Barn shirt	BAM	Barry Boeckstiegel
Coil spring	Barry Boeckstiegel	
Hat	Bam	Ed Harper
Shear	David Hoopes	
Arbor	Fred Arnold	Gary McCullough
Books	Fred Arnold	
Barn newsletters	Cory Brinkmeyer	
Pick heads	David Williams	Bob Combs

TRADE ITEMS (BRANDING IRON [BAM 2006])

Only 3 item showed up

Demo by Clay Spencer on the tire power hammer.
Power hammer workshop date has been changed to
Thanksgiving weekend, more details in newsletter.
(Editor's Note: it has since been canceled)

Nov. 4, 2006 meeting will be held at Matthew Bur-
nett's in Hamilton, MO .

Meetings for 2007 are open and need to be filled,
CONTACT Kirk Sullens for details.

MTS - Intermediate workshop project is a sign holder-
more info in the newsletter.

Date (Aug. 12, 2006) - A cost of \$ 20.00 for the
workshop- CONTACT Don Birdsall for details.

Financial Report- Still looking for a new treasurer
598 members in March
583 members now
210 attended 2006 conf.
We need to find a way to bring in more money from
conference.

If you have any ideas, let the officers know.

State fair report- Can still use more workers or talkers.

Ring project for Abana Conf. 2006

Don Birdsall will be taking over as scholarship chair-
man.

BAM Ozark Conference 2006 report-
Needing someone to be the chairman for the 2008
conf.

Have a chairman for the 2007 conf.

Needing volunteers for both conf.

Also looking for a knifemaker.

CONTACT Larry Hults for details.

Kirk said THANKS for making him our PRESIDENT

Meeting adjourned.

BY Peggy Williamson [new phone number 870-404-
5709

[e-mail- peggy-creations@cox.net]

P.S.

BOOKS AND TAPES NEED TO BE RETURNED
TO THE LIBRARIAN SO THAT OTHERS MAY
USE THEM, AND SO THEY CAN BE PUT INTO
A NEW CHECK-OUT SYSTEM. ALSO THE WEB
SITE LIST CAN BE UP-DATED.



A Word From El Presidente

by Raoul (Kirk Sullens)

Hi all,

For those of you who couldn't attend the ABANA conference in Seattle, you missed a fun time. BAM was still well represented, both among the attendees and the crew. Once again, Pat McCarty and Tom Clark were instrumental in making a successful conference. Thanks, guys. The ring project was not, perhaps, promoted as much as it could have been, and there were only 16 rings. Four of those were from BAMmers, and two of those made it onto the finished grille! The grille sold for \$9800.00 in the auction.

There were retrospectives of Doug Hendrickson's and Russell Jaqua's work in the gallery, showing some incredible skill and imagination, and giving us more ideas of new directions to go. The demonstration area was close together, making it easy to go from demo to demo and try to catch everything. The gallery and the trade area were also right there, and lunch and dinner were catered on site, so we didn't have to leave. Everything sat at the edge of a beautiful lake, filled with sailboats and orcas. Orcas? Yes, Jim Wallace of the Metals Museum gave a harpoon forging demonstration, standing in the lake in water almost hip deep to forge, while vinyl pool-toy orcas floated behind him. I hear they speared the poor, defenseless things when the demo was over. I didn't stay. I couldn't bring myself to witness the carnage.

Our banner stand took the blue ribbon for best of show, thanks to Walt Hull's great design. Thank you to Bass Pro employees Jay Wood, Bobby Hood, Larry Kerr, Josh Cozort, and John Perkins for helping me get it finished, Julie Pappenfort for helping me ship it, and to Kate Dineen for helping me tweak it all pretty. I couldn't have done it alone. The pieces were too big.

We had our July meeting at the Missouri Valley Steam Engine Association's grounds in Booneville, and had a good day. Don Nichols and Kent Harbit gave some very solid demos. Don showed a variety of techniques that haven't been seen in a while, and with the large number of new members in BAM, it was an excellent repose. Kent showed us how to make a giant safety pin.

As soon as I can arrange it, and I hope from now on, I'd like to start having a demo at each meeting of what the trade item will be for the next meeting. Everyone needs to know that they can make the trade item using whatever method works best for them. With so many new members, though, some of them might be more comfortable trying the trade item after seeing one made. I'd like to thank Phil Cox for this idea. It's a good example of how we all make things better for each other. I hope we can also see a little more open forge time in the afternoons, so our more experienced members can work with our newer people to learn new techniques and projects.

The State Fair is coming up, and I hope as many as possible will get with Peggy Williamson, and come in to demo for the fair crowd. It's always a fun crowd, and we really generate a lot of interest.

I'm sure there are things I'm forgetting. I'm afraid there will always be those things. The world is a busy place. Keep forging, and I'll see you at the fair!

El Presidente Raoul
aka Kirk Sullens

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JULY-AUGUST 2006

bamsite.org



Minutes BAM meeting

7/22/06 By Peggy Williamson

Held on the MO Valley Steam Engine Assoc. grounds, exit 111 off I-70.

Hosted by Don & Joyce Nichols.

About 35 to 40 members attended.

Kirk thanked Pat McCarty and Tom Clark for all the work they did to get the ABANA conference organized. Of the 16 rings submitted 4 were from BAM and 2 of those made it into the screen.

Bruce was absent because of the storm in St. Louis taking out his power. So no treasurer's report.

The tire hammer workshop has been cancelled. We will try to get it rescheduled.

The BAM banner stand got the blue ribbon at the ABANA conference.

Bob Patrick has found a source for coal in Oklahoma. Nearly as good quality as we have been getting and a little cheaper. Contact Kirk for information.

V.J. McCracken had surgery last week.

Rowen Pdraig Murray was born May 12 and weighed 9 lbs, 5 oz. to John & Lisa Murray. He is said to bear a VERY strong resemblance to his Pa.

MTS workshop is scheduled for August 12. They will building a sign holder. This is a chance to take your blacksmithing skills to the next level. Cost is \$20. Contact Don Birdsall for more information.

Someone asked if there was any interest in having a treadle hammer workshop. Contact Kirk if you would like to build one of these useful machines. If this is to happen, we really need to have a point man and organizer for it.

We are going to publish the BAM roster in the September news letter same as last year. So make sure that your information is right, get any updates to Bruce Herzog. We voted to make it a pull out, like

last time.

BAM still needs a new treasurer. Bruce IS going to resign at the first of the year, so this is important. The MO Valley Steam Engine Assoc. is planning on building a blacksmith shop on their grounds. They would like BAM members to be involved in both the planning of the shop and to demonstrate at their events. They had asked BAM to build a shop there a few years ago and BAM didn't want to dedicate the funds to it. This time they are putting up the funds but would like our expertise.

Someone suggested visiting a blacksmith web site. iforgeiron.com.

Meeting adjourned.

Trade Items were made by:

Pat McCarty, Bob Ehrenberger, Ken Jansen, Don Nichols, Dave Smith, Kenny Jamison, and Don Anders.

Items for the **Iron In The Hat** were donated by:

Jim Thomas, David Williams, Clay Spencer, Fred Arnold, Don Nichols, Don Birdsall, Kirk Sullens, Joyce Nichols.



Checking out the trade items



Group watching the demo

The June BAM Meeting with Demonstrator Clay Spencer

By Ned & Esther Digh

The June BAM meeting had around 80 people in attendance and Clay Spencer kept the blacksmith observers tied to his demonstration until late afternoon. Ned and Esther Digh hosted the meeting at their farm and shop in Ham's Prairie, near Fulton. Five camping trailers dotted the yard and some members stayed around on Sunday to talk and brainstorm with Clay. Julie Lander, director of the local food kitchen, was present to receive the wagon full of canned food donated by BAM members. About 150 pounds of canned goods and \$100 in cash was donated to SERVE, Inc for the local food kitchen.

Clay Spencer brought a couple of buckets full of tools to use with the spare tire power hammer. Throughout the morning and afternoon, he pounded on hot metal with the power hammer to demonstrate it's versatility and efficiency. Clay made several items, which will be put in future Iron in the Hat drawings.



From the feedback comments, it was obvious that more BAM members want to own a spare tire power hammer as well as a copy of Clay's tools. Sev-

eral members are working on arranging the next power hammer workshop, watch the BAM Newsletter and the BAM website (www.bamsite.org). If you have not signed up for the Around_the_Anvil e-mail messages, contact Ed Harper (aramed@qrm.net). With today's technology, this is the fastest way to keep up with BAM activities.

The ladies at the meeting viewed a group of Esther's quilts on display. Some of the items displayed were family quilts made of fabrics from the 1900's through present times. Esther gave a presentation on using strips of fabric to make rugs, purses, table runners, and decorated sweatshirts. There was also an opportunity to practice Locker Hooking, which is a technique for making rugs.

The aspiration to have a music jam did not materialize, as our most talented BAM musicians did not attend the meeting. Esther and Ed Harper did do a dulcimer duo on Saturday night, but it was so late, only Ned and Mara Harper were the observers.

Jackie Spencer, Clay's wife, came to the meeting, but she was nursing a sprained ankle, which limited her mobility. Jackie is an artist in her own right and serves as the Resident Artist of Enameling, Hot/Warm Glass at John C. Campbell Folkschool. Jackie is Esther's mentor in learning the art of enameling. The following is Ned Notes: When Esther became Jackie's student, I lost part of my shop to the creation of an enameling studio. Note that I have a shop and Esther has a studio.



Some of the pieces Clay made in his demo.

CLAY SPENCER DEMONSTRATION

17 June 2006

Blacksmiths Association of Missouri (BAM)

By Bob Stormer

Clay Spencer was the guest demonstrator at the June 2006 BAM meeting hosted by Ned and Esther Digh in Hams Prairie, MO. Most of Clay's demonstration involved the use of the Spare Tire Hammer, originally "invented" by Ray Clontz, and the various tools he made to efficiently use the hammer. Clay also spoke briefly about the hammer construction, installation, and maintenance.

Hammer Specifics –

The hammer weighs about 700 lbs. and has a 40 lb. ram, about 55 lbs. including the dies.

The little giant spring should be compressed from its normal length of 6 inches to 5.5 inches when installed on a new hammer. Slight adjustments to tighten it can be made as the hammer wears.

The ram shims are made of Ultra High Molecular Weight (UHMW) polyethylene. Clay recommends use of Teflon Spray Lubricant to lubricate the ram before AND during use. PTFE (Slick 50) is also good.

The tire pressure is not critical and the hammer will operate with a pressure anywhere from 0 to 60 psi. Clay prefers the higher pressure because it does improve control a little bit.

The dies are made of 4140 steel and are hardened to 49 – 51 RC. Both upper and lower dies mounted on this hammer were flat.

If your shop floor is concrete the hammer should be bolted to the floor with plywood and/or a rubber mat between the concrete and the hammer base. If you have a dirt floor a 4X4 or 6X6 base should be put under the hammer and buried in the dirt.

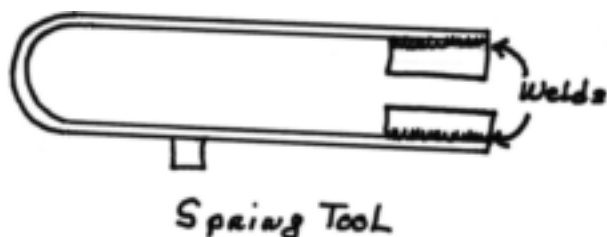
Tool Construction and usage –

Clay has made lots of spring tools. To facilitate their hands free use he fabricated a tool holder that was mounted on the hammer's anvil. The next version of this tool holder will move the square tubing socket closer to the anvil. (See picture at right.) The spring tools all have square stock welded to the spring that fits in the square tubing socket and centers the tool between the upper and lower dies.



Some of Clay's spring tools also had flanges on the lower part that wrapped around the lower dies to keep the tool from moving forward or backward.

When making spring tools it is important to weld the dies on the tool the entire length of the dies, rather than just a butt weld to the end of the spring. This keeps



the dies from flexing and breaking off.

A lot of Clay's tools were made of W-1 tool steel. Cutoff tools were made of H-13.

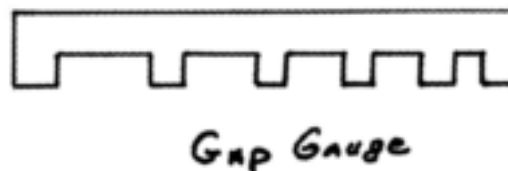
He uses mild steel for a lot of his stamping type dies such as mouse and horse head dies.



Clay showed us a spring tool with a built-in adjustable guide. This particular one was on a tool that had grooving dies, but could be used on any set of dies where you might want to maintain a set dimension from the edge of your material. (See picture above)

Random Thoughts –

When making a gap gauge make each slot a little bigger than the nominal size. This will allow you to use the gauge on hot material that will result in the proper size the material cools.



Fullering pipe seems to work better at black heat than at red heat. There's less chance of deforming the pipe.

When working with pipe always be mindful of the potential for steam to build up in the pipe and come out the end toward you under lot pressure.

If you use stock that's a little too big for a tenon jig, you'll end up with a flange on each side of the stock. If you then twist this, you'll end up with neat looking helix type spiral that Francis Whitaker called the "Fort Townsend Twist". (See picture below)



Some of the tools Clay brought

BAM meeting at the Missouri Valley Steam Engine Association Grounds

By Bob Ehrenberger

There was a good crowd on hand for this get together. I thought I did well, getting there by 8:30, but I was one of the last to arrive. The weather had broken, after being in the upper 90's during the week, it was pleasantly in the lower 80's. In addition to having some pretty well equipped tail gates, there were several steam engines on the grounds for the guys to look over. (For those interested in such things, aren't we all?)

Don Nichols, who was hosting the meeting got the demonstrations started by making a flower from a piece of 1/4" flat stock 2" square.

He then made a flower from a piece of 1/4" flat cut into a 2" circle. Don just happened to have a good supply of these circles for sale at a real good price.

Don then demonstrated a pineapple twist on a piece of 5/8" sq. To further decorate the twist he showed how to make a faceted ball on the end.

Don encouraged us to experiment with different decorative twists just to see how they would come out. He did a pineapple twist on a piece of 1/2"x1" flat to show that it made an interesting handle as well.

He continued the experiments by taking a piece of acme thread squaring it up and twisting it. He repeated this twisting it the opposite direction the second time. Both experiments gave interesting but different results. It looked to me like a miniature version of what they call a hand grenade twist, where you make several shallow cuts to divide a square bar into a bunch of cubes before twisting.

He then did the same thing on a piece of ALL THREAD. The results to this resembled a rapid tap to me. In order to use this as a handle you needed to knock the sharp edges off or it would cut your hand up.

I mentioned that I sometimes do a variation on the pineapple twist where you don't cut the bar, just twist it square it up and untwist. Don had never tried this but said he would give it a go.

Kent Harbit gave a demonstration on making a giant safety pin. He added a twist to the pin by making a leaf on the part used to make the wrap. The directions on making a giant safety pin can be found in the Jan/Feb 05 BAM newsletter.

Don shared an interesting surface treatment for copper. After making your item, heat it to a dull red and drop into a pan of boiling water. It gave the copper a purple color which was pretty neat. This finish is also supposed to be pretty durable.

Don finished up the demonstrations by making a half penny scroll.

We then broke for lunch followed by a business meeting.

After the business meeting, the conference committee had a meeting, while the rest of just hung around and talked.

Nice day, good meeting. I have a conflict with the next meeting, so have fun without me at Foxfire camp and I'll see all of you in November.

Don Nichols Demonstration by Bob Ehrenberger Photos by Bob Stormer

Dogwood flower

Start with a piece of steel 2"x2"x1/4"

Fuller in on the sides.



This is what it looks like after the fullering

Next, thin out each of the petals with a rounding or ball pein hammer

Make a deep mark on each petal with a ball punch.

Punch or drill a hole in center.

Cup the flower, Don uses an old bearing race but a piece of pipe would work too. Just get the flower hot and sink with a ball pein hammer.

Each of the tips are curled back to give the flower more volume.

Don uses a rivet that has been dimpled with a center pinch to hold the flower in place.

As a final touch Don brushes the flower with a brass brush to give it a gold tone.



Round flower

Don also made a flower from a piece of steel 2" diameter and 1/4" thick.

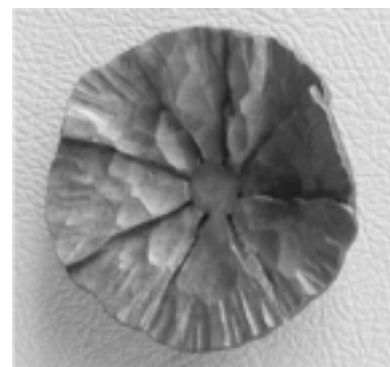
The piece was cut into 8 even sections on the band saw. 2/3 the way to the center.

Before any forging, punch or drill the hole in the center.

Each of the petals is thinned out with a ball pein hammer.

The petals are turned with pliers to look like a pin-wheel

Finally the flower is sunk into the bearing race with a ball pein hammer, the petals lay down with an even overlap on the edges.



Don Nichols Demonstration

by Bob Ehrenberger Photos by Bob Stormer

Pineapple twist

Don showed how to make a pineapple twist handle.

Start with desired size square stock, Don used 5/8".

About 1" from the end make a 4" cut on all 4 sides. A helpful hint here, is to cut on opposite sides to keep the bar straight, 1 & 3 then 2 & 4.

Once all 4 sides are cut about 1/4" deep, take an even heat and twist two full turns.



After twisting, forge back into a square and make 4 new cuts just like the first time.

The final step is to take an even heat and untwist 1/2 turn. The points on the pineapple will just pop out of the bar.

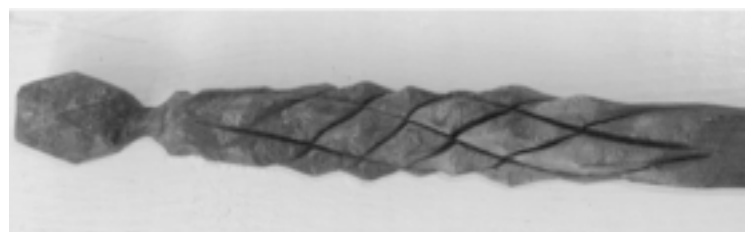


To further decorate this handle, Don put a faceted ball on the end.

He first fullered off a section about 3/4" long.

He then held the bar at a 45 deg. angle and hit straight down on the corner. The hammer makes the top facet while the anvil makes the bottom facet.

After working all 4 corners a couple times each, to make them even, it is done.

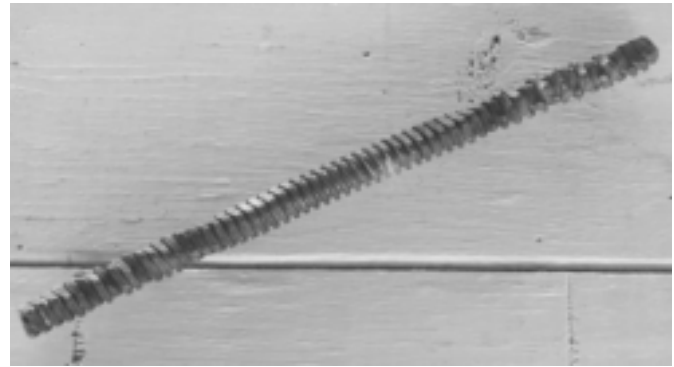


Finished handle with pineapple twist and faceted ball.

Don Nichols Demo

Twisted ACME thread

The bar as squared up and twisted. Notice the difference in the look of the clockwise vs. counter clockwise twist.



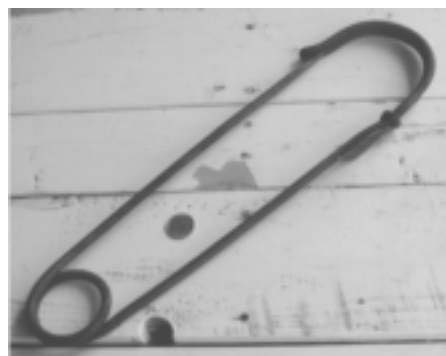
Half-Penny Scroll

Don's final demo was a half-penny scroll.

Kent Harbit Demo

Giant Safety Pin

Kent added a twist to his giant safety pin by starting with a leaf and using the leaf's stem to wrap the hook.



Finished Safety Pin

There is a quarter pictured for scale.

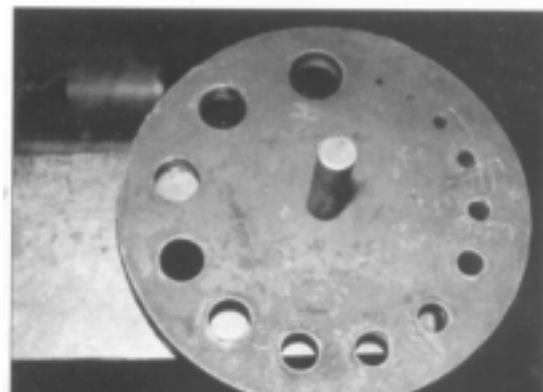


Kent making leaf

14 Tools in One

by John Graham, Weaverville, February 2006

This handy bolster for heading and shouldering applications was created by Mike Hricziscse. The pin fits in the Pritchel hole, and bolster holes center over the Hardy hole.



From the California Blacksmith July/August 2006

First Meeting of the Opinionated Blacksmiths

On Saturday, April Fool's Day, 2006, Preston and Tammy Williams hosted the first annual "Opinionated Blacksmiths Meeting" at Flat Creek Forge. Photos can be seen at Preston's www.flatcreekforge.com

Attended by Dan Files, Melvin Williams, Ed Harper, Chris Owens, Joe Wilkinson, Don Horne and Allen Schroll

Following the formal greeting of attendees, Preston demonstrated the forging of a tomahawk. It took about 15 minutes allowing for opinions from the audience. The remainder of the morning was given over to the audience's attempt to replicate Preston's example. The audience's efforts fueled Preston's opinions of our work and the late morning found ourselves given over to firearms and political expression. Tammy Williams provided an excellent lunch of homemade chilli and we were truly grateful that she allowed us into her home following the morning example of our demeanor. After lunch, Preston demonstrated the forging of an herb cutter and, following the opinions of which way to correctly pronounce "herb", he gave us all a chance to redeem ourselves from the morning debacle. Late afternoon found us again at the shooter's bench expressing our opinion of a good day at Flat Creek Forge. Many thanks to Preston and Tammy for putting up with us.

Dan Files

Editor's Note: I talked to Preston and he said that they want to keep the group small so everyone has a chance to make the demo item. He hopes that similar groups will form around the state and that BAM members will get involved and get active. Bob



Preston Williams Demonstration of a Forged Tomahawk

The body of the tomahawk is forged using 3/8" x 1 1/2" x 8" flat bar stock. The bit of the tomahawk is made from a piece of 1/16", L6 Grade, Bandsaw Blade or other tool steel can be used. Layout of the body starts with punching two marks, 2 1/2 inches from each end on the edge of the flat bar. The 3-inch section in between the marks will be the eye of the tomahawk.

At the punch marks, using a piece of 3/8 round stock, fuller across the width and take down the area between with a cross peen hammer to about 3/16 inch or half the thickness of the stock. Use a flatter to even out the fuller and hammer marks. Pay attention to the fuller marks so that when the blade is folded and the eye is formed, this area will mate to each other nicely.

Bend and form eye over the horn of the anvil. Align ends and edges leaving space for the bit. Make final adjustments to body looking at relationship of eye to center of bit and handle placement. Insert bit, flux with borax, bring tomahawk to welding heat and forge weld bit to body.

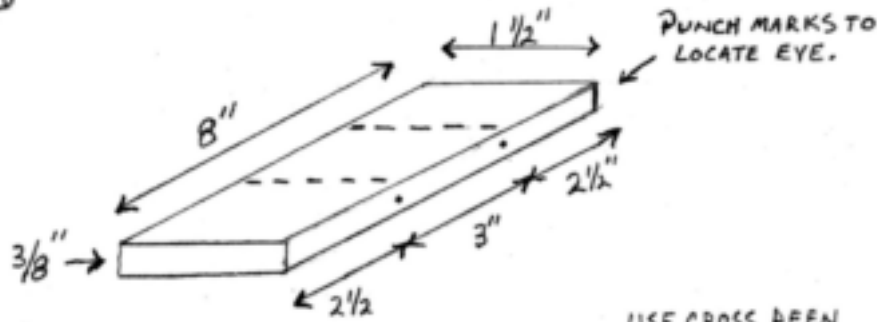
When the bit is forge welded to body, taper blade down evenly and form drop on lower blade edge to give it the characteristic tomahawk look. Use a drift to form and dress the inner and outer parts of the eye. In using the drift, the tomahawk eye is wider at the top than the bottom to allow for a wedge that holds the handle. Remember this as you begin dressing the eye with the drift.

Place tomahawk in vise with the drift in place and align eye to blade using the hammer and leverage supplied by the drift. Take drift out and with drop point up, level out the top of the tomahawk on the anvil. Grind and polish the tomahawk to suit the taste of an opinionated blacksmith.

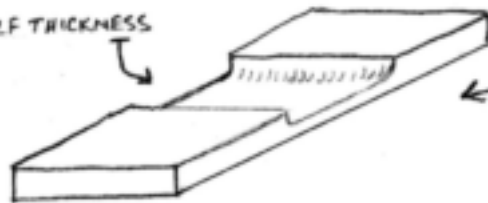
Dan Files



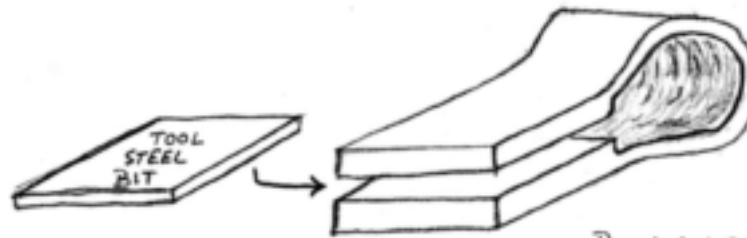
PRESTON WILLIAMS
 TOMAHAWK DEMONSTRATION
 4/1/06



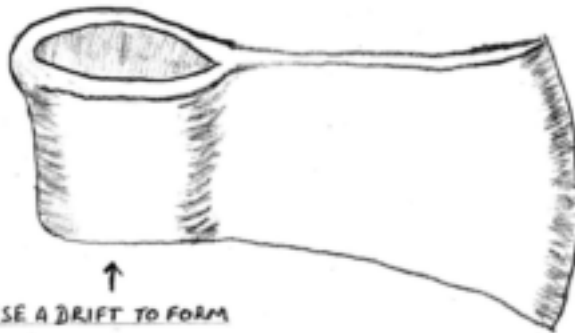
FULLER W/ 3/8" RD STOCK
 AND TAKE DOWN EYE
 TO HALF THICKNESS



USE CROSS PEEN
 HAMMER AND CLEAN
 UP HAMMER MARKS
 WITH A FLATTER.



BEND AND FORM EYE OVER
 HORN. INSERT BIT, FLUX AND
 FORGE WELD TO BODY.



USE A DRIFT TO FORM
 AND DRESS INNER AND
 OUTER PARTS OF EYE.

TAPER BLADE EVENLY
 AND FORM DROP ON BIT.

ALINE BIT AND EYE SO
 HANDLE AND BIT ARE
 PARALLEL WITH ONE ANOTHER

2/F

Spare Tire Power Hammer Maintenance

By Ned Digh

My spare tire power hammer was made at the Choo-Choo Forge Workshop in September 2005 and used for reference during the BAM workshop in November 2005. Clay Spencer recently told me by phone that some of the TN hammers did not have the hammer gussets cut deep enough and the connecting rods were hitting the hammer housing.

I found one of the connecting arms on my hammer to be bent and the other lightly hitting the hammer housing. The impact of the connecting rods had also caused the Allen screws in the wrist pin retainer rings to be loose and likewise the cap screws holding the dies were loose.

To remove the drive assembly without changing the adjustment on the main spring, I put a threaded rod through the two swing arms and lifted off the assembly intact. After straightening the bent rod, reassembly was a snap, except the metal blocks used on the threaded rod had pinched into the threaded rod and had to be pried loose. I should have used angle blocks or shims to make removal of the threaded rod easier.

After removing the retainer clips, shims, and *UHMW bearing blocks. The remedy of making the gusset deeper was straightforward with a side grinder and metal cutting disc. The biggest challenge was keeping the cutting waste from falling down around the hammer bearing blocks. Covering the hammer with damp paper towels and upon completion a thorough wash down with the silicone lubricant worked successfully.

My hammer has not had a lot of use, but it had some side-to-side hammer play. While the retainer clips were off, an additional shim was inserted. Cutting the new shim was not difficult, but not as smooth and easy as Lester Beckman did the originals in Chattanooga.

Next time my hammer needs additional shims; I am going to find an alternative to welding the shim retainer clips back in place. Lonnie Farmer from TN told me that he drilled and tapped the hammer housing (exterior housing, not the hammer case) then used threaded nylon screws to hold the shims and bearing blocks in place.

For convenience I added PVC pipe holders on the back of the main post and a hook to hold the electric cord out of the way. One BAM member told me he had accidentally burned the power cord on his hammer to near calamity.

After doing all the above to my own power hammer, I did an observation check on the BAM hammer, to be auctioned off at the annual conference. I found that the connecting links were slightly hitting the hammer case. The hit was not as extensive as on my TN hammer but it did require cutting the hammer gusset a bit deeper.

Follow up after June 17th BAM meeting;

When Clay Spencer arrived at my shop for the June 17th meeting, the first thing he did was to make adjustments to my power hammer. He tightened the allen head bolts putting tension on the main spring and it was obvious even to my bad hearing that the hammer blows were more even in repetition. He also tightened these allen bolts several times during the demo. This need for tightening brought up an interesting fact: my hammer does not have a lock nut on the allen bolts as the ones made by BAM. The hammers made in Missouri have a lock nut on the allen bolts. The threaded allen bolts are 7/8 inch with 9 threads per inch, not available in the local hardware.

Clay cautioned me to do a better job of keeping the hammer wet with lubricant. He has become disenchanted with the silicone lubricant that all BAM members received with their hammer and used my oil can to keep the hammer lubricated for the demonstration. His first recommendation is to use a teflon lubricant, **not silicone**, and if teflon is not available, use oil. BAM members have their own idea of the best oil, but whatever you use: chain saw oil, transmission fluid, or motor oil, Clay recommends adding a shot of STP to the oil can.

The BAM hammer auctioned at the annual conference in Warrenton is now owned by BAM member Jack Nettleson, Odessa, MO. Jack was present at the June 17th meeting and related that he is happy with the performance of the power hammer.

* ultra high molecular weight polyethylene. Used under rock quarry conveyor belts and available from MSC.

Blacksmithing and Safety



Spray Cans in the Shop

by Dave Smucker

At the request of David Oliver, Ed Caflisch of Bristol Forge sent me the following information.

“About six weeks ago Dave Oliver learned a lesson the hard way and hopes other blacksmiths will learn from him. Wanting to use his large shop that was rather cold, he used his new large gas forge to warm it. Then after allowing the forge some time to cool, he happened to want to do some spray painting. Because everything in the shop was still cold, he placed a cold spray can on the forge.

He had done this many times before but this time he let the can pick up too much heat.

JULY-AUGUST 2006

When he picked up the can in a cloth and shook it the can exploded. The explosion pushed his thumb back very hard and propelled the can through the shop roof.

David was lucky, as it could have gone through him. After seeing doctors, he wonders if he will ever be able to use the hand to hammer with again.”

This is not a first for this kind of accident - Tom Clark did a similar thing - his paint can just exploded and put paint all over everything. He wasn't shaking it at the time.

Many of us work in unheated shops or at least shops that are heated only when we are using them. Materials in these shops are often cold and we want things like spray cans at “normal room temperature.” What can we do?

The safest thing to do is to take the can in the house and let it warm up to room temperature over time. If you just must warm it faster, use luke warm water, not hot water. **In no case is a paint can designed to get warmer than 120 F.** You are working with a small bomb.

The other lesson here: “He had done this many times before.” Many times, this is what gives us the real problems - we got by doing something unsafe and weren't caught. It is amazing how many times I have heard this and even how I have done it myself.

I hope we all learn from David's mishap and sure hope that his hand is getting better.

The above thoughts are the opinions of the author and not the position of the Appalachian Area Chapter of Blacksmiths. Remember you are the one responsible for your safety and the comments recorded here are intended for you to think about ways in which you can limit your risk and exposure to the hazards associated with the craft of blacksmithing.

Reprinted from the AACB Newsletter April/May/June 2006

Editor's Note: A couple summers ago I had a can of bug spray explode in my shop. I was nowhere near it at the time, it just got too hot in the shop (probably about 110 F.) and the can failed. Take care, Bob



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

President's Letter
May, 2006

“Personality can open doors, but only character can keep them open”
ELMER G. LETERMAN

So much has been said about the ABANA Conference in Seattle, Washington, July 5-8, 2006, that there is little I can add!

The list of personalities presenting new ideas from around the Pacific Rim promises to add ideas and inspire all who attend! Visit www.abanaseattle2006.com for the latest information.

After the welcoming sounds of the Australian Aboriginal didgeridoo, you will find your every moment filled with choices. Opportunities filled with renowned sculptors, professors, and metal artists, and presentations new to ABANA's membership will make each choice exciting.

The doors will be opened wide for every attendee to share the character of their works with all who attend! Bring 10 slides to show while you share your thoughts at the mike at the “blacksmith karaoke” show in the community refreshment tent.

The gallery and auction exhibits will be exposed to one of the biggest efforts for public viewing at an ABANA conference. All the Seattle media, along with local gallery and art walk venues are publicizing the viewing opportunities. The galleries will be available to local media and art patrons to view throughout the conference, along with an invitation for them to attend and participate in the auction itself.

Did I mention that professional photographs of the exhibits will be available in CD format after the conference? These photos will be used on the ABANA website, printed in local or trade publications and of course our own outstanding “The Anvil's Ring”

Building a resume? Opportunities to broaden the scope of awareness of your work could never be more available! Learning, sharing, networking and growing. It's the “characters” like you and me together that keep the “doors of new ideas in artistic metalsmithing open”! Don't forget to ship or bring your auction item!

SEE YOU IN SEATTLE!

Don Kemper
20100 NW 61st Avenue
Ridgefield, WA 98642
(360) 887-3903
dkemper@abana.org

Editor's Note:

This is the most recent letter I have from ABANA, I guess they were so wrapped up in the conference plans they didn't have time to post a new one. I'm sure as soon as I send the newsletter off to press I'll get a new president's letter and Affiliate Laison letter. Bob

MTS Basic Workshop number 3

Project Sign Holder: (See Picture) 36 inches high and 30 inches wide.

Techniques to be taught: collars, rivets, and mortise and tendons. The students will be able to customize his or her own piece by what is done to the ends of the pieces. We hope every one will take home a completed piece.

(Can not waste any time)

Lou Mueller's Shop
12951 Maurer Ind. Ct.
Sunset Hills, Mo. 63127

August 12th, 2006

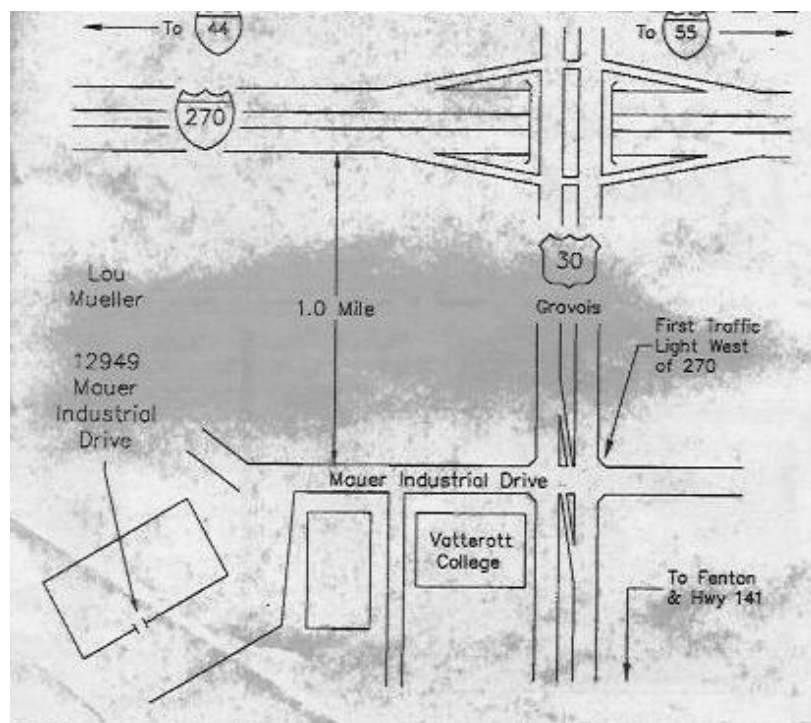
Start time 7:30 am sharp.

Bring lunch, we are trying to get the project done in one day. Must have basic blacksmith skills taught in MTS Workshops 1 and 2. Workshop limited to the first 20 members to sign up. Cost is \$20.00 dollars for the workshop.

Must be a BAM member to attend.
Send registration and all enquires to:
Don Birdsall
11570 CR 5480
Rolla, Mo. 65401
573-364-7223
e-mail birdsall@fidnet.com

Please include a address and telephone number where you can be contacted.
Students are encouraged to bring cameras and tape recorders to record the workshop. A workbook will be available to each student taking the workshop.
Student should bring any safety items they like to wear or use while working. (Safety glasses, gloves, aprons etc.)

Map to Lou's



Next Meeting
Sept. 16
Foxfire Camp
Host: Dale Gilman

Friday: Sept. 15

5:00 pm-10:00pm BAM Family campers arrive at Foxfire.

6:00-7:00 Be our guests for dinner, Friday evening after dinner we will show films in the dining room about "coopers" & "silver smithing" followed by a family movie. There are modern "outhouses" at foxfire (water & plumbing) and limited electric outlets.

Saturday: Sept. 16

7:30-8:30 If you are around, be our guests for breakfast at the bunkhouse dining room.

8:30 It's BAM time Featuring blacksmiths: Larry Hults and Ken Jansen.

Plus: cannon makers Norman Rohlfing and Steve Erookins.

Trade Item: "Railroad Spike Art". Anything made from a railroad spike.

112:00-1:00 Lunch: All you can eat, BAM will be accepting donations at lunch.

1:00 to whenever: Back to BAM, business meeting, more demonstrations.

*** **For the ladies:** Starting at 9:00 am there will be "oerue-jar" making ... coffee, tea, and "girl talk".

In his Sept-Oct 2005 newsletter Bob Ehrenberger said, "Members don't hang around after meetings as they once did!" To encourage everyone to stay for a bit of fellowship, Foxfire is offering the use of it's blacksmith shop to anyone wishing to "push iron around", to demonstrate, or to teach a few beginners.

In addition, we have a lake full of fish that are standing in line to grab your line.

5:00 pm - There will be a demonstration on "cannoneering".

If you are still around at 6:00 you are invited to stay for dinner as our guests.

After dinner we will be playing "no peek" BINGO followed by a family movie.

Our Host is Foxfire Memorial Garden" an alcohol & drug free family oriented Christian entity guided by "the Golden Rule".

Have a question? Call 1 (660) 848-2396

Or 1 (636) 447-6450

Book Review by Ned Digh
The Backyard Blacksmith, by Lorelei Sims

When at my shop recently for a demonstration, Clay Spencer showed me this book by Lorelei Sims. He said it had just been released and may not yet be in the John C. Campbell Folkschool bookstore. On the internet, I found a copy at Northshire Bookstores (www.northshire.com).

My first evening with the book was binding; I must have read half of the book at that sitting. In my opinion, this is one of the best books I have seen for beginners. Lorelei presents the journey to hobby blacksmithing in a logical path of progression. Sidebar explanations are placed throughout the book, explaining tools, supplies, terminology, and safety messages. One sidebar even gives the author's treatment for poison ivy, which is simply an application of well-used quenching water. She ventures an opinion that the iron in quenching water dries the poison ivy blisters.



The first four chapters deal with tools, equipment, arranging the forge, and tips on the physical attributes of blacksmithing, such as: stance and how to hold the hammer, as well as a basic triangular arrangement of forge, anvil, and post vise. There are color photos dealing with coal fires and the color spectrum of hot metal. For increased hammer control, she recommends getting a bucket of nails and practice hammering nails into wood about once a week.

Chapter five is a super guide for both learning and teaching basic blacksmithing. The author, in fact, explains that the book is her effort to present basic blacksmithing in a simple and practical manner. The difference between hot cut and cold cut hardies is explained as well as examples of various types of fullers. Tapering, spreading, twisting, scrolling, and upsetting are covered with explanations, as well as drawings and photos.

The book has a chapter on forge welding and various assemblage techniques such as rivets, collars, and mortise and tendons. The explanations and photographs makes this a valuable reference as the learning curve progresses. Even if these skills are learned in a resident course, the book can be a valuable source of refresher tips and techniques.

A real treat is the section on making your own tooling, which is always the delight of a blacksmith. If you want instruction on how to make hardy tools, a twisting wrench, or nail header, this book is for you. There are also explanations and drawings of a pritchel plate, bending fork, monkey tool, guillotine, and anvil stand. Directions and photos of various hooks, door and gate hardware, a dinner bell, camping cooking accessories, and tools for use with a coal forge are included.

The book has a very good glossary and listings of blacksmith schools and sources of tools, supplies, publications, and websites. This book would be an asset to any aspiring blacksmith and a good reference to anyone teaching basic blacksmithing.

Buy, Sell, Trade

Individual Classified ads

FOR SALE: Two anvils for sale at \$2 per pound. One is a 350# Fisher anvil, good condition (\$700). The other one is a 250# Fisher anvil in very good condition (\$500). Also for sale #2 Hosfeld Bender (air operated, very good condition) with lots of dies, \$800. Contact Maurice Ellis, 573-766-5346 or mbellis@misn.com (12486 Sutton Road, Belgrade, MO 63622)

Kirk Sullens has organized a group buy for gas saver valves. Because of his prior purchases the co. is extending the group price of \$136.25 (tax included) for the forseen future. If you can't meet with Kirk there may be additional shipping costs. (This is a shutoff valve with a pilot light that lets you set your torch once and then quickly relight for each use.)

If interested contact Kirk Sullens. 417-863-8628

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. 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" Suedmeier 420 4th Corso, Nebraska City, NE. 68410 (402) 873-6603

Tire Hammer Workshops, Beverly Shear Sharpening
I have donated my treadle hammer plans to ABANA and will not be selling plans in the future.
Beverly shear blades sharpened \$35 plus postage.
I will be leading workshops to build 50 lb. Tire Hammers, contact me for details.
Clay Spencer, 934 Partridge Lane, Murphy NC 28906-6149, 828-837-0708 or e-mail to clayms@brmemc.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

Classes offered, The Ornamental Iron Shop

Contact the instructor to register and customize your class.

John D. Thompson – Metalsmith
3923 Hwy 25; Hodges, SC 29653
864-374-3933

Classes at Pieh Tool Company, Inc. - Camp Verde, AZ

The Bill Pieh Resource for Metalwork.

Call now for more information and to enroll:

(928) 554-0700 or (888) 743-4866. www.piehtoolco.com.

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 Artist-Blacksmith Quarterly**". For \$28 you will get four issues of how-to information. Contact him at 1229 Bee Tree Lake Road, Swannanoa, NC 28778.

The Upper Midwest Blacksmiths Assoc (UMBA) now has its video library back up and running. An index list can be viewed at www.umbaonline.org They are VHS or DVD-R Cost is \$5 each with \$2 per order shipping There is no return date, you keep the video for this price. All videos are made at group demos, no commercial titles.

Blacksmithing E-books on CD

TWO NEW/OLD E-BOOKS-Weiner Kunstschmiedearbeiten (1928) and La Fidelle Ouverture de l'Art du Serrurier, originally published in 1627. Now eight titles are available on CD, \$4/each, or all eight books, \$24 postpaid. More books are in production and will be available soon- order on-line at www.blacksmithingebooks.com, or check/MO to Brian Gilbert, 3404 Hartford Dr., Chattanooga, TN 37415.

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 carries a complete line of hand forged Hofi style hammers, punches, drifts, tongs, shears, belt grinders and gas forges. He's also importing the Sayha air hammer from Turkey. For more info on the tools contact him at Phone (573) 438-4725. Fax (573) 438-8483.

Buy, Sell, Trade, Continued

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, e-mail: kaynehdwe@charter.net, web site: www.blacksmithsdepot.com. Offering Peddinghaus 2 horn anvils, Offcenter tongs and swages, etc, hammers, tongs, the Fly Presses, Treadle Hammers, and Forgemaster gas forges. We ship and accept Visa and Mastercard.

Persimmon Forge **PEDAL HAMMER** for sale for the more delicate work of chase and repousee, chisel and chase, leather stamping, some stone and wood carving applications, etc., in a comfortable seated position with minimal effort, maximum safety, and fast striking.

The basic 25-pound hammer is \$1,300.00 , many optional upgrades are available.

Contact Dave or Betty Edwards by e-mail at djedwards@cableone.net, or write or call the manufacturer, Four Mile Carriage and Machine, at 3220 West 6th Ave., Emporia, Ks. 66801, (620) 342-4440.

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.
E-mail, bameditor@centurytel.net,
or snail mail to Bob Ehrenberger, 6192 Hwy168,
Shelbyville MO. 63469.

Demonstrator List Forming

Fred Weisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc.

Contact Fred to get on the list:
417-589-2497 e-mail: jweisenb@llion.org

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.

MTS workshops scheduled

Dale Gilman is holding a MTS Workshop at his farm on Saturday October 14th and Saturday October 21st 2006 from 8am till 5pm. Please bring a lunch and drinks for the day. It is about 20 plus miles to the nearest place to eat.

Please bring safety glasses and any protective clothing that you prefer to wear, apron, gloves, hearing protection, etc.

The workshops are going to be held at Foxfire, MO. which is 10 miles NNW of Boonsville, MO. on Highway 87. It is one mile north of Highway J and 1/4 mile south of Highway 187, ten miles South of Glasgow, MO.

To contact Dale: he spends Tuesday till Saturday mornings at the farm at Foxfire. Telephone number: 1-660-848-2396.

Saturday afternoon till Tuesday morning at his home in St Peters, MO., home telephone number: 1-636-447-6450.

Dale has no mail service at the farm, to reach Dale by mail send it to:

Dale Gilman
4002 West Drive
St. Peters, MO. 63376

You must be a BAM Member to take the workshops. The cost of a one year membership to BAM is \$25.00 dollars. The cost for each day of the workshops is \$20.00 dollars. You can send both to Dale Gilman. Please enclose a telephone number and an address where you can be contacted.

For information about the Program that is taught at the workshops contact:

Don Birdsall
11570 CR 5480
Rolla, MO. 65401
1-573-364-7223
e-mail: birdsall@fidnet.com

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
390 Bozina Valley Trail,
Freeburg, MO. 65035

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

5. Jeff Willard, (417) 742-4569
P.O. Box 416,
Willard, MO. 65781

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

6. Denis Yates, (573) 286-5316
343 Lamp Dr.
Sunrise Beach, MO. 65079

Price \$10.00 per bag BAM members, \$11.00 per bag Non-members, \$9.00 per bag at Bob Alexander's
Coal keepers earn \$2.00 a bag

NOTICE

Bob Alexander called to say there was a mix-up with the last coal order and some of the coal was in larger than expected chunks. He is putting a few chunks in each bag to use it up. Please be understanding when you get a surprise in your bag.

Upcoming Events

August 12 - MTS workshop #3 Lou Mueller, Sunset Hills, MO.

September 18 Newsletter submission deadline.

September 16 BAM Meeting Dale Gilman, Boonville, MO.

October 14 - MTS workshop #1 Dale Gilman, Boonville, MO

October 21 - MTS workshop #2 Dale Gilman, Boonville, MO

November 4 BAM meeting Matthew Burnett, Cameron, MO.

New E-mail and phone:

Peggy Williamson peggy-creations@cox.net 870-404-5709

New Coal Keeper:

Denis Yates, Sunrise Beach, MO. 573-286-5316

New Members

If you have a new member near you, welcome him to the group and show him the ropes.

Black, James
POB 784
Arkadelphia, AR 74923
870-245-8785

Harvey, Aaron
561 South 25 West
Dana, IN 47847
harvey61@localnet.com
765-492-4306

Rennie, Rosen
9320 Gateway Drive
Neosho, MO 64850-8118
417-451-5674

Ficker, Jack
H.C.R. 1, Box 400
Jadwin, MO 65501
jficker@wildblue.net
573-729-7065

Lewis, Jeffrey
5029 Countryside Drive
Imperial, MO 63052
jlewis2068@aol.com
314-435-7050

Sass, Phillip
24610 147th Street
Leavenworth, KS 66048
philsass@homesteadresources.com
913-351-3011

Francis, Peter
RR 3, Box 194A
Butler, MO 64730
660-679-4014

Matheny, Don Robert
5000 Hwy 124
Harrisburg, MO 65256
573-874-0259

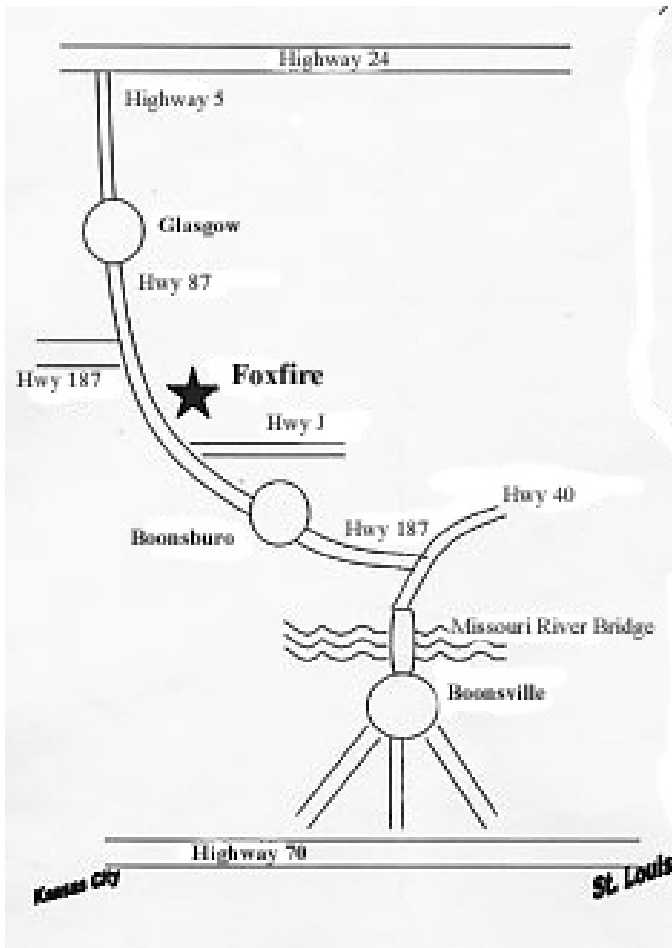
Smith, Rick
Box 129
Marquand, MO 63655
573-783-7151

Gold, Kirk
L-60, Rt 1
Lake Lotawana, MO 64086
only2goldies@yahoo.com
816-578-5775

Miller, Kenneth
4673 Farm Road 205
Rogersville, MO 65742
417-883-5583

Warner, Fred
303 N. 2nd Street
Wheeling, MO 64688
fbwarner@greenhills.net
660-659-2406

Next Meeting: Sept. 16, 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.

Summary:

Location: Foxfire Christian Camp

Host: Dale Gilman

Phone: 660-848-2396 Or 636-447-6450

Trade item: Anything made from a railroad spike.

Demonstrators: Larry Hults & Ken Jansen

Directions:

10 miles North of Boonsville on Highway 87

10 miles South of Glasgow on Highway 87

200 yards South of the Highway 187 intersection.

1 mile North of Boonsburo / Highway J

More information on page 22

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