

BRAM

November -December
2004



Alice James
at the November 20th meeting at Prairie Hill, Missouri

NOTE: The phone & email for Clay Spencer was incorrect in last issue:
The correct items are: clayms@2brmemc.net & 828-837-0708

Editorial Comments *by Ned Digh*

This will be my last issue as the BAM Editor. Esther and I have decided on some extensive travel plans and it would be impractical to retain the editor duties. It has been an interesting and rewarding 18 months. Many thanks are due to others: Joe Wilkinson for appointing me, Phyllis Wilkinson, Mara Harper, and Bess Ellis for proof reading while I learned publishing. Ruth Hull did two super interviews; George Lewis, Linda Walker Stevens, and Vance Moore, Kate Dinneen, Bess Ellis, and Steve Goldberg submitted articles for publication. Scholarship reports came in and we even had two articles in rebuttal to one of those. Shop tips and holiday items came in from a number of members, but Dave Edwards and Don Grammond were the most frequent contributors. My family has been of great support. Esther has done the interviews of members to share with the readership and our grandson, BAM member Eric Qualls taught me to use the Macintosh computer and the publishing software. When we return in the spring, we will continue to be active in BAM and enjoy being members of one of the best blacksmith associations in the country.

Membership Roster on the Website ?

The BAM roster is published once each year and a copy mailed to each member. While most of us like to have a hard copy in hand, changes, additions, and deletions usually do not get either disseminated or posted in our personal copies. The webmaster, Ed Harper, has the capability to post the roster on the website, with a password, for those with internet access to refer to. This is really a win-win situation; it would cost nothing as BAM already pays a fee for the website and secondly, it provides up to date information on names, addresses, phone numbers, and email addresses. Since not all members have internet access, it will be necessary to continue the hard copy, but for those with internet access, it will be a giant leap forward. Pass your remarks to one of the officers (Don Nichols, Doug Clemons, Ed Harper, Bruce Herzog).

BAM Workshops Needed

In recent times, BAM has had 3 major workshops: the Clay Spencer Table (funded by Doug Hendrickson and Lou Mueller), the gas forge workshop by Larry Hults, and the treadle hammer workshop with Bruce Herzog at the helm. Before that there were others for forge making, side draft flues, coal forges, etc. Where do we go from here? A treadle hammer tools workshop is in the making for 2005 with Clay Spencer and Bob Alexander. For 2005, BAM needs a couple more workshops, especially for the newer members that do not have a lot of equipment and would desire to be part of a workshop. The most limiting factor is apparently shop space and coordinators. Lou Mueller has been gracious and extremely cooperative in allowing his shop to be used. Not many people would allow that and Lou's passion for teaching the craft is a credit to himself and BAM. Even with use of the Mueller shop, it is not convenient for all members to come to the St. Louis area to participate. For lack of a better term, some regional workshops are needed, especially in the western and southwestern parts of the state. A stopgap would be for more members to host a "Hammer In" at their shop on the months when there is not a BAM meeting.

The Next Editor

The new editor will be Bob Ehrenberger. Please support him with articles, photos, letters to the editor, and shop tips. Contact info: Bob Ehrenberger, 6192 Hwy 168, Shelbyville, MO 63469-9769
Phone: 573-633-2010 email: eforge@marktwain.net

Hello from Old What's His Name. Well, did we have a good meeting as usual? I knew we would because when we go to Alice and Japheth's studio your eyes get dazzled by the samples on the walls and all of their nice equipment. Did anyone see something they would like for Christmas?

I want to thank Alice for her demo on the fireplace poker with a pinecone on the handle. After the meeting, she gave helpful information on coke fires, demoed how to make a rams head, and Ken Lane got to work on one. I hope Japheth is better. I understand he hurt his back the day before the meeting. Was it from pushing the broom to clean the shop? Is everybody's shop that clean? Hum, I wonder.

Boy did you all show me what you can do. I've been harping on everybody to try making something for the trade item. You came up with really nice candle holders. Great job boys and girls. Please do this again for the Sedalia meeting. Start now and see how many different ice cream scoops or spoons we can create.

We have a new editor. Ned's last news letter is Nov.-Dec. issue. Bob Ehrenberger will take it over starting the new year. I'm sure Bob will also do a BAM up job so help him with articles and how to's. Thanks so much to Ned for all his hard work and Esther too.

It was good to see several at the meeting that we hadn't seen for awhile. John Murray was back from overseas, Pat McCarty from wowing all the people at Silver Dollar City, and Maurice & Bess from visiting the SOFA conference. Oh yes, did anyone see Doug? Good to see you Doug and hang in there.

Summary of the Minutes from the November 2004 Meeting:

1. President Don thanked Alice James, Japheth Howard, and Elliott James for hosting the meeting.
2. Don announced that the board would be meeting soon to make some changes and decisions on pending matters.
3. Bruce Herzog gave a financial and membership report.
4. Larry Hults gave a report on preparation for the annual conference and announced that more volunteers are needed.
5. President Don introduced Bob Ehrenberger as the new BAM Newsletter editor, effective with the January-February 2005 issue.

Photos from the November 20th meeting at Prairie Hill, Missouri
Hosts: Japheth Howard and Alice James
Demonstrator: Alice James

Japheth and Alice have one wing of a former school building, which is also used by Elliott James, brother of Alice. Being present at the meeting was a double treat, not only viewing Elliott's R&D lab and equipment, but Elliott was on hand to explain the processes of constructing his products.



Alice is demonstrating making a pine cone.



More Photos - Meeting at Prairie Hill



Japheth Howard and Son Cyrus



This is Japheth with a stair railing in New York City that he has been commissioned to replace with a custom designed metal railing. The new railing must be fabricated off site.



A trip to Prairie Hill is always a treat. Japheth and Alice have a blacksmith shop in about one third of the former school. Elliott James, the brother of Alice occupies the rest of the building with the research, development, and engineering functions for his company, which makes fiberglass products. He has a nearby plant which produced 8,000 radiator shrouds last year for up scale motor homes (like \$250,00 and up). The 34 Ford car body is there for the purpose of making a form for a company in Kansas to put these in production for custom made hot rods in the \$75,000 - \$100,000 range. The bottom left photo shows Elliott's micro measuring device. After the measurements are collected in the computer they can be used for CNC data. Elliott took this device to New York City and measured the stair railing that Japheth is going to replace. He said the measuring job took about 8 hours.



A Visit with Japheth Howard and Alice James

By Esther Digh

It is not often that you find husband and wife blacksmiths with national reputations but this is certainly the case with Japheth Howard and Alice James. They may share the same shop but have their own work stations and have created their individual styles of metal arts. Their shop is in a former school house which they share with Alice's brother's R & D facility for fiberglass products. They are currently producing radiator shrouds for expensive motor homes. Japheth focuses on architectural items and tools and restoration work while Alice creates more artistic items.

Japheth's interest in blacksmithing started in his early teens and he had built his first forge by age 15. He is a self-taught blacksmith. At 19, he had his own blacksmith shop. He had an early interest in archeology and history and originally searched for stone tools and arrowheads. Japheth said, "You could say I moved from the Stone Age to the Iron Age." He grew up in the New Mexico and Colorado area that had numerous old abandoned mining towns. These towns all had blacksmith shops and he literally dug-up many of his first blacksmithing tools, forge, and fire pot. Also, when you live 60 miles from the nearest town and hardware store, he learned to make needed tools and to repair them as well.

Japheth has worked in New Orleans and Seattle and spent a year in England. He completed an internship at the National Ornamental Metal Museum, Memphis, in 1989-1990. It was there that he met Alice. During the 7 years in Seattle, he made tools for boat builders and said that he liked to make tools for people because they needed and used them but could not find them. Japheth says that you can learn a lot about people by the way they use their tools and sees people and tools as working together. He not only uses his own tools but those made by others, thinking of those individuals as he uses their tools.

Now, Japheth has advanced from the Iron Age to the Technological Age. Currently, he is designing and fabricating a stair railing for a building in New York City. With the assistance of his brother-in-law, Elliott James, Japheth is using some very sophisticated computer equipment in the design phase of this project. Many of his clientele want specially designed architectural items. Japheth has taught classes at Penland in North Carolina and at Peters Valley Craft Center in New Jersey. Last year he returned to the Ornamental Metal Museum to take a course in engraving on metal.

Alice and Japheth both come from families with artistic backgrounds. Alice chose to pursue a degree at Southern Illinois University at Carbondale and holds a BSA in Fine Arts. According to her brother, Elliott, she took an elective course in metals and was extremely upset with the grade she received. The next thing he knew she had

The Visit with Japheth and Alice continued

decided to change her major to Metal Arts. Alice said that she was attracted to metal arts because she found metal gave her a greater challenge in conveying an idea. Painting and sculpture did not present such a challenge. She intended to complete graduate work in Seattle, studying with silver smiths Mary Lee Hugh and John Marshall but she ended up completing hands-on training under the supervision of blacksmith Darryl Nelson. Alice feels that this experience was better in advancing her skills than an academic program of study.

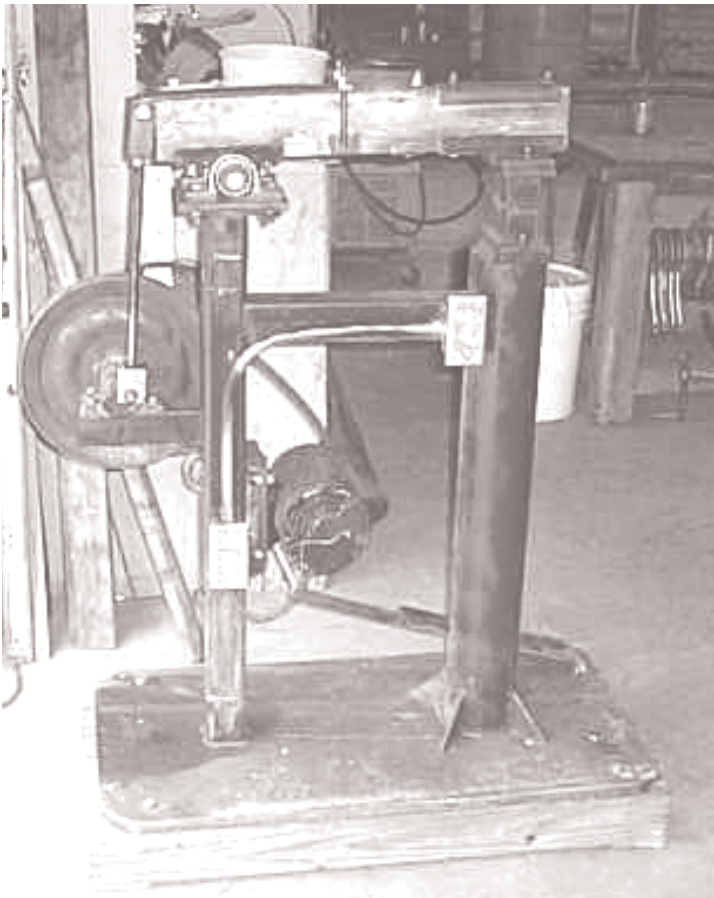
Alice has taught at Penland as well and at Haystack Mountain School of Crafts in Maine. She completed a two year residency in metalsmithing and jewelry making at the Appalachian Center for the Arts in Smithville, Tennessee, and will return there to teach this coming summer.

While observing Alice at the recent BAM meeting, it is obvious she is at ease at the forge and demonstrates with confidence. As she was helping Ken Lane with his ram's head, she also demonstrated her teaching ability. The candleholders Alice entered into the Gallery at the ABANA conference and were featured on the July-August cover of the BAM Newsletter, are outstanding example of her artistic ability. Alice likes to focus on producing one of a kind pieces of art work for exhibit and sale. She calls this speculative work which she enjoys doing in addition to helping with Flicker Forge and their business.

Japheth and Alice have a son, Cyrus, turning 2 in December. According to his dad, Cyrus likes to re-organize the bolt bin and play in the coal bin. His blacksmithing talent is yet to be determined but Alice says he seems to have mechanical ability and likes rocks. BAM is fortunate to have such an artistic couple in its membership. We can look forward to Alice as one of the featured demonstrators at the annual conference in Warrenton.



The
Howard-James
Family



Helve Hammer

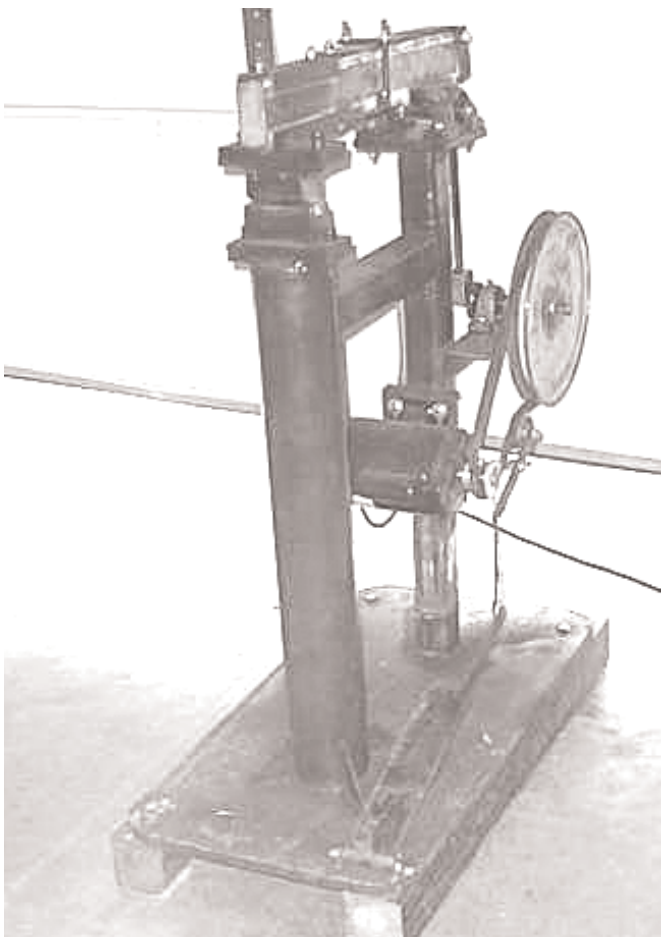
This helve hammer was brought to the meeting at Prairie Hill by BAM member David Hancock.

David had this fabricated by a friend in Nebraska, who demonstrated it to a very attentive and interested crowd.

It is powered by a one third HP motor and has a spring loaded clutch pedal which presses a pulley (flat pulley) up against the drive belt.

Ed Note: A search on the internet showed a number of comments about helve hammers used for auto and hot rod work, but none for blacksmiths.

Making helve hammers would make a super workshop project! Anyone interested in being the workshop coordinator?



Conference News from Larry Hults

The BAM Ozark Conference is on April 29, 30, & May 1, 2005. That might seem like a long time away, but it will be here sooner than you think. By being on the committee we have already seen several deadlines come and go.

When I was looking for demonstrators, I heard comments like:

“BAM always puts on a good conference.”

“The BAM Conference is a good time.”

Let's try to live up to that.

We also need to support the commercial vendors that come to the conference. When they make money, they make donations to the auction so that we make money. So far, only one vendor said that they could not come to the conference because they did not make enough to justify the trip.

This is BAM's major source of income. The dues that we pay each year don't come even close to covering the newsletter, let alone our insurance, or scholarships.

Start thinking of items to make or donate for the auction. These items do not have to be limited to blacksmithing.

The Boutique is another good source of income. Ruth Hull is in charge of the boutique. You can make or donate items that would be worth \$25 or less. These items do not have to pertain to just blacksmithing either.

Walt Hull needs entries for the Gallery, so be working on something for that, too.

We still need volunteers for the Conference Crew.

Invite your friends and neighbors, too. You never know who might turn out to be an undiscovered blacksmith.

14TH ANNUAL OZARK BAM CONFERENCE AT WARRENTON, MISSOURI APRIL 29, 30, AND MAY 1ST, 2005

Demonstrators

Blacksmiths: Bill Epps and Alice James

Knifemaker: Joe Szilaski

Family Programs

Scrimshaw: Ron Newton & Gourd Art: Kathy Nichols

Volunteers Needed to Assist with Setup/Teardown

(free registration and Sat evening meal)

David Smith 573-659-5601 dissmith@fidnet.com

Reproduction credit shown above

Going Mobile

Article and Drawing By Henry Sibenaller

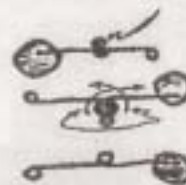
Anna and Jan Loney have been inspired by the work of Alexander Calder. He published a number of books featuring Mobiles. He painted many of his works in bright colors. One of his well-known works has now been relocated in the new Pittsburgh International Airport. *(This presentation was done at the Jody Best Hammer-In)*



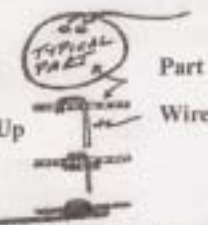
To make a loop:
Use Round Nose Pliers

To attach a wire:
Punch or drill two holes

Flip Over



Bend Up



Part
Wire

No need to weld or solder wire to part. Bending works fine and looks good too.

Hook

Wire or String

Rotate part to change the look.
Vertical surfaces help to catch the wind and promote movement.

Vertical loop minimizes rotation of the lower parts.

Move part along wire to change balance

Multiple Loops

To change spacing add "S-Hook", Swivel, etc.

Horizontal loop allows lower parts to rotate ~180 degrees.

Change length to balance.

Trim

Hole

Other ways to change Balance:
Change materials
Change thickness
Change size

Notes:

1. Make mobiles from parts you like (anything)
2. Start by making parts and arrange them on a table (or floor).
3. Use round nose pliers to bend wire.
4. Copper plated gas welding wire works well.
5. Work from the bottom and up.
6. Movement adds interest.
7. Having equal lengths of wire from the balance point is generally not very interesting.
8. Make smaller models before making large ones.
9. Mobiles can be made large or small to suit you need or desire.

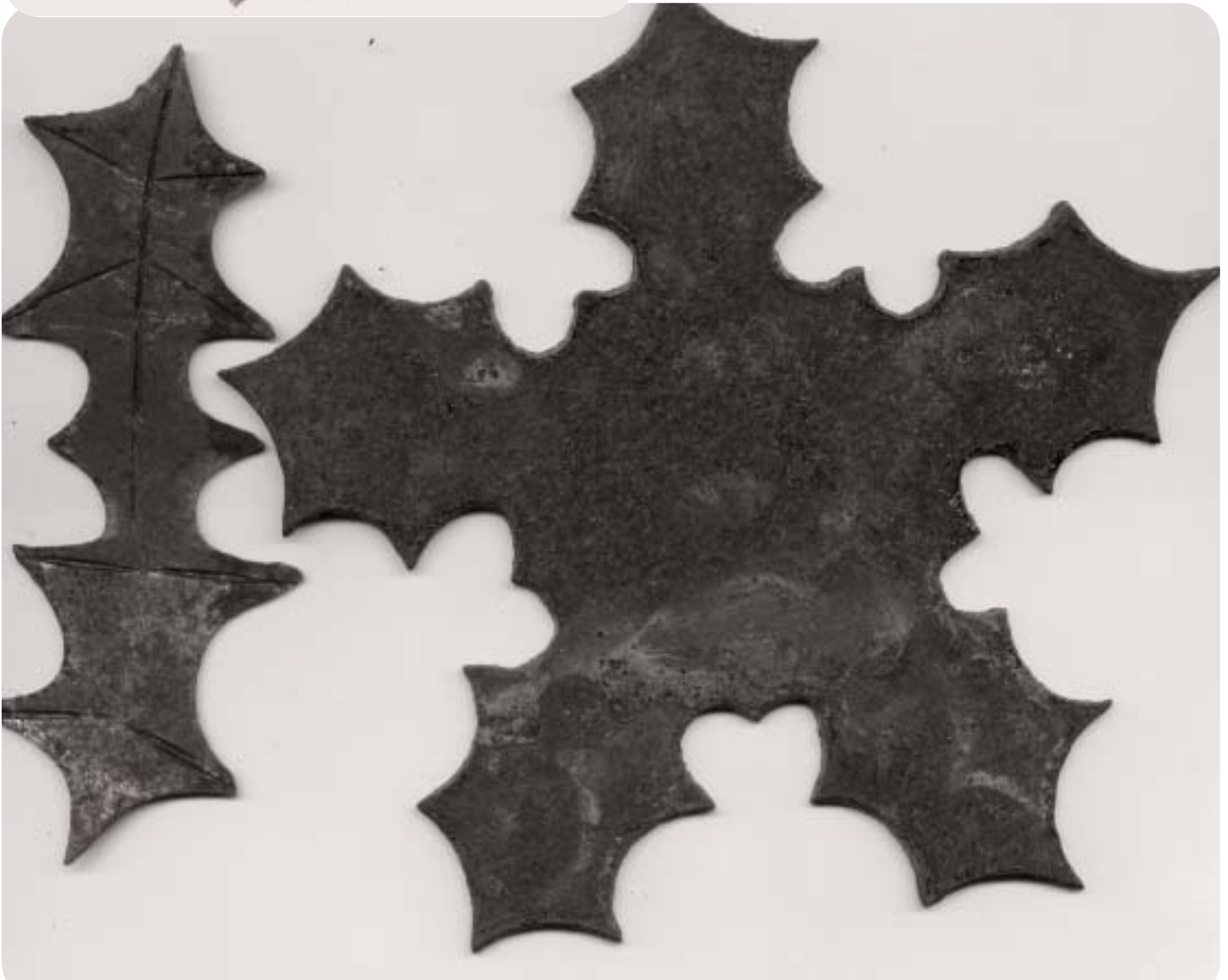
A good hole punch capable of making holes up to 1/4 inch diameter in 1/4 inch thick sheet is made by the Roper Whitney Co. and is called the "Jr. Portable Hand Punch." The kit has several punch inserts and is available from MSC.com (on the internet) for \$64.98. Phone 1-800-645-7270



Holly Candle Holder


From Charlie Comstock

Last year Charlie sent the photo at left on his Holly Candle Holder. Recently he sent a pattern blank. the image at the bottom is a full size pattern.




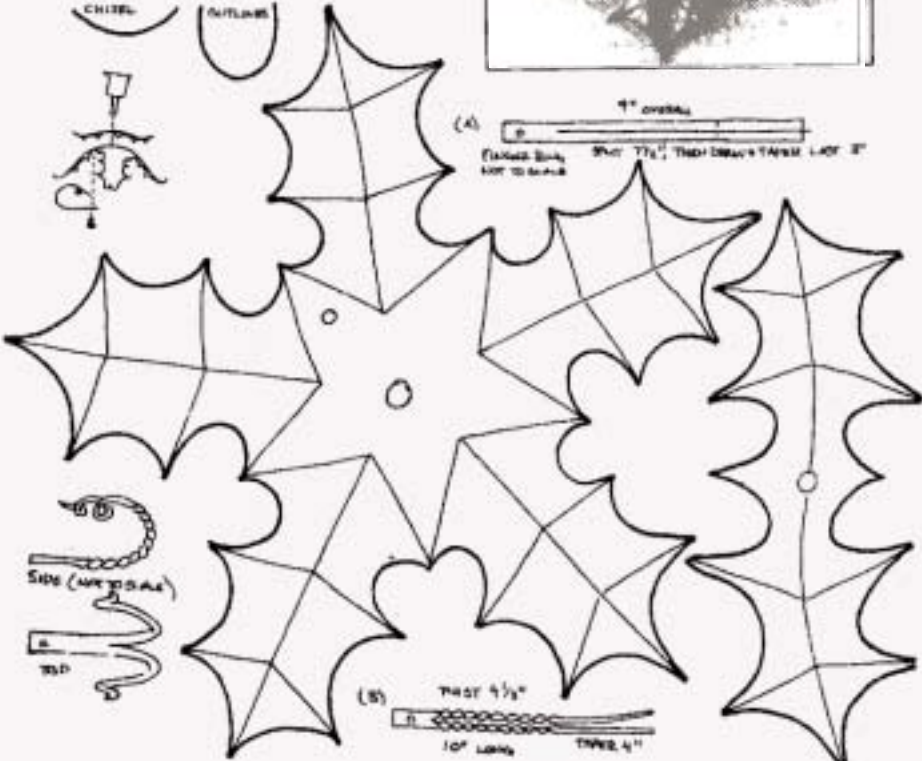
Holly Candleholder

Reproduced from the Florida Clunker Breaker, July 2000 issue, with previous credit to the Hot Iron News, Northwest Blacksmith Assoc, Fall 1999 issue, and to the Appalachian Area Chapter of Blacksmiths and member Gary Scasbrick



Holly Candleholder

From the Appalachian Area Chapter Newsletter comes Gary Scasbrick's novel Christmas Creation. The sheet metal pattern below is full-size, though Gary says to deduct 1/16" since the pattern is made from a pencil tracing. You'll need to make two curved chisels to cut it out. Gary uses jackhammer bits hardened in water. He cut the sheet cold, and the chisels are still razor sharp. The finger ring is riveted to the underside of the main leaf. The double twist of the finger ring really sets the piece off. Forge the candle cup by fulling down a piece of 3/4" pipe. Leave the stem long so it can be used as a rivet to hold the whole thing together. Dish the leaf on a swedge block, then heat and brush with a brass brush to give it a golden color.

CHISEL

CANDLE CUP

(A) 9" CANDLE CUP
 (FILLER BAR, 3/4" DIA., THEN DRAWN TAPER, LOST 3"

(B) TAPER 1/2"
 10" LONG TAPER 1/2"

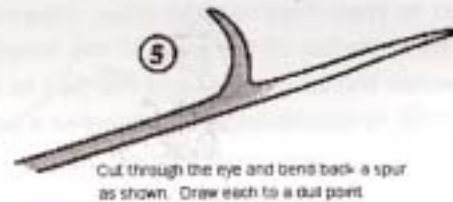
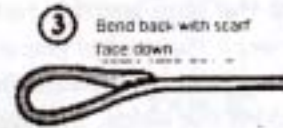
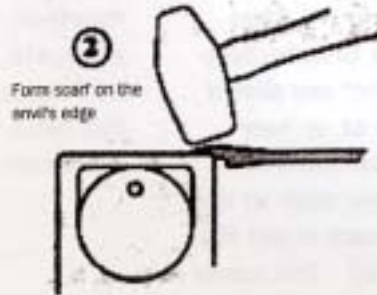
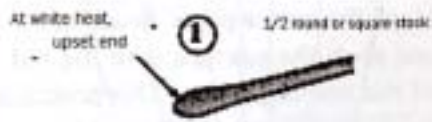
SIDE (WIRE TO BE ADDED)

Fire Poker Great Holiday Gift

Reproduced from the Appalachian Blacksmiths Association Newsletter, sep 2003 issue, with previous credit to the 4 States Iron Munchers Newsletter, Vol. 4, # 3, 2003

Fire Poker with Braided Handles

LIFT THIS SECTION OUT AND START YOUR PROJECTS NOTEBOOK TODAY



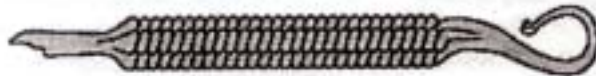
⑥ Cut the other end so that the poker—minus the handle—is 25" to 27" long (or however long you want yours to be.) Upset this end as before. Cut four 16"-long pieces of 1/4" round. Fold each in the middle and weld the ends together.



⑦ Twist each of the folded pieces in a clockwise direction, counting the twists so that each pair has the same number of twists.



⑧ Assemble the bundle of four twisted pairs and tightly wire them together (some use a hose clamp.) Weld the ends, then draw one end long enough to form a scarf for welding onto the poker, and draw the other end long enough to make a loop.



⑨

Reheat the handle, dip the ends in water to cool them, and twist the center portion in a counterclockwise direction until the twist takes on a wavy appearance. Weld the handle into the poker.



There are all kinds of ways to make poker handles.

Some are strictly utilitarian while others, such as diamond and basket twists, are a pleasure to look at and feel and could be called works of art in themselves.



Reprinted from 4 States Iron Munchers Newsletter, Vol. 4, #3, 2003

Thanksgiving Hammer In at Ham's Prairie with MTS Equipment

Three afternoons with following # of attending members: Fri (16) Sat (5) Sun (17)
 Saturday we had bad weather. Almost a different crowd everyday!

The Johnsons
 Drew, Shane, &
 Clayton at left
 and Beth at right.

Beth is graduate
 of MTS at Mexico



Sean Mullen with his
 brake drum coal forge.
 Jenna Mullen is also a
 BAM member. She is
 shown assisting Sean
 on a project.



Richard
 Garland



Gabe
 Craighead



Mike
 Maddox



Mike
 Cave



Joe
 Pope

The Faust Park Festival *by Steve Goldberg*

The seventh annual Faust Park Folk Festival (formerly Blacksmith Festival) was held Sept. 25-26, 2004 at the park in Chesterfield, Missouri. The festival, which draws thousands of visitors annually, was the site of a display and demonstration tent run by longtime BAM member and former ABANA president Lou Mueller and assisted by blacksmith Tim Underwood. Mueller has put in much time and effort over the years to ensure a BAM presence at this annual event. Dozens of items were on display including some beautifully intricate ornaments.

The blacksmith demonstration tent was open during the entire two-day festival and drew many interested spectators, young and old alike. Underwood estimated that perhaps half of the visitors this year were children, who especially enjoyed the opportunity to see the blacksmiths at work.

This years, festival featured two fascinating exhibits, protectively housed within glass cases inside the Carousel House on the park grounds. The MacNeal Lock display is on loan from the National Ornamental Metal Museum in Memphis and contains intricate locks dating back to perhaps the 1400s. On display were a variety of ornamental locks including one amazing fiddle-shaped lock and even a pair of handcuffs.

The other exhibit was the famous Mastermyr Project, named for the town in Sweden where an ancient wooden tool chest was discovered deep in a bog back in 1936. This tool chest contained over 200 items, amazingly well-preserved given that it is estimated that these objects date back perhaps a thousand years. As Tim Underwood explained, metal won't decay from rust if there is essentially no oxygen present, even if it is floating in water. Since the Mastermyr tool chest was sunk deep in the mud, there was little oxygen to destroy the metal tools. According to Underwood, there are about 60 blacksmiths around the country who have contributed their time and talents to faithfully reproducing these items, with the display rotating around to various communities. He added that it is incredible to see that many of these tools from medieval times are not really all that different from what we use today. Included in the display were a variety of hammers, axes, nails and hacksaws, as well as some finished products such as bowls, tongs, and spatulas. For more information on the Mastermyr Project, visit the websites listed below. You might also want to obtain the book *The Mastermyr Find : A Viking Age Tool Chest from Gotland*, by Greta Arwidsson and Gosta Berg, from Larson Publishing.

Some of the websites that I found helpful include :

<http://www.netlabs.net/~osan/Mastermyr/>

<http://www.historiska.se/collections/treasures/viking/verktyg-e.html>

<http://www.angelfire.com/wy/svenskildbiter/Viking/vikchest.html#Introduction>
<<http://www.angelfire.com/wy/svenskildbiter/Viking/vikchest.html>>

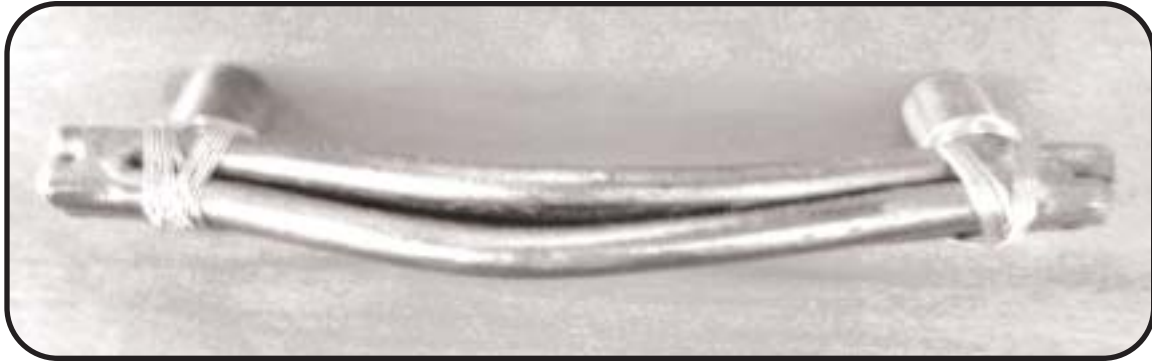
<http://www.warehamforge.ca/norse.html>

<http://www.vikinganswerlady.com/wood.htm>

If there are other blacksmiths who would like to appear with Lou Mueller at next years, Faust Park festival, contact Lou or you can call the Faust Park staff at (636) 532-7298.

Steve Goldberg is a freelance writer in St. Louis and has had articles published on a variety of topics. He can be reached at smgoldberg2000@hotmail.com.

Kate Dinneen's Drawer Pull



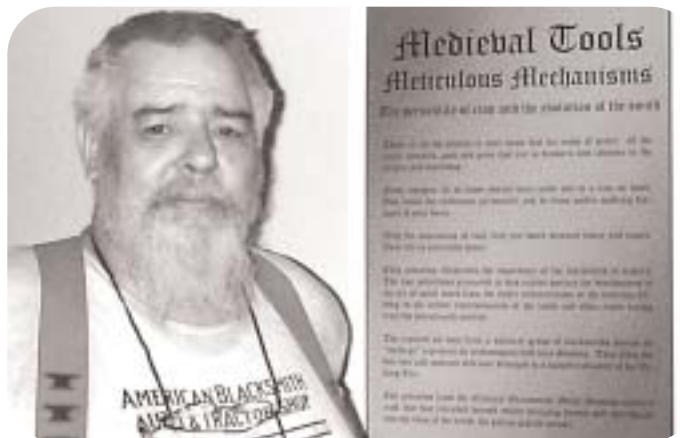
The Sep-Oct issue stated that Kate designed and made drawer pulls for a chest that won 2nd place in the Lawrence, KS Art Exhibit. That issue featured a photo of Walt Hull's entry (Volleyball at the Convent), but the photo of Kate's work did not come through with the email. Thanks to Ruth Hull for providing the information to correct this.

Here is Kate's method for making the drawer pulls: "I used three pieces of the round bar, about 4.5 inches long, for each pull. I tacked the ends, bent to shape then welded the spacer and round bar with copper wire. I used a little dab of super glue to hold the end of the wire in place".
Materials: 3/16 round bar, 26 gauge copper wire, and 3/8 X 3/4 spacers (for standoffs)

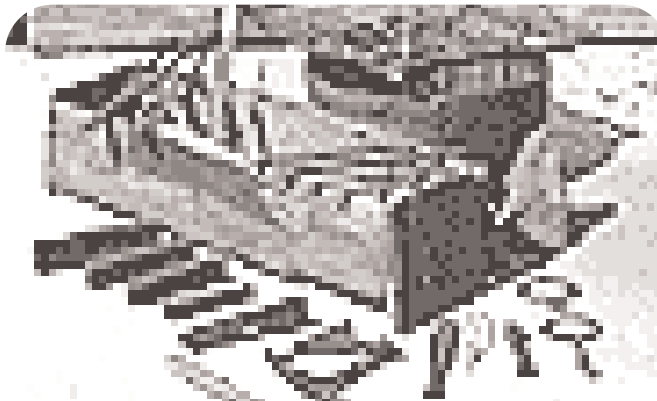
Faust Park Article Photos *Sent by Steven Goldberg (see article on preceding page).*



Lou Mueller
and
Steve
Goldberg



Tim Underwood



Ed note: The original (at left) was by Compuserve format and unfortunately did not translate well through the various mediums to get it in the newsletter. Thanks to Steve Goldberg for providing the article and photos.

MTS at Mexico, MO - November 6th, 2004

Gabe Craighead

Steven Glascock



Beth Johnson Janet Sanders



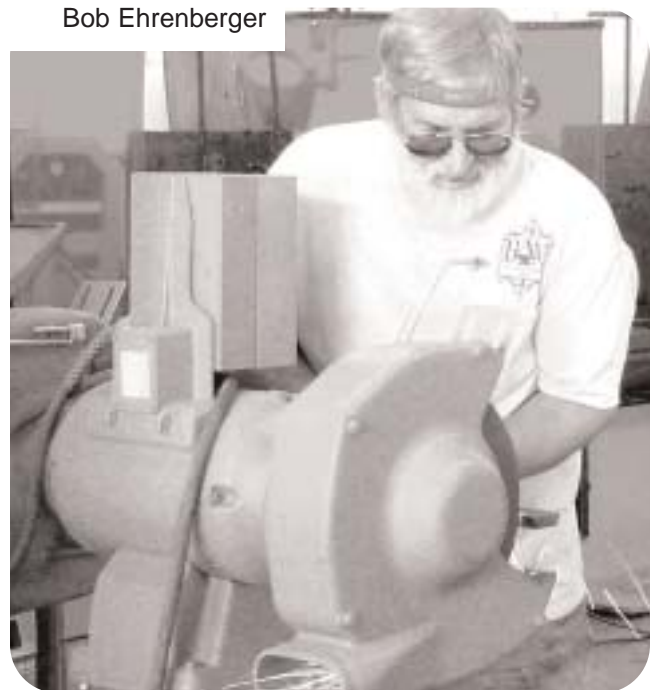
Don Birdsall and class



Steven Glascock



Roh Hutsel



Bob Ehrenberger

Treadle Hammer Tools Workshop - Jan 8 & 9, 2005

This workshop will have a maximum of 30 participants, with each person leaving with 20 tools for the treadle hammer. Bob Alexander will be the BAM coordinator, with Clay Spencer as the workshop director. At press time, this workshop was almost full. Anyone desiring to know if there is a vacancy or be put on a waiting list, contact Bruce Herzog. A \$50.00 deposit was due by December 1st, with an additional \$50.00 to be paid upon arrival for the workshop. The total cost is estimated to be \$100-\$125 per participant.

Note: For all participants: Bob Alexander will hold a work session at his shop in DeSoto on December 18th. This session will be to prepare some of the materials for the January 8th and 9th. With 20 tools per person to be made, a total of 450 handles must be made. All work done in advance will shorten the days of the workshop.

Clay Spencer indicates that Sunday (the 9th) may be a long day unless lots of preliminary work is accomplished.

Questions: Enrollment: Bruce Herzog **314-892-4690**
Workshop Info: Bob Alexander **636-586-5250**

Mobile Training Station Schedule for 2005

January and February, 2005

Host: Jeff Willard

PO Box 416, Willard, MO

Phone: 417-742-4569 email jessjump@hotmail.com

February 26 and March 5th, 2005

Host: Ray Scott

HCR 2, Box 196, Eminence, MO 65466

Phone: 573-226-5541 email pforge@socket.net

Note: Ray was planning to move to Steelville, call him to confirm the location of the MTS class.

An MTS class will be conducted on April 30th at the annual conference.

In the past, these classes have filled fast, so if you are interested contact Don Birdsall to register:

Don Birdsall: phone 636-6775398

email djbirdsall@networkusa.net

By BAM member Stephen McGhee, publisher of Irony
See his ad on page 26 for subscription information.

A ROUNDING HAMMER

<p>1. LAYOUT & DRILL GUIDE HOLES</p>	<p>5. FULLER GROOVES</p>
<p>2. SLIT PUNCH & NOTCH TO ISOLATE HEAT</p>	<p>6. SMOOTH TRANSITIONS</p>
<p>3. DRIFT</p>	<p>7. CUT OFF GRIND ENDS HEAT TREAT</p>
<p>4. FLATTEN BULGE WITH DRIFT IN PLACE</p>	<p>FINISH SANDING, PAINT & HANDLE IT BRAG TO YOUR NON BLACKSMITH FRIENDS HOW IT ONLY TOOK 2 PEOPLE 3 HOURS AND 8 BEERS AND HITS BETTER THAN ANY STOREBOUGHT HAMMER. They will look at you funny but they do already...</p>

THANKS TO JIM RITCHIE, SALTFOUR CRAFTSMEN, FOR THIS FORMAT

Adjustable Hook Jigs
Steve White

I had to make a batch of 70 hooks for a customer that was going to use a variety of old wooden blocks for a job rack. There were some with different ends, some with the same ends, and some different lengths. The rack very limited that the length of the blocks of the rack was to exactly the same.

I used tool frames for the stock that as I do for a lot of my jigs. They are less, light, and more are very much steel. I cut these 1/2" dia or so. If longer blocks are used, they could always be clamped or bolted to a piece of square tubing or channel.

Make three in pairs. One of each size number you will be holding your hook against. Make three of the same, all to be held on all to the right as they will be put in the rack to hold. Use the same different sizes and clamp to the rack to get the length you want.

At left: Adjustable Hook Jig(s)

Reproduced from The Fire's Edge -
Newsletter of the Great Plains Blacksmith
Association, Sep-Oct 2003 issue, with previ-
ous credit to the Upper Midwest Blacksmith
Association

Shop Tip from BAM member Don Grammond

LIFT TRUCK FORKS-A SOURCE OF TOOL STEEL FOR YOUR SHOP PROJECTS

While putting together my first shop built air hammer, which was about a 95% dumpster diving project, I came across a source of steel that made excellent dies. A discarded lift truck fork. Being 6" wide and 2" thick it was just the size I needed, so I torched off a couple of lengths to make the dies from. As I machined the dies I realized that the material was not the alloy of steel that I had assumed it to be.

A spark test showed it as a medium carbon steel, but this just did not seem to be correct for the use as lift truck forks. After a call to a representative for Hyster Co. I was told that all their forks were of 15B45 steel. I was not familiar with these alloy numbers and could not find them listed in the machinery's handbook.

To avoid trial and error heat treating on something 2" thick I needed the specks on it.

After some Library searching I found it, Boron Steel-15B45. It is a plain carbon steel which was developed for the war effort during WW11.

By combining up to ½ % Boron to low carbon steel, an inexpensive hardable steel was made, thus saving alloys for other uses. My experience has been that this material is easy to work with, sawing, machining, flame cutting, welding, forging and heat treating.

Heat to 1400 degrees F (1 hour per inch of thickness, the magnet trick does not work on 2" thick dies, the 1400 degrees must be allowed to soak to the center.)

Oil quench and draw temper to suit use of part.

That first set of dies are for drawing out stock and are still in good condition after 12 years use on a 100lb. Air hammer. The rock well hardness was 52.

THE RUSTY RECLUSE

BAM Membership Application

Mail to: Bruce Herzog, 2212 Aileswick Dr. St. Louis, MO 63129

Name: _____

Check New Member _____

Address: _____

One: Renewal _____

Phone: _____

Volume 21 No. 6 - November - December 2004

The Newsletter of the Blacksmiths Association of Missouri is published six times a year and mailed to members. The annual fee for 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 63469-9769; email: eforge@marktwain.net. Membership inquiries should be addressed to: Bruce Herzog, 2212 Aileswick Dr., St. Louis, MO 63129; 314-892-4690 (e-mail: bjherzog@msn.com.)

Occasionally some material may 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.

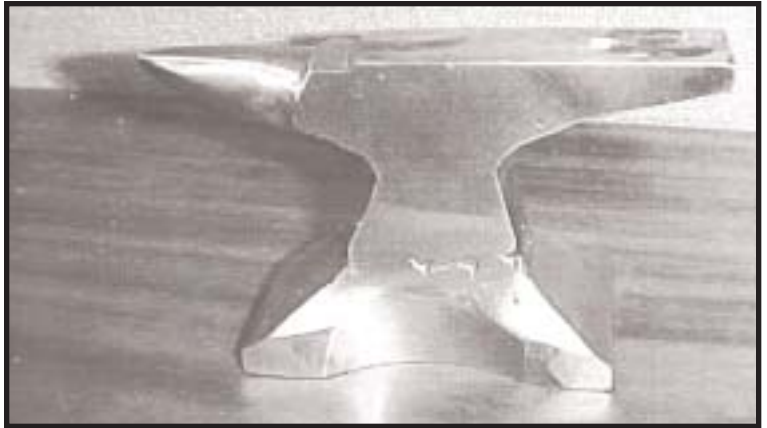
**R
U
S
T
Y**



**APPALACHIAN
BLACKSMITHS
ASSOCIATION**

RUSTY & DUSTY
Appalachian Power Hammer plans—\$22.00 (US)
plus postage for outside USA
Jerry Allen 304-745-3886
****New email: TheWizardsForge@aol.com
www.appaltree.net/rusty

Anvil Evening Project
by BAM member Mike Gentzsch
Height 2.5 inches
and 4.75 inches long



ABANA Membership Application Mail to: ABANA, PO Box 816, Farmington, GA 30638

Name: _____ **New Member:** _____ **Renewal:** _____

Address: _____ Annual Cost: Regular \$45; Senior \$40; Student \$35

Phone: _____ Contributory \$100; Library \$35 Includes subscriptions to

City: _____ State _____ Anvil's Ring and The Hammer's Blow magazines

Blacksmith Association of Missouri

President: Don Nichols 1st VP: Doug Clemons 2nd VP: Ed Harper Treasurer: Bruce Herzog Secretary: John Murray
660-862-9252 660-595-2257 660-946-4460 314-892-4690 636-398-4640
cclemons@cdsinet.net aramed@grm.net bjherzog@msn.com

Librarian: Mike Williamson 870-445-2779 Editor: Bob Ehrenberger 573-633-2010
sabforge@bullshoals.net eforge@marktwain.net

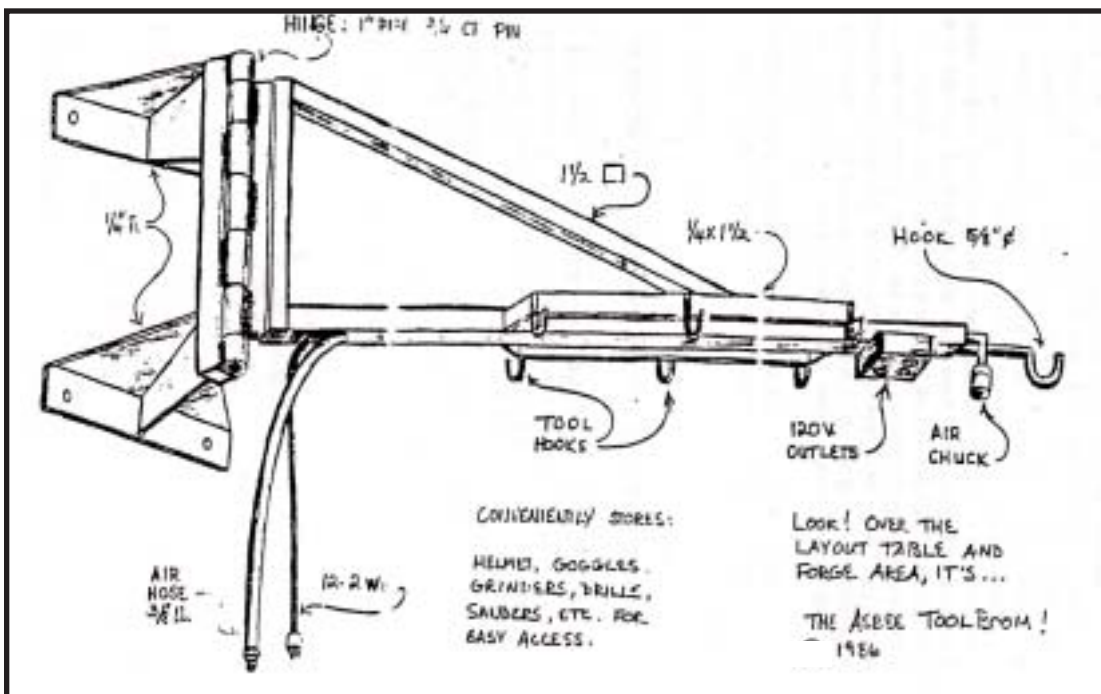
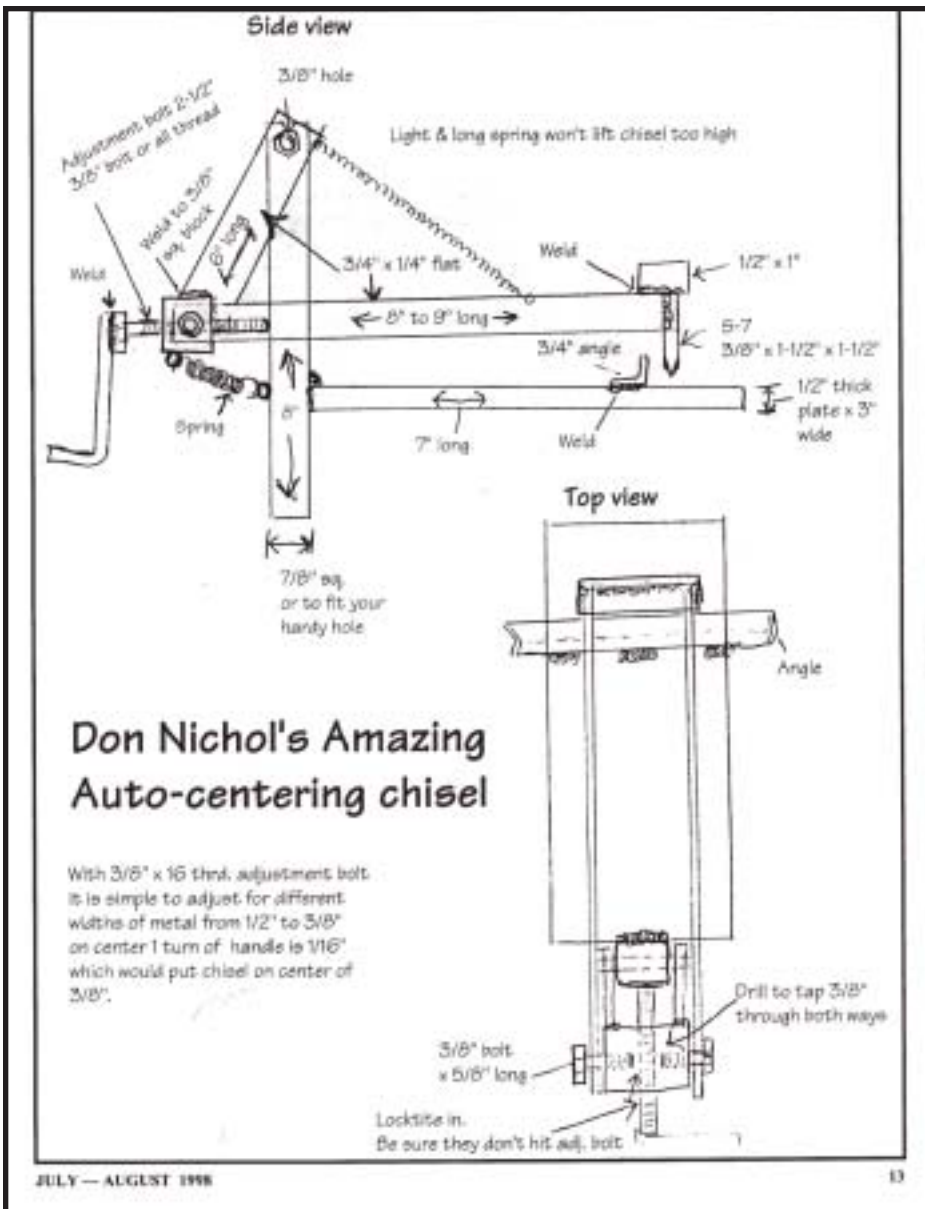
The Blacksmiths' Association of Missouri is a chapter of the Artist Blacksmiths' Association of North America, and is devoted to the preservation and advancement of blacksmithing and to communication among blacksmiths in Missouri and surrounding areas. BAM's newsletter's goal is to support these aims. Letters to the editor, tech tips, tools for sale or anything else which furthers these ends will be considered for publication.

The Newsletter of the Blacksmiths' Association of Missouri and its members do not manufacture, distribute, sell, test, warrant, guarantee, or endorse any of the tools, materials, instructions or products contained in articles or features in the Newsletter of the Blacksmiths' Association of Missouri. The Newsletter of the Blacksmiths' Association of Missouri disclaims any responsibility or liability for damages or injuries as a result of any construction, design, use, manufacture or other activity undertaken as a result of the use or application of information contained in any articles or features in the Newsletter of the Blacksmiths' Association of Missouri. The Newsletter of the Blacksmiths' Association of Missouri assumes no responsibility or liability for the accuracy, fitness, proper design, safety or safe use of any information contained in the Newsletter of the Blacksmiths' Association of Missouri.

Website: www.bamsite.org

**FROM
THE BAM PAST**

At left:
Reproduced from the
BAM Newsletter
July-August
1998 issue



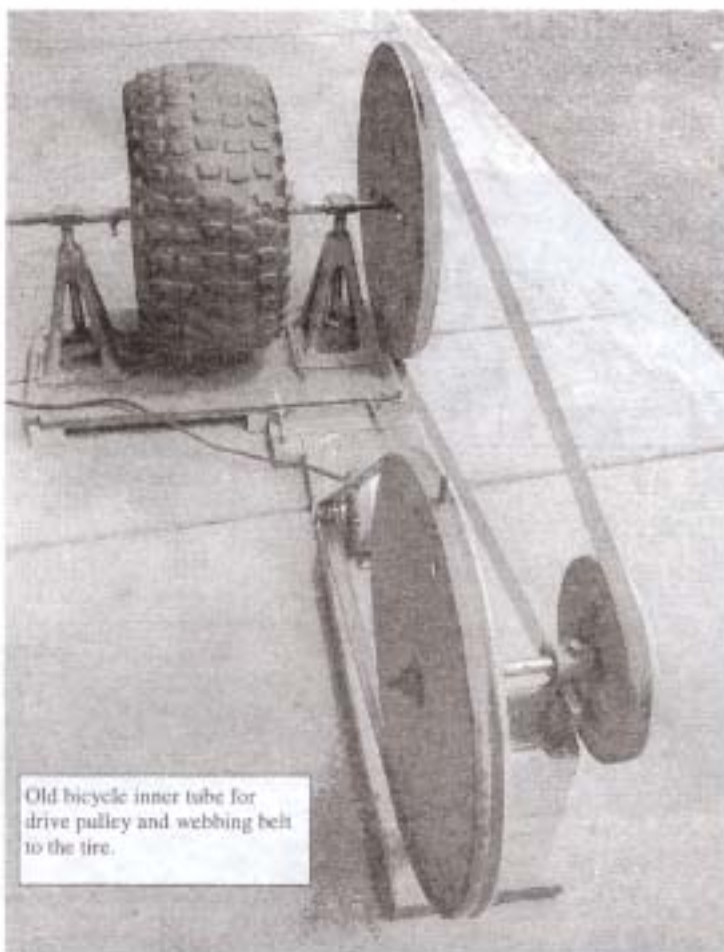
FOR SALE: From Dan Nibbelink, Member of Rocky Mountain Smiths and ABANA

LITTLE GIANTS: 50lb, overhauled, new spring, dies, etc. w/motor, \$3500. 25lb, good condition, 3ph motor, \$1800. ANVIL: 186lb INBA, new \$975. Farrier's portable coal forge w/elect blower \$100. www.nibbelink.net/bs/forsale, 970-532-4387, smith@nibbelink.net, equipment is in Colorado.

A Quiet Tumbler

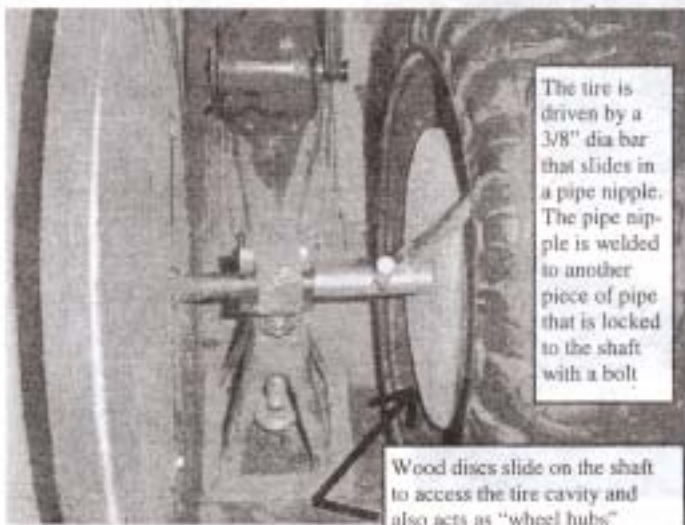
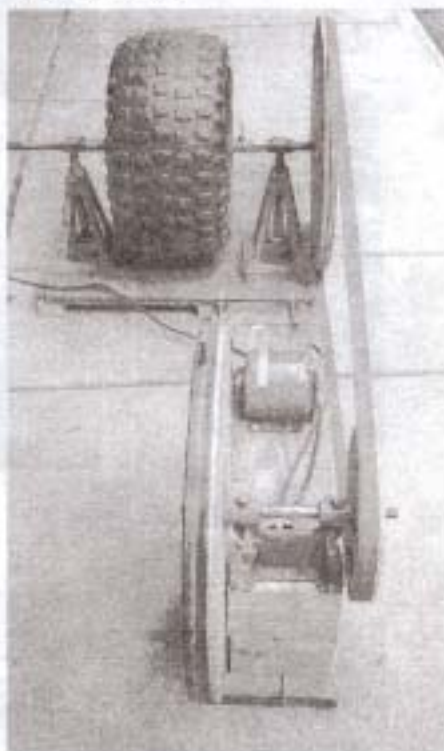
Reproduced from The Anvil's Chorus, Fall 2004 Issue, a publication of the New York State Designer Blacksmiths

*Bob Corneck-Journeyman Forge
August 2004*



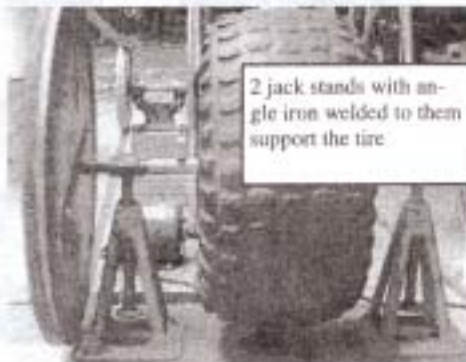
Old bicycle inner tube for drive pulley and webbing belt to the tire.

Motor 1/8 hp 1750 rpm
Drive pulley—1" diameter
Driven pulley —20" diameter
Intermediate Pulley—9.5" diameter
Drum pulley - 23.5" diameter
Tire 25 / 12 / 9



The tire is driven by a 3/8" dia bar that slides in a pipe nipple. The pipe nipple is welded to another piece of pipe that is locked to the shaft with a bolt

Wood discs slide on the shaft to access the tire cavity and also acts as "wheel hubs"



2 jack stands with angle iron welded to them support the tire

BLACKSMITHS DEPOT

Go to | About Us | Sell Items *Kayne & Son* Contact Us (800) 667-8868



The World's Finest Blacksmith's Tools

We are full time blacksmiths and USE the tools and machines we sell. Give us a call if you need advise on equipment selections or setting up shop.

We have changed our name but the products and excellent service are the same! Our on-line catalog has full color images of all the tools we sell! Take your time to explore our new easy to use catalog.

Kayne & Son are long time supporters of BAM
See their other ad on pg 26

www.blacksmith'sdepot.com

Coal For Your Forge:

- | | | | |
|---|----------------|--|------------------------------|
| 1. Bob Alexander, DeSoto, MO
14009 Hardin Road, 63020-5586 | (636)586-6938 | 5. No Entry | |
| 2. Ken Jansen, Moscow Mills, MO
2257 Carter Road, 63362 | (636) 366-4353 | 6. Jeff Willard, Willard, MO
P.O. Box 416, 65781 | (417) 742-4569 |
| 3. Doug Clemons, Malta Bend, MO
(RR 1, Box 124, 65339-9801 | (660) 595-2257 | 7. James Rumbo, Oak Grove, MO
7223 Hardsaw (PO Box 215) | (816) 625-8675
64075-0215 |



TONG MAKING CLASS

WEEKEND COURSE
FRI. 5-9PM SAT. 8-5PM

4 PEOPLE PER CLASS
\$125.00 PER PERSON

We will make the tools needed to make tongs, then utilize several methods to forge a variety of different tongs.

MO-KAN Forge
Charles Comstock
Rt. 1 Box 20
Deerfield, MO 64741

(417)927-3499

CALL FOR AVAILABLE DATES



BLACKSMITH TOOL SALE

SATURDAY DEC 18TH 2004
9 AM TO 12 NOON

ANVILS
VISES
FORGES
TONGS
TOP ANVIL TOOLS
HAMMERS
COKE & COAL

Charles and Patrice Comstock
Rt. 1 Box 20, Deerfield, MO 64741
417-927-3499

NOTE: Thanks to Tom Clark for the tongs used by the Mobile Training Station. He sold these to BAM at a significantly discounted price. See his power hammer ad on page 26.

TOM CLARK'S

Ozark School of Blacksmithing, Inc.

Tom Tongs are here!

22 different designs, 138 different sizes.

Ozark Pattern Anvil 265 lbs.
\$1500. \$2000 with stand, tool tray,
bending fork and hardy.

The Balanced Hand Hammer
\$100. Weights ranging from 1.5-3 lbs.
100% hand-forged quality

Heavy-duty 6" post vise.
\$250. \$400 w/heavy-duty
stand and work plate.

SSM-50

110-lb. Pneumatic Forging Hammer
\$7995 complete with base,
combination drawing and flat dies.
This hammer has unbeatable control!

Ozark School of Blacksmithing, Inc.

20183 West State Hwy. 8 • Potosi, Missouri 63664

Phone: 573/438-4725 • Fax: 573/438-8483 • E-mail: ozarksch@therural.net

www.kayneandson.com

Worlds Finest Blacksmithing
Tools and Equipment
Best Prices
Sold By Experienced Blacksmiths

Fly Press **Peddinghaus
2 Horn Anvils**




**Forgemaster
Gas Forges**



OFF CENTER TOOL CO.

*Kayne and Son
Custom Hardware, Inc.*
100 Daniel Ridge Rd - Dept AR
Candler NC 28715
(828) 667-8868 or 665-1988
fax (828) 665-8303

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

For Sale: Custom-built air hammers. 6# table-top model #1400; 25# table-top model (redesigned 20# air hammer) \$2000; 20# floor model \$2300; 40# floor model \$2800. Some modifications to the basic hammers can be made to your specifications. Contact: Maurice L. Ellis, 12486 Sutton Road, Belgrade, MO 63622-9197 Phone: 573-766-5346 E-Mail mbellis@misn.com

Treadle Hammer - Complete or Plans, and Beverly Shear Sharpening

Inline (rollerblade) 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

**TOM CLARK'S
Ozark School of Blacksmithing, Inc.**

FINALLY, AN INDUSTRIAL QUALITY 110 POUND AIR HAMMER THAT YOU CAN AFFORD!
FEATURES INCLUDE:

- READY TO PLUG & RUN
- INCLUDES BASE
- 5 HP 220 VOLT 1 OR 3 PHASE
- SUPPLIED WITH SET OF MATCHING FLAT BEE PLUS A SET OF DRAWING BIES

DELIVERY ANYWHERE IN THE LOWER 48 STATES — \$ 300.00

\$ 7995



**SSM 50
Pneumatic Forging Hammer**

OZARK SCHOOL OF BLACKSMITHING, INC.
P.O. Box 5788, Potosi, MO 63664
Phone (573) 439-4725 • Fax (573) 439-6463

New email/website for Tom Clark and the Blacksmith School

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

Wanted

Start planning for the annual Ozark BAM Conference

Items needed for the auction and BAM Boutique

apprentice blacksmith

Irony

- *Step by step process by Notable Blacksmiths
- *Shop Equipment & Design
- *Foundry Practice *Tools
- *Forges *Anvils *Hammers
- *Philosophical Commentary
- *And much more

Read Study by Chad Genter

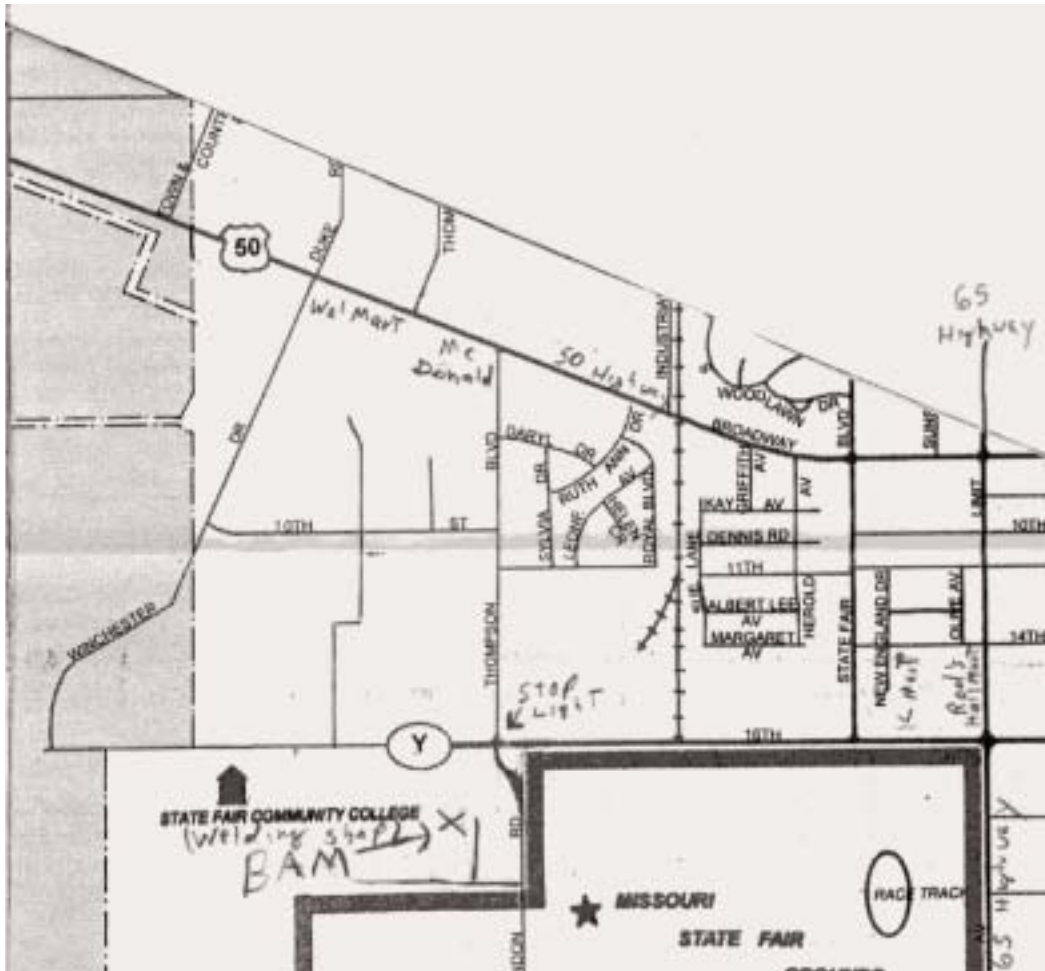
You can view samples of my work here:
<http://metalsmiths.org/news/page4.htm>

Subscriptions are for 12 irregular issues
1 year \$ 37, 2 years \$69, single \$ 5 p.p.
Canada & Mexico: \$ 45/\$85/\$;

We can do repairs on any or all components of your Little Giant front assembly. Call for details. Call or write for new parts list

**LITTLE GIANT
H. "SID" SUEDMEIER
420 4TH CORSO
NEBRASKA CITY, NE 68410
402/873-6603**

**Irony, PO Box 9822
Pine Bluff, AR 71611
870-540-0142**



**January 22nd 2005
Meeting at the
Welding Shop
State Fair Comm
College
Sedalia, MO**

If you have
questions call:

Don Nichols
660-826-9252
or
Kent Harbit
660-647-2349

**14TH ANNUAL OZARK BAM CONFERENCE
AT WARRENTON, MISSOURI
APRIL 29, 30, AND MAY 1ST, 2005**

Demonstrators:

Blacksmiths: Bill Epps and Alice James

Knifemaker: Joe Szilaski

Family Programs

Scrimshaw: Ron Newton & Gourd Art: Kathy Nichols

Volunteers Needed to Assist with Setup/Teardown

(free registration and Sat evening meal)

Contacts: David Smith 573-659-5601 dissmith@fidnet.com
Bob Stormer 636-441-6807 bobstormer@sbcglobal.net
Pat McCarty 636-239-3814 budden51@netscape.net

**January 22nd, 2005
Hosts: Don Nichols
and Ken Harbit
State Fair Community
College
Sedalia, MO**

**Trade Item: Ice Cream Scoop
See Map Above**

**March 19th, 2005
Hosts: Maurice
and Bess Ellis
Belgrade, MO
Trade Item: Any Kitchen
Utensil
Lunch Provided**

2005 Meetings

June 4th Booneville, MO
Host: Dale Gilman
July Bass Pro (Maybe)
Sept Shelbyville, MO
Hosts: Bob & Jan
Ehrenberger
Nov Open
(Contact Kirk Sullens
if interested)

Shop Tip

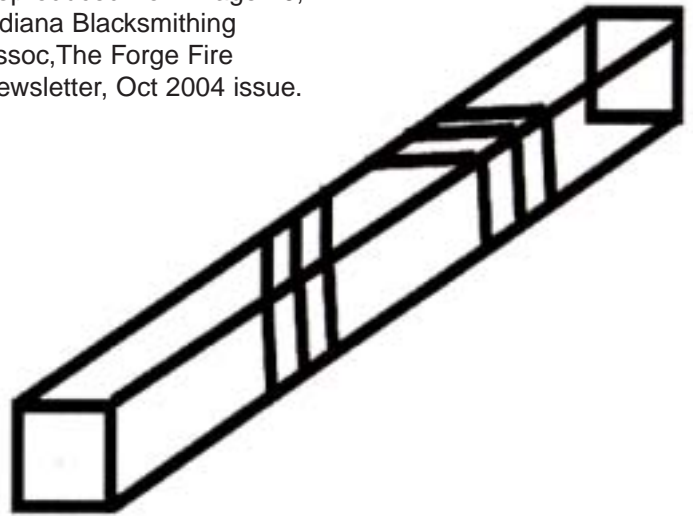
I use this vise tool to put a double twist on ladles, spoons, fork handles, and other things made from 1/4" square stock.

Simply clamp the tool in your bench vise. Heat about 3" of your handle material and lay it in the space between the 1/4 x 1" pieces.

Twist between the sections of square tube approx. a qrt turn using a 6" or 8" adjustable wrench.

John Zile

Reproduced from: Page 10,
Indiana Blacksmithing
Assoc, The Forge Fire
Newsletter, Oct 2004 issue.



BAM

2212 Aileswick Drive
St. Louis, MO 63129

Send address changes to Bruce Herzog, 2212 Aileswick Dr. St. Louis, MO 63129 or bjherzog@msn.com