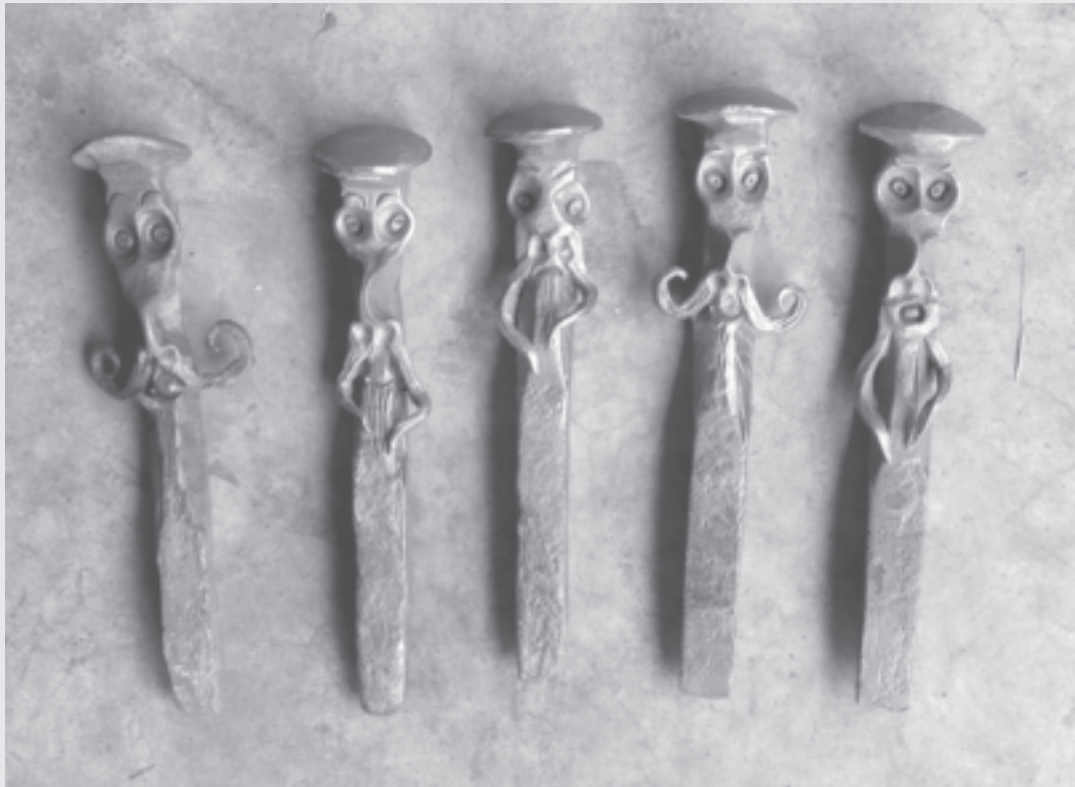


RAM

JULY-AUGUST 2009



Wizard Nation

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**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 26 No. 4
JULY-AUGUST 2009

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Mathias Penn
Bill Tanneberg

President's Message
Ken Jansen

Mailing Labels
Bruce Herzog

The Newsletter of the Blacksmiths Association of Missouri is published six times a year and is mailed to members of BAM. The annual fee for regular membership is \$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 Shelbyville, 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 2009

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: _____

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Address: _____
City: _____ State: _____
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- Regular Member\$55 yr.
- Senior Citizen (Age 65+)\$50 yr.
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- Overseas airmail\$80 yr.
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See reverse

Send this form in an envelope with your payment to:

BAM,
c/o Bruce Herzog
2212 Aileswick Dr.,
St. Louis, MO 63129

I _____ hereby apply for membership in the
Artist-Blacksmith's Association of North America and enclose \$ _____
___ as my annual membership dues for one year.

MasterCard VISA Check/Money Order

Card Number

Exp. Date
(Required)

Checks must be in U.S. currency

SEND RENEWAL TO:

ABANA

15754 Widewater Drive, Dumfries, VA 22025-1212

Dues Distribution:

1 year subscription Anvil's Ring: 68.5 % \$24

Adm. offices & other ABANA projects (Conferences, etc.): 31.5% \$11



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The Blacksmiths' Association of Missouri is an affiliate 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.

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From the Editor

By Bob Ehrenberger

Summer is definitely here, I hope you are all drinking plenty of water. It rained the day of Ned's meeting and was overcast for mine, so we had a couple pretty nice days for our get togethers. As usual, it was a lot of work getting ready for the meeting, but I am trying to make improvements to the shop each time to make my life easier for the long run. It was nice to have Pat, Don, and Daniel do the demonstrations, thanks guys. Thanks also to Jan for preparing the meal and Daniel's wife, Jennifer, for making the pies. Jan and the other wives had fun chatting, they said that they were quilting, but not a lot of sewing actually got done.

It was noted at the business meeting that we didn't have a lot of trade items this time. There was one glaring exception, the Lancaster boys, three of them, each made a pair of tongs, and did a fine job. To the rest of you, this is an opportunity to try something new, expand your skills, and have a lot of fun.

The Lancaster boys enjoyed smashing cans with the treadle hammer, so when the meeting was over, that part of my clean up was pretty much done.

I had some problems with my power hammer a couple weeks before the meeting, but it turned out to be my fault. I had driven the die key in so far that it came out the other side and jammed on the ram guide. Once I figured out what was going on, I just had to grind 1/16" off of the key and everything was OK. Until I have a couple months trouble free operation, I won't trust it completely. John Murray noticed that I had an air leak around one of the valve cover plates and suggested that that may be part of the problem when it doesn't always hit with the same force.

The sales at reenactments have been down this summer. This has us rethinking our business model. With the price of gas, it really isn't worth our time to go to events that don't make any money. I guess we will see what happens with the fall events, when things usually get better. I have promised Jan that if Obama hasn't wrecked Social Security, in two years when we qualify for it, we will cut WAY back on the number of events we do.



On the home front, Daniel has been called back to True Manufacturing in Mexico. This happened at a good time since Home Depot, where he was a temporary employee, had started to cut hours.

One of the editors has put together a list of web sites where you can download part or all of the newsletters from other ABANA affiliate groups. The list of groups and their addresses are on page 22.

All of the Rural Craft Publications books are still available for download at: <http://www.hct.ac.uk/Downloads/craftpublications.html>

These books were developed for the UK vocational education system and are very useful in the teaching of blacksmithing. They have several books and range from beginner level to industrial forging with large power hammers. I talked to Mark Aspery at conference and these were the basis for his education.

For those of you that are unaware, the Missouri Arts Council has an apprenticeship program. If accepted into the program, they will pay the master for his time, and pay the apprentice for materials and mileage if he has to drive a substantial distance. On page 20, there is a picture of Pat and Doug made possible through this program. You can get the applications for the traditional arts apprenticeship program at <http://www.ded.mo.gov/cgi-bin/dispress.pl?txtpressid=109>

The next Newsletter submission deadline is September 19th.



Last time I had a couple pictures of my broken ram/piston. Here is what it looked like after the fix. As you can see, not pretty, but I think I got good penetration.

BAM May 2009 Meeting Minutes

By Don Anders

At Ned and Esther Digh's shop, Ham's Prairie, MO.

TRADE ITEM - LAWN ORNAMENT

MADE BY	TRADED TO
Don Anders	Don Nichols
Ken Jansen	Esther Digh
Ed Harper	Pat McCarty
Bernard Tappel	Ed Harper
Pat McCarty	Ned Digh
Seth Lancaster	Ken Jansen
Esther Digh	Bernard Tappel
Ned Digh	Don Anders
Don Nichols	Seth Lancaster



IRON IN THE HAT

DONATED BY	ITEM	WON BY
Ken Jansen	saw set	Seth Lancaster
Anchor Iron	leaf spring	Lisa Hults
Don Forlow	soap stone	Scott Woods
BAM	old newsletters	Don Forlow
BAM	old newsletters	Ken Jansen
Scott Woods	sucker rod	John Burcks
Walt Hull	dew rag	John Huff
John Huff	gloves	Fred Warner
Don Nichols	bearings	Fred Warner
Ned/Esther Digh	Vgrip/drill index	Bernie Tappel
Ned Digh	Hitch cover	Leo Breinin
Ned/Esther Digh	blacksmith sign	Bernie Tappel
Eric Quaales	shop light	John Huff

BUSINESS MEETING BY Ken Jansen

Conference recap, lost a little money, did not get the support we expected conference dates in national publication. BAM needs to continue to support the conference, we always need volunteers, something for anyone and everyone to do. 2010 conference chair is Joe Hurley, please support him.

- State Fair contact - Kent Harbit
- Threshers show contact - Don Nichols
- WM Steam and Gas engine show contact - Phil Cox
- ABANA conference is ON - please visit ABANA website for info
- Financial report given by Ken Jansen - we currently have 573 members
- Boy Scout camp needs help - contact Don Birdsall
- Ned Digh is the contact for nominating committee

RE: Letter of Thanks to BAM

I would like to express my gratitude to the Black Smith Association (BAM) for their continued support of the SERVE Food Pantry. For several years now BAM has collected funds and canned meat items for the pantry. This year at the May 30th meeting, held at the farm of Ned and Esther Digh, BAM collected \$111 and 75.2 pounds of canned meat.

Due to the current economy, pantries like ours are seeing a great increase in need. At the same time, many food pantries are struggling with decreasing donations. Because of the generosity of groups like BAM, SERVE is able to meet the increased need and keep the shelves stocked with food. Approximately sixty percent of the people served by our pantry do not receive any form of government assistance -that means at least one person in the household is employed - but they make little enough to meet our relatively low income eligibility requirements. For those families, especially, there may not be another place to turn when they are in need.

BAM should be recognized and admired not only for your education efforts and willingness to share your talents and gifts with others by teaching and demonstrating the metal arts to those of us less skilled - but also in your generosity and commitment to your neighbors in need. Please share my thanks and gratitude to your members for their support.

Warm Regards,
"Lisa Brown"
Executive Director, SERVE Inc.

Letter from the president;

Wow, time is moving on, we have had another wonderful meeting at Bob's. If you were there you got to taste some fine pie, if you weren't boy you missed it. Thanks again to Bob and his family for having us.

We had a couple of great demonstrations again from Don Nichols and Pat McCarty, So have any of you made the wizard yet? What about a pair of tongs? I know most of you had to leave and I didn't get to stay as long as I would like but Daniel was giving a neat demo on forging cable Damascus, he was going to etch it I think, but I missed that part. I learned a trick with forge welding cable and that is to heat it, open it, then flux it, and then twist weld it. You weld it by twisting the cable until you feel it solidify. That is going to be a neat trick when I get time to practice it.

For those of you who didn't make the meeting, I will pass on some info here but be sure to read the minutes of the meeting as that will have more detail. BAM has been asked by Mark Aspery if BAM would loan the teaching station to ABANA for use at the conference for next year in Memphis. The board of directors has decided that we should support this. Don Birdsall will be in charge of this as usual. I think this is a good way for BAM to help support blacksmithing, and to do a little bit for the ABANA conference.

We also discussed the need for people to get

involved in BAM and one way to do that is to serve as one of the officers. Every year we have the opportunity to have new people in each of the positions. Think about it and if you are interested then contact Ned Digh who is the chairman of the nominating committee.

We are already working towards the next conference and we are already asking for volunteers. Joe Hurley is the chairman of the committee, he is looking for help, his contact information is in the newsletter and on the website so get involved and help out. He is also looking for ideas for demonstrators, if you have any ideas please let him know. I am sure he would like to hear from you.

There are some requests for demonstrations that have not been filled and the people in charge are asking for assistance. There is currently one in Montgomery City, the Threshers show, they are looking for a blacksmith to demonstrate August 21st, 22nd and 23rd. If you are interested please contact me and I will give you the contact info. Please think about doing these kind of things this is how we get this craft out in front of the public and is to the benefit of all of us.

Well that is all I have for now.

Happy forging.

Ken Jansen

kjjansen@msn.com



Daniel's cable damascus blade. It's kind of rough, but he was mainly demonstrating technique and not going for a finished product.

BAM JULY 2009

MEETING Minutes

By Don Anders

At Bob Ehrenberger's shop, Shelbyville, MO.

First Demo by Don Nichols assisted by Bob Ehrenberger,
Tongs made from rail road spike

Second Demo by Pat McCarty rail road spike wizard

BUSINESS MEETING by Ken Jansen

BAM members need to support Demo's as much as possible, July 25, 2009 at Bush Wildlife, Montgomery County Fair August 2009, State Fair August 2009, Boy Scout Camp info on web site, Phil Cox Threshers August 2009, Don Nichols Threshers.

ABANA 2010 conference, please support and attend if possible.

MTS trailer supporting ABANA 2010 conference, arrangements in progress.

Possible group memberships for Boy, Girl Scout organizations discussion. We may want to create an associate membership that just includes a newsletter to be shared by the group.

Bruce Herzog expressed concern that having our newsletter on our web site may be costing us memberships. We are not sure how to measure the effect.

Nominating committee, if you are interested in position contact Ned Digh.

Group gas-forge purchase still in progress, please contact Ken Jansen if you are interested. We have approximately 18 people interested now.

Possible larger trailer for BAM still in process, we are looking into getting a used trailer to save money.

2010 BAM conference first weekend in May, please contact committee chairman Joe Hurley to help with the conference, need all types of support small and large for another fantastic conference.

Joe Wilkinson is having health problems. Give him a call or send him a card to lift his spirits.

Treasure's report given by Bruce Herzog.

Thanks to Bob Ehrenberger for another fantastic meeting.

TRADE ITEM PAIR of TONGS

Made by	Traded to
Pat McCarty	Ed Harper
Ken Jansen	Michiah Lancaster
Isaac Lancaster	Don Nichols
Michiah Lancaster	Seth Lancaster
Seth Lancaster	Bob Ehrenberger
Bob Ehrenberger	Ken Jansen
Ed Harper	Isaac Lancaster
Don Nichols	Pat McCarty

Iron in the Hat

Donated by	item	won by
Daniel Ehrenberger	patch knife	Dennis Quinn
Triad MFG	BAM logo	Don Anders
Triad MFG	BAM logo	Fred Warner
Triad MFG	BAM logo	Karen Bouckaert
Triad MFG	BAM logo	Larry Hults
Triad MFG	BAM logo	Ed Harper
Triad MFG	BAM logo	Paul Lankford
Karen Bouckaert	hammer/clamp	Scott Stager
Walt Hull	dew rag	Ed Harper
Bob Ehrenberger	tongs	Fred Warner
Bob Ehrenberger	torch tip	Larry Hults
Karen Bouckaert	hammer/clamp	Ned Digh
Ken Jansen	files	James Quinn
Ned Digh	cast sign	Ed Harper
Harry Weber	springs	Richard Kamp
Harry Weber	pins	Ken Jansen
Harry Weber	grinding wheel	Ned Digh
Harry Weber	pins	Mike Gentzsch
Harry Weber	pin	Richard Kamp
Don Nichols	disc/pins	Fred Warner
Bruce Herzog	Blacksmith CD	Ned Digh
Pat McCarty	spike wizard	Bruce Herzog

BAM Goes to Camp

“Let me see what you have”, his mother said.

He handed her the fork with pride in his smile.

After tracing the shape with her hand and testing the sharpness of the tines, she gave it to her husband who asked, “Did you really make this?”

“Yes I really did! This week at scout camp there were these blacksmiths from BAM with all kinds of equipment and these gas forges that got the metal red-hot. They helped us earn the metal working merit badge.

They taught us how to hold the hammer, hit the metal to draw it out, twist it, punch holes, split it with a chisel and all kinds of neat stuff. They gave me an application to join their group and I would really, really like to go to their next meeting. Dad and I can build a forge in the back yard and we can make all kinds of neat things.”



Another blacksmith is born and the art goes on.

We (Don Birdsall, Denis Yates and I) had 26 young men show up for merit badge training the morning of June 15th at Hohn Scout Reservation. We only had ten anvils available, so after a little cajoling, we convinced some of them to come back in the afternoon. The rest doubled up and set to work. After four days, 20 boys completed the course, each creating a meat-roasting fork they were proud of and taking a bit of blacksmithing knowledge home with them. I've attached a photo of the morning class.

If you would like to be involved passing on blacksmithing knowledge, with a bunch of eager to learn, great kids, talk to Don Birdsall about

helping out next year. He runs the BAM training center workshop at the Hohn Scout Reservation four weeks each year beginning about the middle of June. I know he is going to need a lot of help next year as the boys indicated they all had several friends that wanted to get the merit badge and would sign up next year. As a point of interest, this is the only Scout Camp in the state of Missouri that offers the metal working merit badge with the blacksmith option.

Lou Degginger

Scout Camp Update:

We just finished our second year at Boy Scout Camp Hohn at Gravois Mills, MO. We taught forty nine Scouts the Metal Working Merit Badge (Blacksmith Option) during the four weeks we were there.

We also had a lot of adult leaders, scout

masters and scouts that completed the merit badge last year come back and take advance training.

We have the bugs worked out now, so this year was a lot smoother. The camp staff was really great, they were always ready to help us in any way they could.

A big thanks to the following BAM Members who donated their time to come and help: Lou Degginger, Don Nichols, Milvin Rice, Scott Stager, Mike Camden and Denis Yates.

Next year's dates are June 13th to July 10th, 2010. On Tuesday and Wednesday are our heavy forging days, that is when we could use more help. If you could spend one or both days with us, we sure would like to see you there. Any questions please contact me.

Thank You
Don Birdsall

Scholarship Report

Making a Fireplace Shovel

Matthias Penn

With the help of a BAM scholarship, I was able and privileged to take a blacksmithing course from Bob Patrick June 8 – 12 in his shop near Everton, Arkansas. Bob packed a lot of one-on-one teaching into five days of working at the forge. Bob is a great teacher, and my expectations of what I would learn were far exceeded. Here are some of the skills I learned and items we made: forge welding, tongs, hot cut, hardy, hammer eye punch, and some jigs that fit in the pritchel hole, large nails, decorative leaves, fireplace poker, fireplace shovel, forging a ball, scrolls and collaring, decorative twists, and more. Mr. Patrick also passed on much sound wisdom to me over the five days we spent together. By the end of the course he was more than my teacher, he was my friend.

In this article I will describe how I made a fireplace shovel during the course.

For the shovel handle, I made a fleur de lis style. I took a 2 foot piece of 3/8 inch square stock and sectioned off an inch of stock over the edge of the anvil, then hammered it into a leaf shape with a ridge in the center.

Then I took two four inch pieces of 5/16 inch round stock and flattened them to 1/8 to 3/16 inch thick with a taper on one end. I



scarfed the other ends.

Next, I took the handle piece and heated an area about 2 inches from the leaf. I took one of the flat pieces and put the scarfed end in the fire. When the pieces were at a cherry red heat, I fluxed them with EZ Weld. Then I brought them to a welding heat and welded 1 inch of the flat piece onto the handle about an inch from the leaf with the tapered end running past the tip of the leaf. See drawing no. 1.

This is repeated on the other side of the handle with the other flat piece. Try to get the ends to match up. It's a little tricky since you do not have much time before you lose the welding temperature. I had a helper (Bob) to hold the handle for me.

I heated again and with light hammer blows evened and smoothed out the area that had been welded.

Then I heated the side pieces one at a time and with a hammer or scroll tongs scrolled them back to about a one and a half inch diameter circle. Refer to the drawing 2.



Finished Shovel

Making a shovel cont...

The fleur de lis style handle was complete when heated to a cherry red and wire brushed clean.

For the shovel head, 11 to 16 gauge steel should work well. Trace a shovel pattern onto the steel. Then cut it out with shears or a cold chisel. If you don't have a pattern, you can draw one up yourself on cardboard. Just figure how big you want the head to be and trace another $\frac{1}{2}$ inch to 2 inches around three sides where you will be bending up the sides.

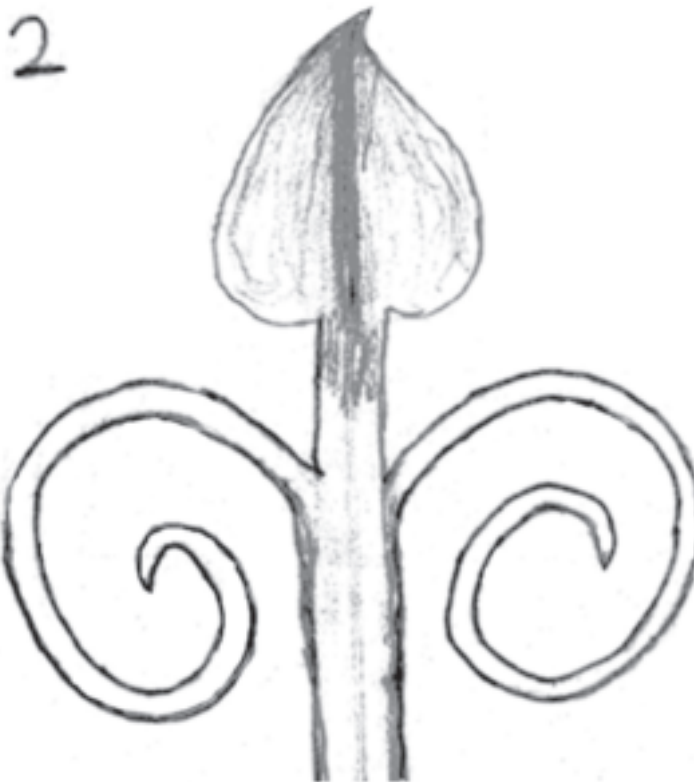
The next thing was to raise the sides of the shovel head. This was a rather slow and tedious process but an important step to do right. I would heat a portion of one of the three sides that were to be raised to a dull red. And then, using the corner of a post vice (a raising stake would work well), I put the piece up against the side of the vice and hammered the edge over the top of the vice. Then I hammered on both flats until the correct area had been upset or drawn out. The part of the steel at the corners has to upset in order to make the bends without ruffles or warping.

After completing the shaping of the shovel head, the next step is riveting the head to the handle. I took the handle piece, and on the opposite end from the fleur de lis I made a short taper and then flattened three inches of it to about $\frac{3}{16}$ to $\frac{1}{4}$ inch thick and shaped it over the anvil to fit underneath and behind the shovel head. Then I punched two $\frac{1}{4}$ inch holes 1 $\frac{1}{2}$ inches apart in this flat part of the handle right behind the taper where the shovel head was going to go (drawing 3).

To align the rivet holes, I laid the shovel head upside down over the anvil and set the handle on it. I then center punched through the holes onto the shovel head. Next I punched holes in the shovel head where the punch marks were and riveted the shovel head to the handle. I used $\frac{1}{4}$ inch round stock for the rivets. On the first try the steel was too hard, and it didn't work; the rivets wouldn't forge cold. We then got softer steel.

Last, I put a decorative twist in the handle aligning the head with the handle.

Making this fireplace shovel was a lot of fun and somewhat of a challenge as well. Mr. Patrick said, "Always work on the edge of your ability working with skills you already know and with some skills that are new." Thank you BAM members for the scholarship giving me a chance to learn new skills.



Ned Digh's Casting Demonstration

By Bob Ehrenberger

I think that Ned has found his calling. He is really getting into casting and has gotten pretty good at it. Ned says that he tries to cast something every day when he is home.

1) The pattern is placed in the casting box (flask) and powdered with a parting dust, Ned uses talcum powder.

2) Sift sand onto the pattern to make sure there are no clumps or voids.

3) Add more sand and pack, repeat until the flask is full.

4) flip over and use a knife to get release around the pattern.

5) Brush off excess sand, tap pattern and remove. It helps to have a socket in the pattern that you can attach a handle to, to assist in removing it.



6) Check the temp of the melt with infra-red thermometer. It needs to be 1500F on the surface. If you don't have an infra-red thermometer you will just have to guess, you will develop an eye for it after a while.

7) Suit up. Protective gear is important, gloves, coat, apron, face shield, hat.

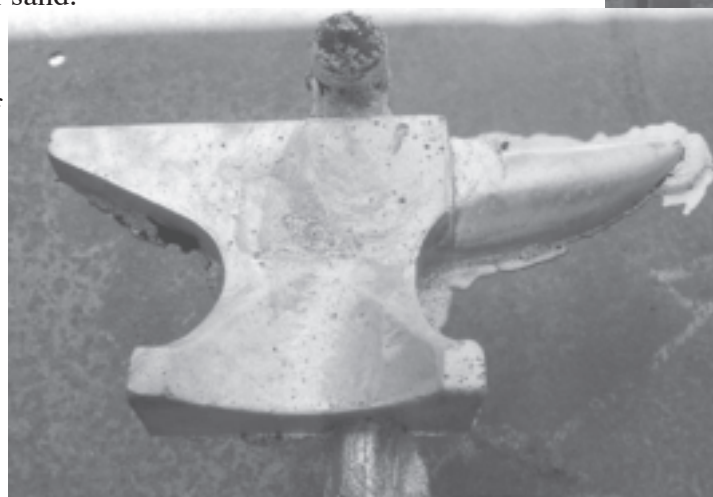
8) Clean the dross off the top of the crucible.

9) Carefully pour metal into the mold.

10) Clean crucible, and put back into forge to cool slowly.

11) When set up, in about 10 minutes, dig casting out of the sand. Break up large clumps of sand.

12) When completely cool, trim the flash off of the part.



Ned Digh's Casting Demonstration Continued...

I wrote Ned and asked for some details that I didn't get written down during the demonstration. The rest of this page is his reply.

Box for casting is called a “flask”. The bottom half is a “drag” and the top half is a “cope”.

All closed molds give off so called “gas”, more so with water tempered sand than with oil based (I use Petrobond). My instructor at the Metals Museum always placed weights on the mold (flask) to avoid the possibility of the top half (cope) from being lifted by the escaping gas.

Venting is a common practice, using a coat hanger wire, punching two or three holes in the cope to facilitate the escaping gas.

I have not found weights to be necessary with the items that I cast.

Sand formula: I started with a bag of sand from Westlakes Ace Hardware, called Quartz sand and a bag of bentonite from MFA farm supply. The books all refer to sand with sharp edges and advise to void sand box play sand. Bentonite is used to seal farm ponds. The sand was about 7 dollars and the bentonite was about 10 bucks.

I mixed about 10% of the bentonite with the sand over a period of 2 or 3 days, turning it over and over with a modified mortar trowel, lightly spraying the mix with water occasionally and covering overnight. When the sand is correctly tempered, you can squeeze a hand full and it stays firm and does not crumble. This is called “green sand”.

I used this green sand mix for about 25 castings, keeping it covered between uses and only occasionally adding moisture to restore temper.

I then found a source for Petrobond, an oil based commercial sand, at a cost of about \$65 for each 5 gallon bucket, including shipping. Petrobond may be purchased from Carpenter Brothers, 2828 Anthony Lane South, Minneapolis, MN 55418. Order inquiries should be directed to the attention of Ms. Barbara Greicius, phone 866-434-7301 or 612-788-3313.

K-Bond is also an oil based casting sand, supposedly developed by Kent State University but I do not know of a source for that mix.

Reference books:

The Charcoal Foundry by David J. Gingery (Available from Lindsay Publications as well as a casting VCR tape)

Metal Casting, Vol I & II, by Stephen D. Chastain

Building Small Cupola Furnaces, by Stewart Marshall

The Complete Handbook of Sand Casting, by C.W.Amen

United States Navy Foundry Manual, reprinted by Lindsay Publications, Inc

Other BAM members with casting interest: Bob Alexander & Preston Williams. Bob Bailey, also a BAM member, was a business partner with Dave Gingery and did the filming of all the Gingery tapes.

Drew Johnson's Horse Head Bottle Opener Demonstration

By Bob Ehrenberger

Cut the horse shoe in half to make two openers from one shoe. Start the business end at the toe of the shoe where you just cut it.

Use a half face blow to create a step in the end.

Cut into the shoe where the step ends,

Open it up and draw out two points.

Bend in the points to form the opener, you will have to experiment a little to get a shape that works right.

Use the heel end of the shoe for the horse head.

Make a deep fuller to section off the material for the head.

Use a half face blow to create a step that will become the nose of the horse.

Bend the head down at the fuller.

Draw out the jaw with a ball pein hammer.

Start the ear on the edge of the anvil. Shape it with a tear drop punch and cut away with a chisel.

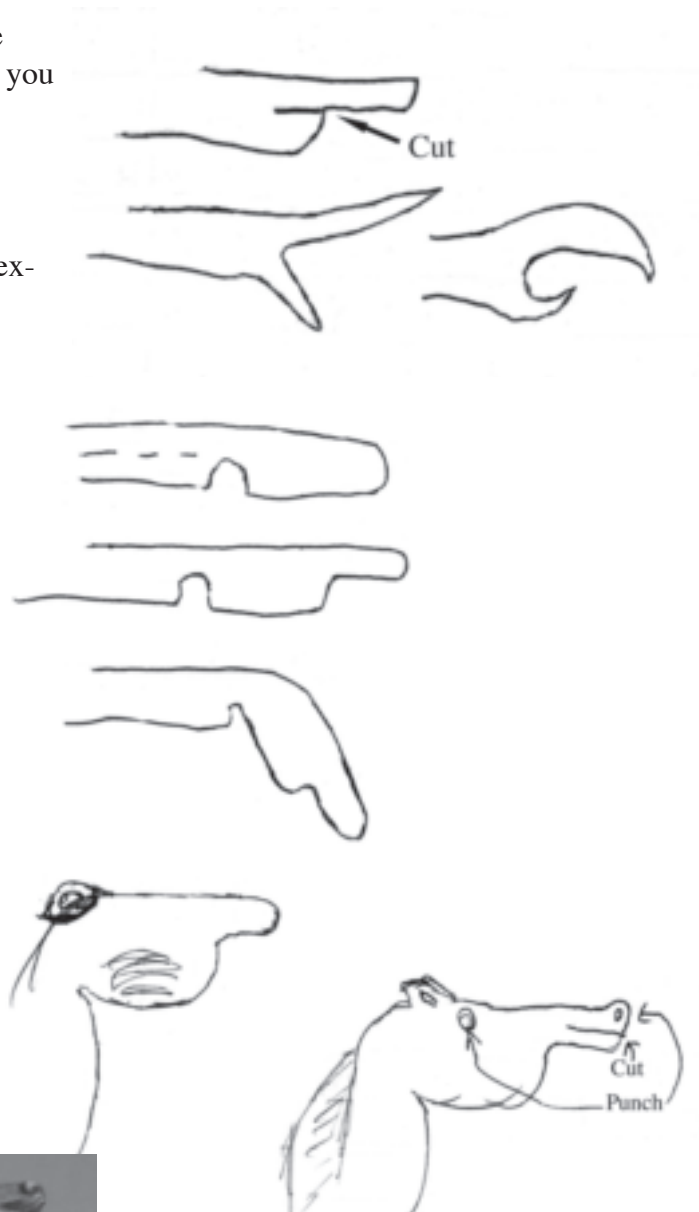
Use a chisel to make the mouth.

Use center punch or ball punch for the nose.

Use ball punch or hollow eye punch for the eye.

A rounding hammer is used to draw out the main.

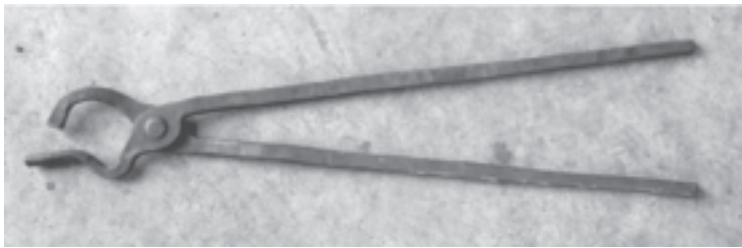
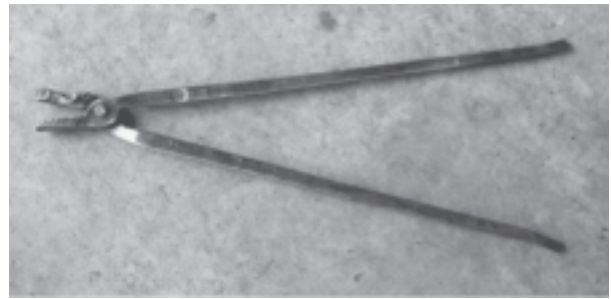
The main can be textured either with a chisel or a hammer with a sharp pein.



Trade Items at July Meeting



Dragon head tongs by Pat McCarty.



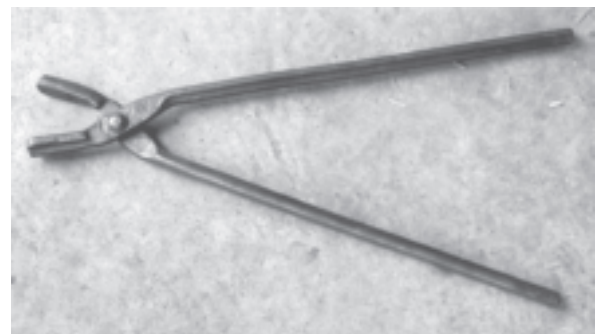
Don Nichols



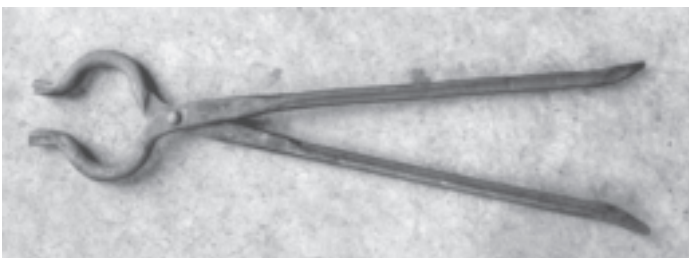
Isaac Lancaster



Ken Jansen



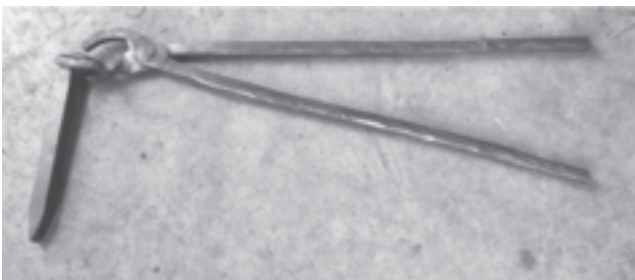
Ed Harper



Bob Ehrenberger



Michiah Lancaster



Seth Lancaster

Don Nichols' tong demonstration

By Bob Ehrenberger

Don has been making and selling tongs made from RR spikes. He says that the medium carbon gives them enough strength to be useful without the risk of becoming brittle. For his demonstration, he used the power hammer to make the first half, and then I struck for him while he made the second half.

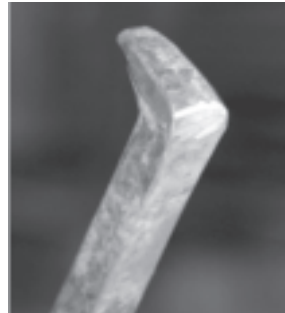
1) Trim the sides of the head to avoid the chance of a shunt developing.

2) Flatten what's left of the head and make it into a straight bar.

3) Draw out the section that is going to become the jaw.

4) Section off the material that will become the boss (mating joint). It transitions from the jaw into the boss on one side (half face blows on the near edge) and then from the boss to the rein on the other side (half face blows on the far side). This creates kind of a step affect.

5) Flatten out the boss to create the mating surface. Don always has the jaw on the far side when doing this, so both halves have the same side with the flat smooth surface.



6) At this point, the working end is roughed in. He turns the spike around and draws out the reins. Most of the work for this is done either on the power hammer or with a striker.

7) The reins are then cleaned up and straightened by hand at the anvil.



Tongs demo continued....

8) The top jaw is shaped.

9) The jaw is trimmed to the right length. (not shown)

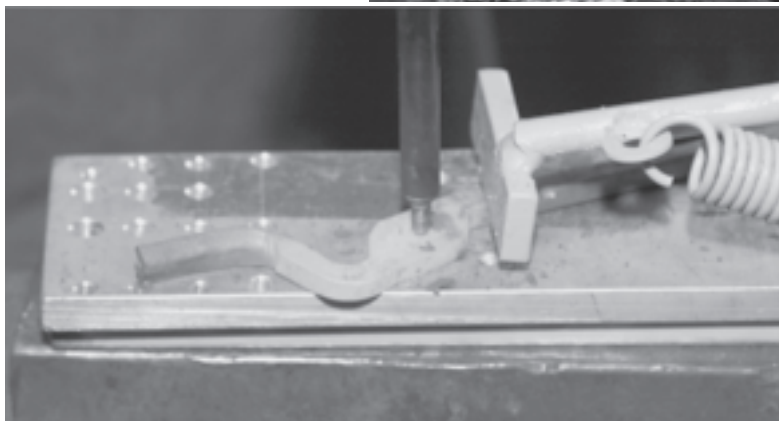
10) The end of the top jaw is split and opened to a V shape.



11) The bottom jaw is shaped and flattened out. (not shown)

12) The bottom jaw is then V'd using a special jig. Don said that sometimes instead of V'ing the bottom jaw, he sometimes welds on a piece of angle iron.

13) The rivet holes are punched using a special aluminum plate for his hold down tool and a special punch that has a shoulder to keep it from going in too far.



14) After riveting, the jaws and reins are adjusted for alignment.



The finished tongs.

Pat McCarty Wizard Demonstration

By Bob Ehrenberger

Pat has been making wizard heads as long as I have known him. He was president of BAM when I joined and would frequently make wizard heads either before or after our meetings. I hadn't seen one done for a while and thought it would be new and interesting for our newer members. Pat says that he tries to avoid the high carbon RR spikes (the ones with HC on the head), though you can't always make out the markings and some spikes are harder than he expects.

1) Pat has made a special spring tool for making the nose. The treadle hammer is useful for this, make sure you flip it over a couple times so the nose comes out in the center.



2) Once the nose is started, you can use the tool to pull it out further.



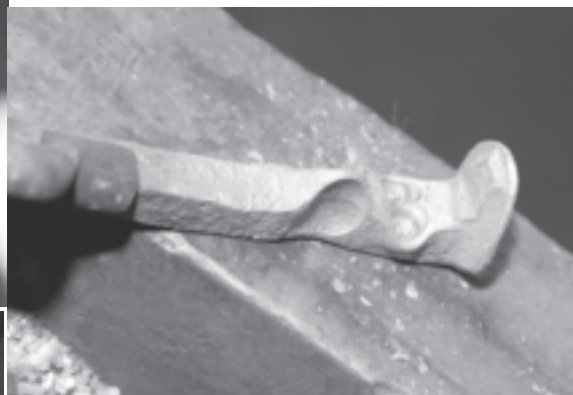
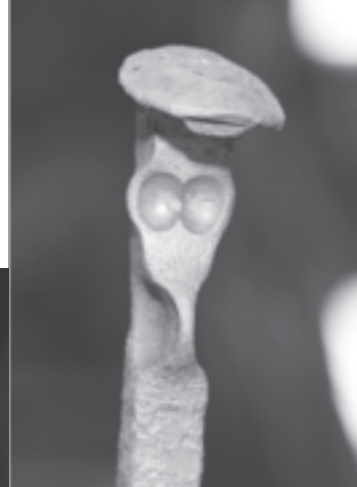
3) The eyes are started with a small center punch and then enlarged with a ball end punch. You can move them around a little at this stage before they are too deep. Be careful not to get too close to the edge and have a blow out.



4) Once the eye sockets are the right size, make the pupil with a hollow end punch.



5) Finally add eyebrows with a curved chisel.



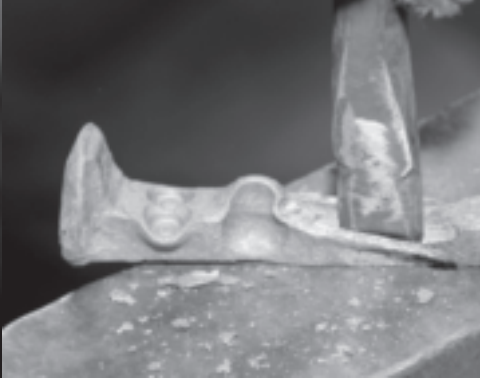
Wizard demo continued...

6) Like with the eyes, the nostrils are located with a small center punch, and then enlarged with a larger center punch or a small ball punch. The spike is backed up with a V block in the hardie hole.



7) Lay out the location of the mustache, and texture it to look like hair.

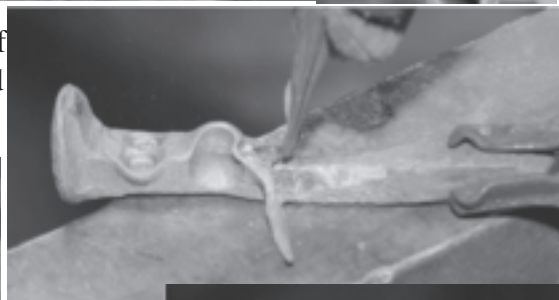
8) Cut the mustache loose, file or sand off the rough edges left from cutting.



9) Flatten a small section where the mouth will be.



10) Punch mouth, it can be any one of a variety of shapes, curved up, curved down, round, tear drop, etc.



11) Texture beard with a chisel to look like hair.



12) Shape the mustache with scrolling pliers. Make sure they are hot, but be careful not to burn them.



Finished wizard head.



JC Campbell Addition Update

Last week was blacksmith work week and the Timber Framers Guild erected the frame for the Addition to Folk School Blacksmith Shop.

I will attach a few photos of the work. More photos or a link to them will be put on the Folk School web site soon. I will try to send you the link.

We decorated the steel boxes that hold the base of the 12" x 12" timbers in place on the concrete floor. We recognized some of our recently deceased, long time instructors by carving their touch marks and names on the 4 sides of one box. Doug Hendrickson, Vance Baker, Gavin Harris and Bert Smith.

The Folk School needs to raise more money to finish the shop and they have started a "Buy a Beam" program. Contribute \$1000 and a beam can be named for you or the group who contributes the money. Check the school website.

The large anvil is on the creek side main entry.

Clay Spencer



*Here is a picture of the gate Doug Knight made in my shop for the Missouri Folk Arts program.
Thanks, Pat McCarty..*



*Above, Texturing tool made by welding three pieces of re-bar to a flat plate. Below, a sample of what a hot bar looks like after it is driven into the tool under the power hammer.
(on display at Ned's meeting)*



Philip Simmons

(Charleston , SC June 22, 2009) It is with deep sorrow that we announce that Philip Simmons, America's premier blacksmith, died on June 22, 2009, at Bishop Gadsden Retirement Community. Philip moved to Bishop Gadsden in the spring of 2008 and lived comfortably surrounded by a caring nursing staff and many friends and family. Philip died peacefully. He was 97.

Born on June 9, 1912, on Daniel Island, South Carolina, Philip was reared by his grandparents. At age 8 he was sent to Charleston, via ferry, to live with his mother on Vernon Street . He was enrolled in the first class at Buist Elementary School (now Buist Academy). While walking to and from school, young Philip noticed the ironwork and became intrigued with it. The neighborhood was a Mecca for craftsmen who serviced the waterfront businesses. He began visiting the blacksmith shops, pipe fitters, shipwrights, cooper, and other craftsmen in the area. However, the sounds of the blacksmith shops interested him the most.

Philip Simmons apprenticed under the blacksmith Peter Simmons (no relation), who ran a busy shop at the foot of Calhoun Street. Here, Philip acquired the values and refined the talents that would sustain him throughout his long metal-working career.

Moving into the specialized field of ornamental iron beginning in 1938, Simmons fashioned more than five hundred decorative pieces of ornamental wrought iron: gates, fences, balconies, and window grills. The City of Charleston, from one end to the other, is truly decorated by his hand.

In 1982, the National Endowment for the Arts awarded him its National Heritage Fellowship, the highest honor that the United States can bestow on a traditional artist. This recognition was followed by a similar award from the South Carolina State Legislature. Simmons was inducted into the South Carolina Hall of Fame in Myrtle Beach , SC , on January 31, 1994. The Order of the Palmetto , the highest award given in the state, was presented to him by Governor David Beasley in 1998. In May of 2001, Philip Simmons

received the Elizabeth O'Neill Verner Governor's Award for Lifetime Achievement in the Arts.

Pieces of his work have been acquired by the National Museum of American History as well as the National Museum of African American History and Culture, the Smithsonian Institution, the Museum of International Folk Art in Santa Fe , NM , and the South Carolina State Museum , Columbia , SC. In 1989, the vestry and congregation of his church (St. Johns Reformed Episcopal Church, 91 Anson Street in downtown Charleston) dedicated the grounds of the church to develop a commemorative landscaped garden as a tribute to his exceptional mastery of wrought iron and in recognition of his inspirational character and self-assurance.

Philip is survived by Lillian Gilliam, daughter; Philip Simmons, Jr., son; Rebecca Comings, sister; 16 grandchildren; 17 great and 23 great grandchildren, plus many nieces and nephews.

The celebration for Mr. Simmons life among us will be announced tomorrow. The burial service will be private. Memorial donations may be sent to the Philip Simmons Foundation, Inc, P.O. Box 21585 , Charleston , SC 29413-1585 , or The Philip Simmons Home and Workshop Fund, Coastal Community Foundation, 90 Mary St. , Charleston , SC 29403 .

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Mike Linn
Artisan Blacksmith
McCalla, AL

Opportunities missed: When I was new in blacksmithing and visiting a friend in S.C, he offered to take me to meet Phillip Simmons who lived nearby. Regretfully I declined, what a missed opportunity. Later when visiting Charleston, I saw and admired much of the work of Phillip Simmons. Since attending the Southeaster Blacksmith Conference, another member of the S.C. association has reminded me occasionally that Phillip was aging and time was of the essence if I wanted to visit him. Again, I missed an opportunity to meet one of the masters of our craft. The second friend told me that he had once gone over to Phillip's shop to ask a question about a project that he was working on. He recounted that at that time, Phillip was in mid 90's age wise and sat down on the concrete floor with chalk in hand and drew the project and his recommendations on the floor.

Those that knew Phillip Simmons describe him not only as a master blacksmith, but a first class gentleman.

Ned Digh

ABANA affiliate newsletters On-Line

The following is a list of most of the blacksmithing groups that have a Web site that offers a “Current” Free Newsletter whether it is monthly, bi-monthly, four times a year or twice a year, that can be downloaded without having to join the group.

1. *Balcones Forge*
www.balconesforge.org
2. *Blacksmith Association of Missouri*
www.bamsite.org
3. *Blacksmith's Guild of the Potomac*
www.bgop.org
4. * *Central States Metal Artisans*
<http://gpba.abana-chapter.com/>
5. *Florida Artist Blacksmith Association*
www.blacksmithing.org
6. *Kentucky Blacksmiths' Association*
<http://ky.abana-chapter.com/>
7. *New Jersey Blacksmith Association*
<http://njba.abana-chapter.com/>
8. * *Northeast Blacksmiths Association*
www.northeastblacksmiths.org/
9. *Old Dominion Blacksmith Association*
www.odbsa.com
10. *Southwest Artist-Blacksmith Association*
www.swaba-abana-chapter.org
11. *Tidewater Blacksmith's Guild*
www.tidewaterblacksmiths.com
12. *Western Reserve Artist Blacksmith Association*
www.wraba.com
13. *Vancouver Island Blacksmith's Association*
www.viblacksmiths.com

Fellow Blacksmiths-

I did a demo a few weeks back at the Ozark Natural & Cultural Resource Center on Highway 19 in Salem, Missouri. This is located on the main highway going to and from the National Scenic River Area just south of Salem. There is a large amount of traffic through there each week during the summer.

I had a long talk with the director of the center and she would like to hold a four to six week display of traditional blacksmith, bladesmith and related items in late July through August 2010.

The building has a security system and display cases for the small items.

It will be possible for you to get sales and orders for your work. Business cards and information for possible sales can be included in your area.

There is staff on duty at all times while the center is open.

The idea of the show is hand made items related to cooking, camping, lighting, knives, musical, hardware, wagon, farming and horse or mule. (If possible, black powered guns that have been hand forged)

For the farming and wagon items, they need to be kept to small displays due to the size of the room.

No full size wagons please.

The director is already working on this show and will include other craft displays also. If spouses do weaving, spinning, broom making, soap, etc the director would be interested in talking to her also.

If interested, please contact me:

Don Birdsall

573-364-7223

Email donbirdsall@embarqmail.com

Or contact the Director at:

573-729-0029

Web address oncrc.org

Email oncrc@salemмо.com

Thank you

Don Birdsall

ABANA Conference News
Demonstrators Announced
July 2009 - Vol. 1 Issue 2

The 2010 ABANA Conference Committee is pleased to announce the first group of confirmed demonstrators. We are working behind the scenes to secure additional demonstrators to round out the conference.

JOE ANDERSON (of NC) will do one demo on forged kitchen ware and 2 sessions on sculpture

MARK ASPERY (of CA) will do tool-making demos.

GERALD BOGGS (of VA) will do a demonstration; subject TBD.

DAN BOONE (of VA) will do 2 demo sessions on dragon's heads and his other products

DAN AND JUDY BOONE will do a round table talk and question session on how they market their wares.

PHIL COX (of MO) will do a session "power hammers - getting the most out of them" including both mechanical and air hammers, he will also cover tips on checking used hammers and rebuilding them

DAN NAUMAN (of WI) will demonstrate repoussé

DARRYL NELSON (of WA) will do a demonstration forging of animal heads.

STEVE PARKER (of IL) will demonstrate power hammer tools and forging.

TOM LATANTE (of WI) will lead the "Meticulous Metalsmiths" forging a lock during the conference.

MARK ASPERY will run the "Green Coal" teaching station, with DARRYL NELSON and GERALD BOGGS.

AMIT HAR-LEV and TSUR SADAN (of Israel) demo topic has not been confirmed

Gallery Open to Public
"Green Coal" Forges
Memphis Style Banquet
Top Demonstrators
Tailgate Heaven
Vendors for the Craft
Lectures & Workshops

"We will preserve a meaningful bond with the past. We will serve the needs of the present, and we will forge a bridge to the future. Function and creativity is our purpose. Our task is great and so is our joy."

Dimitri Gerakaris, 1973



AgriCenter
International

Memphis
Tennessee

June 2-5 2010

Log on ABANA.org website and sign-up for Constant Contact emails, email address in the box at the bottom of the home page, click on "Get ABANA Email". You will receive periodic ABANA 2010 Conference News.

The ABANA 2010 Conference will be held at the AgricCenter International in Memphis, TN. Located at 7777 Walnut Grove Road, from I-240, on the east side of Memphis, take Exit 13 and drive east on Walnut Grove Road approximately 4.2 miles to Farm Road and turn south, go .1 mile.

Buy, Sell, Trade

Individual Classified ads

For Sale: Steve O'Grady in Bloomfield, Iowa just finished rebuilding a 25# BOSS power hammer and is looking to sell it. \$2000 FOB at his shop. 641-208-9605 Iforge@netins.net He has digital pictures he can e-mail on request. This hammer was set up at conference and runs real nice.

For Sale: 50# little giant trip hammer, that works off a Jack drive system. It is in great condition. It has dual adjustable toggles, flat and drawing dies. It is located in St. Louis. \$3000.00 Bobby Jeffers 314-304-0915

For sale: Champion forge and blower co. hand crank drill press. P. Henderson My cell # 660-287-4609

For Sale: Small Coal forge, with electric blower. \$100.00 obo. Mathias Penn, Ava, MO. 417-683-9000

For Sale: 25lb Little Giant, new style dies, runs good, new 1.5hp motor. \$2500 Nixa Mo area, Alex Harrison 417-838-3573

For Sale: One new style 50 lb. Little Giant power hammer with a broken flywheel. One transitional style 100 lb Little Giant hammer in good condition. One Johnson gas forge. The fifty pound hammer is \$1500.00 you pick up. The hundred pound hammer is \$2500.00 you pick up. The Johnson gas forge is \$200.00 you pick up. Timbo, AR Call Jim Crowell 870- 213-8558

Commercial / Resource ads

Services:

Beverly Shear Blades Sharpened. Remove blades from shear and ship to Clay Spencer, 73 Penniston Pvt. Drive, Somerville, AL 35670 \$35 plus postage, additional cost for deep notches or blades previously sharpened at angle.

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

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

Roller Blade Treadle Hammers (Clay Spencer design) for Sale or Workshops led to build hammers. Bob Alexander, e-mail to scruboak4@netzero.com, or call 636-586-5350.

Information / Education

Tong Making Class-Weekend Course 4 people per class - \$125 per person Contact: Charles Comstock Rt.1 Box 20, Deerfield, MO. 64741 (417) 927-3499

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

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.

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**) **video library.** 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

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.

Ray Clontz Tire Hammer Plans by Clay Spencer

Price is \$30US including postage to US and Canada, \$32US to other countries. Send check or money order 73 Penniston Private Drive, Somerville, AL 35670, Also, lead workshops for chapters or groups to build 15 to 20 hammers. phone 256 498-1498, cell is 256 558 3658, email is clay@tirehammer.com

New England School of Metalwork

www.newenglandschoolofmetalwork.com
1-888-753-7502

Blacksmithing classes, Arrowhead Forge, Buffalo, Wyoming.
David W. Osmundsen 47 N. Lobban, Buffalo, WY. 82834
www.arrowhead-forge.com

Buy, Sell, Trade, Continued

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. Contact: Bob Tuftee, 3855 Aspen Hills Dr., Bettendorf, IA 52722; bobforge@hotmail.com; (563) 332-4800.

The **Ozark School of Blacksmithing** still has tongs for sale. We are also importing the Sayha air hammer from Turkey. For more info on the tools contact Bob Alexander at 636-586-5350 or order through the school web site: www.ozarkschool.com

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. 1-678-360-3521 or LBrandForgeCoke@aol.com.

D.L. Schwartz Co. **Blacksmith and Farrier supplies**.
2188 S. US 27, Berne, In. 46711, 1-800-955-3064

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 a full line of blacksmithing equipment. We ship and accept Visa and Mastercard.

Persimmon Forge **PEDAL HAMMER** sit down treadle hammers for sale. Contact Dave or Betty Edwards by e-mail at djedwards@cableone.net, or write us at 3008 Hacienda Ct., Emporia, Ks., 66801, or call us at (620) 343-1947. For more information, go to www.persimmonforge.com and click on both "Pedal Hammer" and "Video Demo of Pedal Hammer."

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

Chile Forge- Next generation **gas forges**
www.chileforge.com
David Starr 520/360-2141

USA Dealer for **REFFLINGHAUS ANVILS**, 77 to 1250 lb. European 2 horn with or without upsetting block & side shelf. Over 100 sizes and styles available. Guaranteed face @ HRC59
Dick Nietfeld www.blksmith.com Phone (308) 384 1088

Wanted:

Help Wanted: The 2010 conference plan has begun. I need input on demonstrators, if you have any suggestions or would like to volunteer, feel free to e-mail me at acornridge3@yahoo.com Thank You, Joe Hurley (conference chairman)

The Missouri Dept of Conservation is having an outdoor expo July 25 at Busch Wildlife area. They are looking for participants and allow demonstrations. It might be a neat place to setup a demo on behalf of BAM. I am open during that time period but if anyone is interested, they can contact me. I have the registration form. There will be no sales allowed but as a benefit to BAM, it might be a good deal, as well as maybe making some contacts or taking some orders while you are there. If you are interested, please contact me and we can get something setup.
Ken Jansen

Demonstrator List

Fred Weisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc.
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 will get you signed up.



Story board that Don Nichols put together to show how to make a pair of tongs from a pair of RR spikes.

Need Coal ?

Check on Availability

Coal Captain: Bob Alexander



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

5. Jeff Willard, (417) 742-2572
P.O. Box 416,
Willard, MO. 65781

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

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

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

7. Joe Hurley (660) 379-2365
Rt1 Box 50
Downing, MO. 63536

4. Jerry Rehagen, (573) 744-5454
390 Bozina Valley Trail,
Freeburg, MO. 65035

8 Paul Lankford, 573-473-7082
25849 Audrain Co. Road 820,
Mexico, MO 65265

Price \$17.00 per bag BAM members, \$18.00 per bag Non-members, \$14.00 per bag at Bob Alexander's
Coal keepers earn \$4.00 a bag. NOTE: PRICE INCREASE

A. Non BAM coal. \$15.00 per 50#s. The coal is located in Camden Point, Mo. I can be reached at 816-992-3352
Thanks, Vernon Adkins, adkinsfarms@gmail.com

B. Non BAM coal \$.40/lb check \$.35/lb cash bring your own containers. Tim Johnson Springfield, MO 417-886-8032

Upcoming Events

- August 13-23 - Missouri State Fair Sedalia, MO contact Kent Harbit (660)-647-2349 to volunteer
- September 12 - BAM meeting, Matthew Burnett, Cameron, MO (816-575-2798) Trade Item Leaf
- September 19 - Newsletter Submission Deadline**
- October 1 - Application deadline for November Scholarship awards.
- November 7 - BAM meeting Bob Evans Liberty, MO 816.781.5717 Trade Item - bank line fishing pole holder
- January 1 - Application deadline for February Scholarship awards.
- January, 2010 - BAM meeting, Don Nichols and Kent Harbit Sedalia, MO
- March 27, 2010- BAM meeting, Boy Scout Camp
- April 1 - Application deadline for May Scholarship awards
- April 28 - May - 2 **BAM Ozark conference**, Sedalia, MO contact Joe Hurley at acornridge3@yahoo.com
- May 2010 - BAM meeting Ham's Prairie, MO Ned Digh (573)-642-9502
- June 13 - July10 2010 - Boy Scout Camp, Metal working merit badge classes
- July 1 - Application deadline for August Scholarship awards.
- July 10 2010- BAM Meeting Bob Ehrenberger, Shelbyville, MO. (573)-633-2010 Trade Item TBD-

Note: For all MTS (Mobile Training Station) classes, contact Don Birdsall for information (573)-364-7223

Notice.

Connie Huff, wife of BAM member
John Huff, passed away on July 18.

BAM member Bill Tannenberg of New Freedom, Wi. made the monument to the right to be placed at the grave site of his wife Deanna, who passed away in June of 2008. The monument stands 6 foot tall and weighs over 900 pounds.



New Members

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

Banka, Dennis
10959 Nieman Road
Overland Park, KS 66210
913-339-6933

Bishop, Steve
320 S Buckner-Tarsney Rd
Buckner, MO 64016
stevebishop@live.com
816-650-3588

Lankford, Tyler
25849 ARC 820
Mexico, MO 65265
tkl5146@moval.edu
573-581-8253

Wear, Sheila
2235 E Fritts Lane
Springfield, MO 65804
sheilawear@mac.com
417-883-2772

Barber, Chris
P.O. Box 982
Stockton, MO 65785
blackhawkgravelhauling@yahoo.com
417-276-5603

Breinin, Leo
1412 SE 7th Terr.
Lee's Summit, MO 64063
lmbea4@gmail.com
816-797-9315

Lutz, Larry
3205 Birch Road
Seymour, IA 52590
641-898-7342

Bequette, Jim
10329 Sansoucie Road
Cadet, MO 63630
deltoidal.icositetrahedron@gmail.com
573-436-0877

Ladas, Paul
6005 E. 323rd Street
Drexel, MO 64742
ladas@casstel.net
816-419-6622

Pope, Richard
28180 Parish Road
Marceline, MO 64658
richard-09-pope@hotmail.com
660-591-5845

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

Next Meeting: September 12 Cameron, MO.



Location:
Burnett Farm
Cameron, Mo.

Host: Matthew Burnett

Phone: 816-575-2798

Trade item:
Leaf

Food: Meal provided,

Directions:
Check a Missouri map to get
in the ball park.

Stinson Rd intersects Hwy D
at the Shoal Creek Bridge.

1 mile West on Stinson Rd.

1/2 mile North on
Winchester Rd.

© 2006 MapQuest, Inc.; © 2006 Tele Atlas