

# BAM

March-April 2007

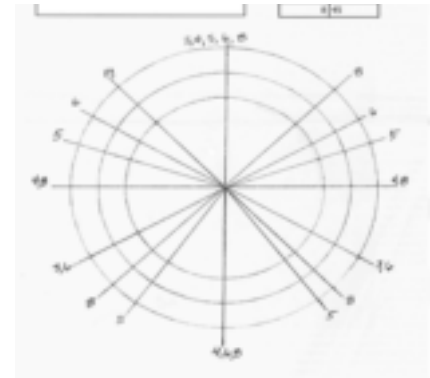


Crane Grate  
Alice James finished her 2005 Ozark Conference  
Demo piece

[www.bamsite.org](http://www.bamsite.org)

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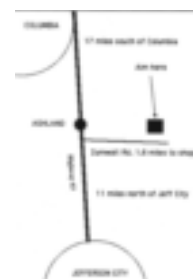
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**Newsletter of the  
Blacksmiths  
Association  
of Missouri**

*Volume 24 No. 2*  
**MARCH-APRIL**

**2007  
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Kirk Sullens

**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.

MARCH-APRIL 2007

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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.

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Primary ABANA Chapter Affiliation: \_\_\_\_\_

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Address: \_\_\_\_\_

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c/o Bruce Herzog  
2212 Aileswick Dr.,  
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I \_\_\_\_\_ hereby apply for membership in the  
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**SEND RENEWAL TO:**

**ABANA**

P.O. Box 816 Farmington, Georgia 30638

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**ABANA**

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

This has been about the coldest winter that we have had in the 20 years that I have lived in Missouri. At least from the first of the year on. The ground hog says we will have an early spring, I sure hope so, I'm ready.

With the March meeting being moved to my shop I had a chance to give it a good cleaning. Yes, that is the clean version that you all saw. If you haven't ever hosted a meeting you should consider it. In addition to having a good reason to clean and organize your shop, it gives you one meeting that you don't have to drive to. It also lets your spouse put a face with some of the members that you have talked about. Several of the spouses came to our meeting and Jan really enjoyed getting to know them as they spent time warming themselves by our big wood burning stove.

The conference committee hung around and had a planning meeting after most of you had left. They were trying to come up with boutique item ideas when I came in on them. Kirk was doing a quick sketch of how he makes a horse head hoof pick. (Did we mention that the Arabian Horse Club will be sharing the fair grounds with us?) Well, some of us weren't getting it and I suggested that he just go out to the shop and show us, since the fire was still lit. After running his sketch through the BAM scanner, we went out and Kirk did his magic. When Kirk was done, Ken Jansen showed us how he makes a quick three heat horse head. We took lots of pictures so you will get to share in both of these demonstrations later in the newsletter.

To update the e-mail problem that I talked about last time. It turns out that not nearly as many addresses were bad as we first thought. We now think that most of the letters bounced, not from bad addresses, but from servers that were down due to the power outages. Bruce said that he did receive several updates. He also said that

some of you sent him hand written letters, and he isn't sure that he got your address right. If you sent Bruce a hand written note, it would be a good idea to send him an e-mail from your home computer and he can get your address from the header. Bruce's e-mail address is: [bjherzog@msn.com](mailto:bjherzog@msn.com)

Stephen McGehee sent in his final installment on his scholarship report. His article on making a horse rasp snake is later in this issue.

Our own Jerry Hoffman has also set up a program where he is sharing some of his designs with the blacksmith community by opening them up to be published in the blacksmith newsletters. I'm not sure when I will run these, but this is a great resource for all the editors to draw



Julia Lee Rupp  
Granddaughter #4

on. If you are not familiar with Jerry's work, you are in for a treat. Check out his booth at the Ozark conference.

I am including two articles on dividing a circle that I have gleaned from other newsletters. I have used both of these methods and they both work. It kind of depends on the project as to which one is most appropriate. They are both good to have in your bag of tricks.

As some of you know, part of the reason that we had the South Fork

Regulators provide the food for our meeting, was that our daughter Tiffany was expecting, and her due date was March 15, two days before our meeting. Jan was thinking that she may have to take off and assist with a newborn baby, and didn't want to have to worry about providing for the meeting. Well the baby came this morning, March 20. With the addition of Julia Lee Rupp, we now have our fourth grand daughter. I think that my son-in-law has about given up on getting a son to help him with his construction business. I do think that they will keep on trying.

Don Birdsall had a nice article about him and the MTS (Mobile Training Station) program published in "The Kaleidoscope", a weekly Rolla newspaper. I wouldn't be surprised to see a lot of blacksmithing activity pop up in that area as a result, way to get the word out.

I talked to Don Asbee about his upcoming meeting. He said that he has finished the big air hammer that he was working on at his last meeting (which he has named the super smacker) and will be demonstrating it. He has also made a new tool, a twisting machine capable of twisting 1 1/2" stock. He will be demonstrating the twister as well.

Don has one of the best set up shops I have ever been in. If you don't come away from this meeting with ideas on how to improve your own shop, you just aren't trying.

I made a set of spurs for Daniel after the November meeting. I got as far as Phil took his demonstration, but I didn't get a good look at the piece that Phil makes to attach the straps. If anyone got a good picture of this piece or of his finished spurs, I would appreciate getting a copy. If I can finish this project I'll publish a follow up article to help out any one else that got stalled at the same place. Thank You

The next Newsletter submission deadline is May 19.

# Minutes BAM meeting

3/17/07 By Peggy Williamson

Held in Shelbyville, Mo.

A big THANKS to Bob & Jan Ehrenberger for hosting the meeting and to the South Fork Regulators for providing the food.

Next meeting, May 12, Hartsburg, MO. Hosted by Don Asbee. The trade item is a door knocker.

Financial Report- Bruce reported that our membership is 545 which is down from 561 last month. A year ago we had 598, so membership is slipping. Bruce also said that he is adding your renewal date to your address on the newsletter label to make it easier to remember to renew. You will still get a renewal card as well.

Kirk said that BAM has a free admission pass to Forging on the River in Memphis. He asked if anyone was planning on going that could use it.

Kirk encouraged us to all attend the 25th annual hammer-in at New Salem Ill. This will be the last one that Jim Patton will host. Information for this event is on the web site.

Larry Hults gave a conference report. He said that things are on track for the conference in Sedalia. We still need a couple demonstrator assistants. We also need lots of stuff for the auction and boutique. There will be two hammer-ins to make boutique items.

1st Ken Jansen on March 31

2nd Don Birdsall on April 7

Contact them for more information and directions.

Ned Digh said that the tire hammer workshop for 2007 will be June 8-10. He said that we still have room for a few more. More details on page 25.

Don Birdsall talked about the MTS (Mobile Training Station) program. There is information on the BAM web site. The next class with openings is May 19. Contact Don if you are interested.

We are already signing up workers for State fair 2007. Contact Peggy Williamson if interested.

Bob Ehrenberger said that he has a friend that is looking to hire blacksmiths for production work (full and part time). See Help Wanted ad if you are interested.

There is a new coal supplier in the NW corner of the state. This is a private enterprise where he is buying the coal himself and then reselling it to fill a gap in the BAM coal supply coverage. Check the coal map.

Kirk talked about the possibility of BAM hosting the 2008 ABANA conference. As of right now ABANA has canceled their 2008 conference because they couldn't work out the details with the New York group. If BAM steps up and takes this on it will not be an official ABANA conference, but will have the support of ABANA mainly through advertising in their publications. They may also sponsor one of the demonstrators. Kirk said that it is important to not break the two year cycle on these international conferences. A possible theme for the conference would be "For the Love of the Art." This will be discussed and voted on at our conference in May.

Meeting adjourned.

## Trade Items were made by:

Don Nichols, Don Anders, Mark Lawson, Matthew Burnett, Ned Digh, Bob Ehrenberger, Karen Hamerschmidt, Esther Digh, Richard Kamp, Ed Harper, Ken Jansen, and Don Birdsall.

## Iron in the Hat items donated by:

Bob Ehrenberger, Esther Digh, Ed Harper, Don Nichols, Ned Digh, Larry Hults, Don Birdsall, John Huff, Michael Smith, John Sherwood, Matthew Burnett, and John Hough



Chuck Wagon used by the South Fork Regulators, Cowboy reenactors and single action shooting group.

# A Word From El Presidente

by Raoul (Kirk Sullens)

Well, BAMer's, the last couple of months have been interesting, to be sure! You all remember the Chinese curse, "May you live in interesting times." Many of you already know about the ABANA business that's going on, but for those who don't I'll try to fill you in on the parts that are important to BAM.

ABANA announced at the conference in Seattle that the next conference would be in upstate New York. However, logistics for the site proved too costly and alternate sites didn't meet the approval of the New York group, and no one stepped forward to be the conference chairperson. For reasons that I won't go into, ABANA decided to cancel the 2008 conference. Even though they knew BAM is willing to step in and host, they decide it was in ABANA's best interests to wait, and try again in 2010. I know that when the time comes, BAMers will be on the front lines helping, just as we always are.

In the meantime, that gives us a big break in the rhythm of biennial conferences, and a very long stretch between some tremendous learning and networking opportunities, and a long time between seeing old friends and making new ones. What I'd like to propose, is that BAM step in to take up the slack, using our new regional conference venue instead of the usual university setup, in order to make an international conference that is much more affordable to a much larger percentage of ABANA's membership.

I want to stress that this would NOT be an ABANA conference, although I've gotten pledges of support from the ABANA board, through Clare Yellin, ABANA president, and Eric Ryser, board member. This support was offered in a very positive way, and I'm happy and grateful to get it. I've also had very positive phone conversation and e-mail exchange with Dorothy Steigler and Elizabeth Brim, both board members. I'll outline what that support is at our conference in May, and try to have answers to some questions that have already come up at that time.

Stepping in this late in the game will be tough, and we'll really have to hustle to accomplish our goal, but BAM is full of tough, hard-working people with drive and determination. Just look at what BAMers have done at past conferences! Putting off a vote until the Ozark Conference gives BAM a chance to examine the question and look for problems, and to discuss it among ourselves before it comes to a decision. It also allows the largest percentage of our membership to be present and participate in the decision-making. It puts us a month further behind, but it's worth the wait for that last point alone. If BAM chooses not to host an international conference, I'll understand, but this is a challenge we can meet, and excel at if we only try.

Oh, yeah. Unless someone else would like to step up, I'm willing to chair or co-chair the conference committee. That'll be your call.

Before I forget entirely, I want to thank the Ehrenbergers for hosting the March meeting on St. Patrick's Day. It was a wonderful, snowy day, filled with coal smoke and good conversation, and a great lunch cooked in Dutch ovens beside a real chuck-wagon.

Thanks, everyone, for making the last year of BAM presidency so easy. I know that the next one will make up for it.

El Presidente Raoul  
Aka, Kirk Sullens  
www.kirksullens.com  
(417)863-8628

# Meeting report 3/17/07 By Bob Ehrenberger

I was hoping for a little nicer weather for my meeting, but you get what you get. I had been so busy getting ready that when Robin Lightfoot of the South Fork Regulators called Friday night and said that snow was predicted, I could hardly believe it. I assured Robin that we would need his chuck wagon no matter what the weather. Even with a late in the year snow storm we had between 40 and 50 BAM members and 6 spouses show up in Shelbyville. The guys that brought the chuck wagon were real troopers (cowboys) and cooked a fine meal in a snow storm.

In the morning I did three demonstrations, herb chopper, courting candle, and a flint striker.



Forging the edge



Cleaning up the handle to blade transition



Heated to make final bend

Talking to the crowd

I cover making an herb chopper later on in the newsletter (pages 16, 17), so I'll just have a few candid shots of the process here. One point I would like to make is that I usually use 3/16" x 2" stock but I was out of that and used 1/4" x 2" instead. While it was only 1/16" thicker it was a lot more work, and if you don't have a power hammer you had better stick to the lighter stock.



Putting on beeswax while hot





## Meeting Report continued...

### Making a Courting Candle Holder By Bob Ehrenberger



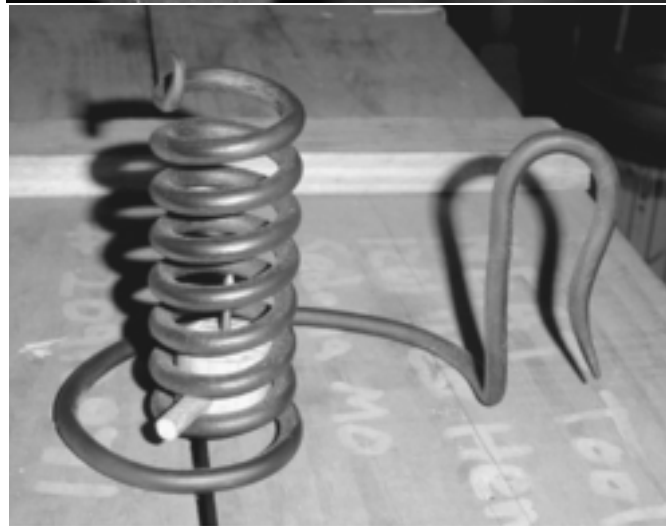
Winding jig is just two pieces of pipe with a handle to turn the inner pipe.

Start with 48" of 1/4" round. Mark one end at 18" to save material for the base and handle. Forge a fine point on the other end and make a small hook. Heat as much of the end as you can, cool the hook and start winding up on the jig. It will take about 3 heats to get it wound up to the mark. (18"). Heat the whole coil and use a right angled screw driver to get an even 1/4" spacing between the loops. Cool the coil and heat the other end. Flatten about 2" and form a handle. Heat next to the coil and form base over jig. Heat handle, bend up and align. Heat the whole thing and dip in oil tank to blacken. Burn off excess oil in fire, wipe down.



Base jig is a piece of 1/4" x 1" flat stock bent to the desired shape.

Wiping off excess oil after blackening.



Finished candle holder with wooden plug to raise and lower candle.



### Flint Strikers

I make flint strikers from old style hay rake tines which are about 3/8" round, simple high carbon steel. After flattening about 8", I make a fine taper on one end and then cut off so that after tapering the other end it will be about 9" long. Make a small curl and loop on each end. Heat face only to non-magnetic and quench the whole thing in water. Test with flint as soon as cool. If no sparks, repeat hardening process. ---Bob Ehrenberger

# Forged Horse Head By Kirk Sullens

If you want to learn to forge and carve animal heads for tool handles and other applications, there's no better primer than "Iron Menagerie", put out by the Guild of Metalsmiths. It's filled with solid foundation information. This forged horse is slightly modified from the one in the book, giving it what I feel, is a more realistic appearance.

**STEP 1:** Start with a piece of stock twice as wide as it is thick. This could be as small as 1/4"x1/2", or 1"x2", or as big as you want to forge, as long as the proportions are the same. I've found that a good size for horse-head hoof picks is 3/8"x3/4". Begin over an anvil corner with some radius and shoulder a length equal to 1/2 the thickness of the bar down to roughly square. A little bigger is OK, but smaller is probably not. This will be the nose/mouth end of the head.

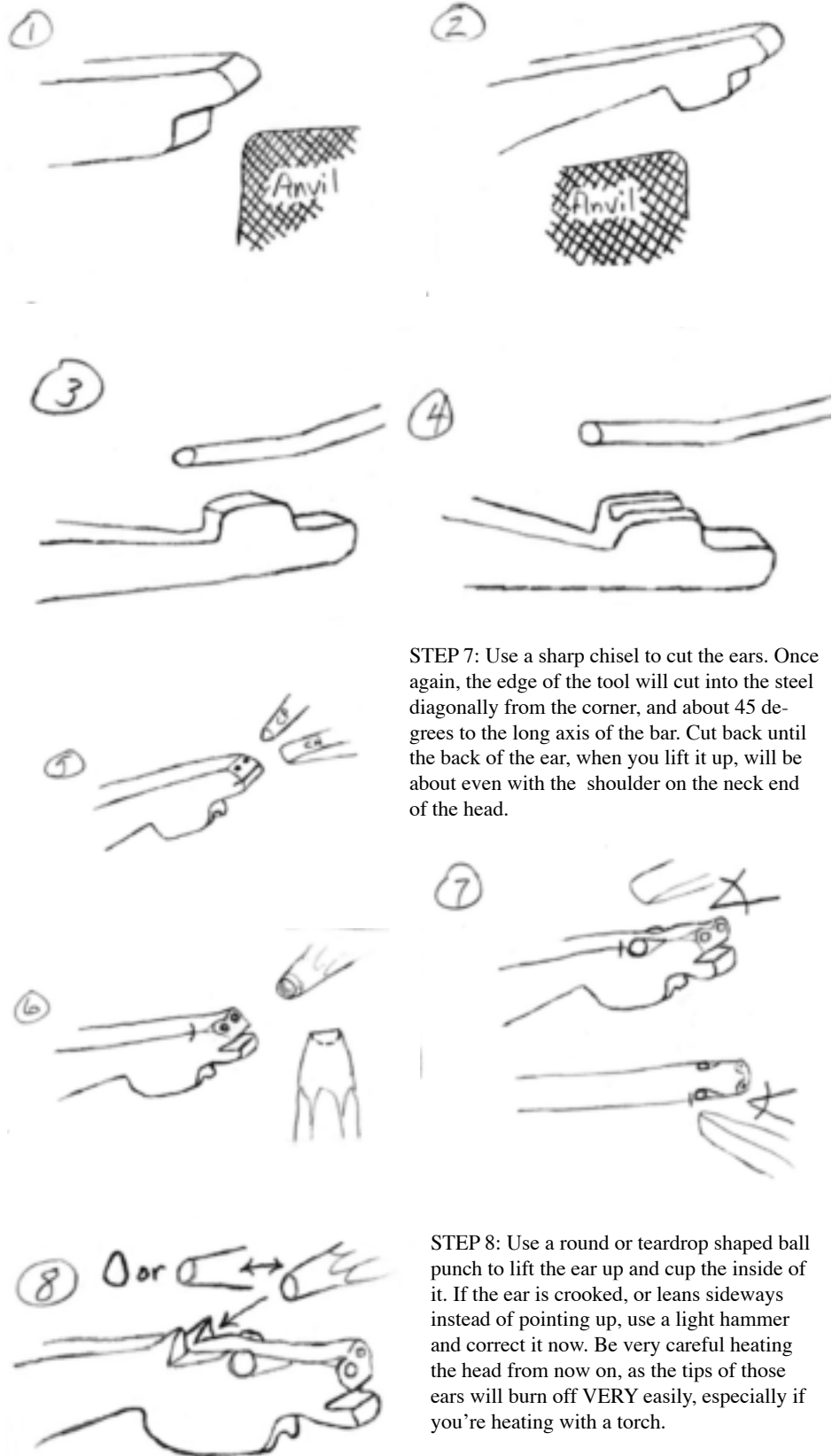
**STEP 2:** Leave a length about equal to the width of the bar untouched, then forge the neck section over a radius on the far edge of the anvil. Leave this slightly more than half-width, and taper it into the full width over about 2" or so.

**STEPS 3 and 4:** Turn the piece over with the shoulders upward, and fuller the full-width section between the shoulders lengthwise. I use a piece of round stock to fuller, and proportion it to the size of stock I'm using for the head. For 3/8"x3/4", I use 1/4" round to fuller. For 1"x2" I'd use 5/8". This makes the hollow spot that horses have under their jaws, where many of them like to be scratched.

**STEP 5:** Heat the nose tip and put the head in a vise. Use a blunt centerpunch to make the nostrils, and a sharp chisel to cut the mouth. The center-punch marks should be near the upper corners, but not so near they tear the corners out when you hammer in the nostrils. Don't cut the mouth too deep. If it's not enough, you can always go back and do more later, but once it's cut, it's cut.

**STEP 6:** To make the eye, you need a special eye punch. To make your eye punch, use your preferred tool steel and make the end flat. Mark the center with a center punch and heat the end. Put the flat end of the punch on a ball-bearing, using the centerpunch mark to index the bearing in the center of the punch, and tap it down. Do this as many times as necessary to get a concave hemispherical hole in the end of your punch. Grind the excess material around the concave hole to make a chisel edge, then heat-treat suitably for the steel you're using.

Set your eye chisel at a diagonal into the corner of the bar, and at about a 45 degree angle to the bar's long axis. I find it easiest to tap the eye punch to make a mark while the steel is cold, so I can be sure I get the right spot when the steel is hot. Your set mark should be even with the shoulder nearest the nose, and you should forge the eye backward til you have a nice round orb that is just less than halfway back in the middle of the shouldered area. For the very last blows, I turn the eye punch almost perpendicular to the bar to give the impression of eyes looking sideways and not directly forward.



**STEP 7:** Use a sharp chisel to cut the ears. Once again, the edge of the tool will cut into the steel diagonally from the corner, and about 45 degrees to the long axis of the bar. Cut back until the back of the ear, when you lift it up, will be about even with the shoulder on the neck end of the head.

**STEP 8:** Use a round or teardrop shaped ball punch to lift the ear up and cup the inside of it. If the ear is crooked, or leans sideways instead of pointing up, use a light hammer and correct it now. Be very careful heating the head from now on, as the tips of those ears will burn off VERY easily, especially if you're heating with a torch.

Continued on next page...

## Horse Head continued...

STEPS 9 and 10: Heat the neck area (careful of the ears!) and quench the nose end almost to the ears, then place the nose in the vice, hardy hole, or any other thing that will give you leverage, and bend the neck into a graceful curve. If you don't quench the face, the bending process will mess it up.



STEP 11: To make the mane, use a sharp chisel to cut the neck from just behind the ears to almost the thick end of your neck taper. You should keep the face portion of the head off the anvil for this, so you don't crush or distort the side of it while cutting or drawing out the mane. Cut between 1/4 and 1/2 the width of your bar. If you cut too close to the edge, the mane will shear off when you draw it out; too close to the middle and you'll have trouble drawing the mane out long enough to cover the cut.



STEPS 12 and 13: Use something to open the cut so you can draw out the mane with a fine cross-pein hammer. I use a small ball punch to push the material far enough that I can hit it with the hammer. Hammer it with the pein parallel to the neck, and get it as thin and big as you can manage.

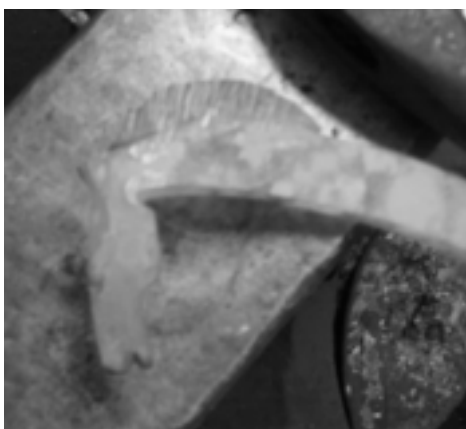


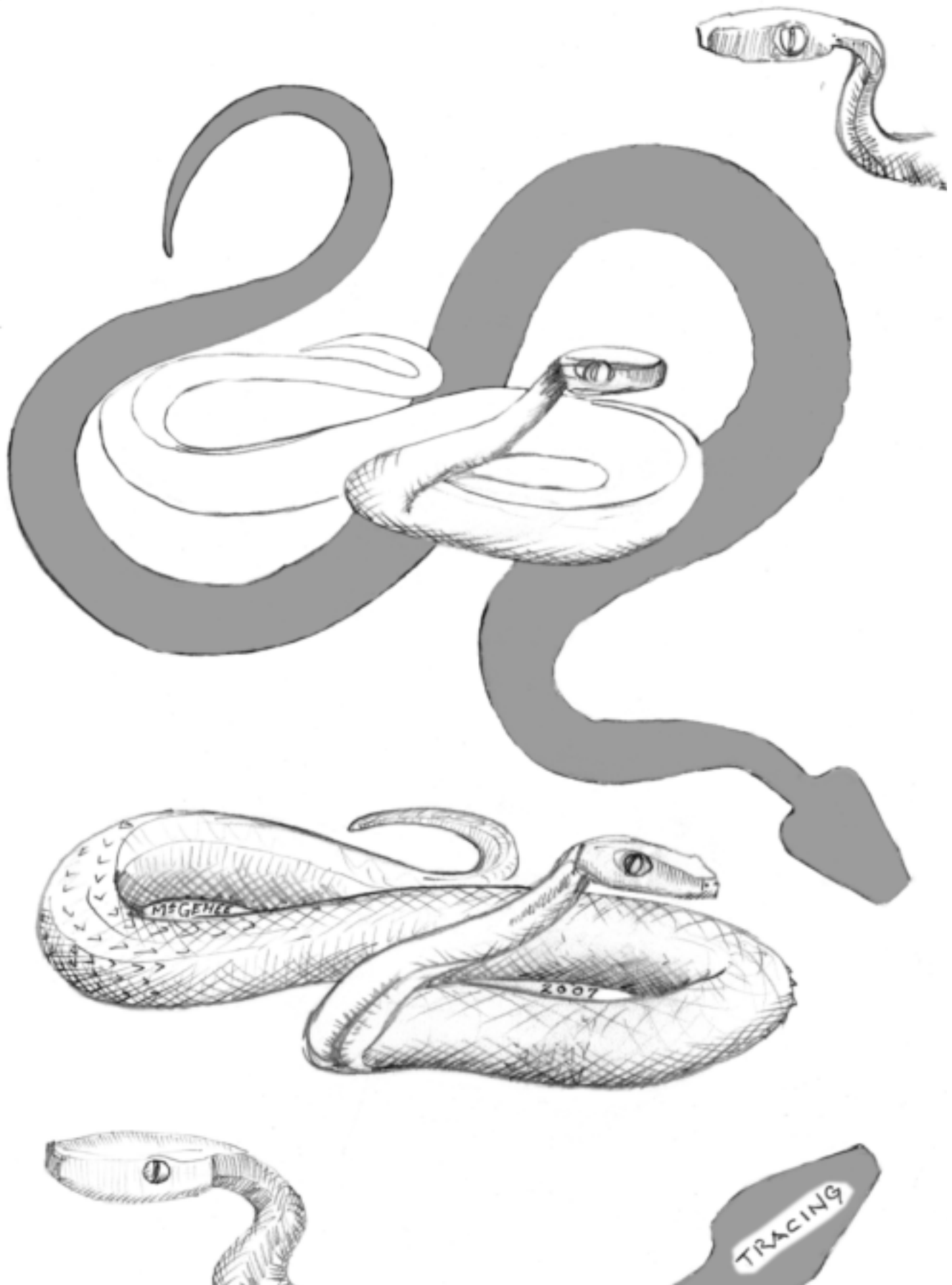
STEP 14: Turn the head over, and with only the mane on the anvil, hammer radially around the mane with the same fine cross-pein, to make hammer marks to represent the hair of the mane.



STEP 15: Now fold the hammered mane over the cut side of the neck, hiding the area the mane was cut from. If the other side of the neck still has enough corner left to bother you, file or sand it to a rounder contour and reheat to oxidize it to match the rest of the head. Because the mane stretched when you drew it out, there should be some folds in it, which is a good thing. Try to tap the front point of the mane over so it lays between the ears (as close to a forelock as you're going to get), and if the other end is sharp, which it almost certainly will be, be sure to tap it down so it touches the neck and won't cut anyone.

The horse head looks good whether you hand brush it or power brush it. Just apply your favorite finish and you're done!





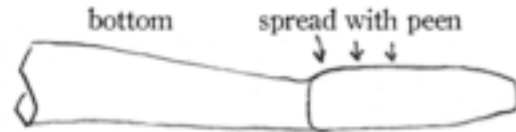
# Horseshoe Rasp Snake

Elmer Roush in his own shop

Across the road from the Whittacker shop,  
John C. Campbell Folk School 8-98



Elmer gets the rasps from 2 farrier associations. Using a power hammer and a gas forge, he makes these in batches of 6 at a time.

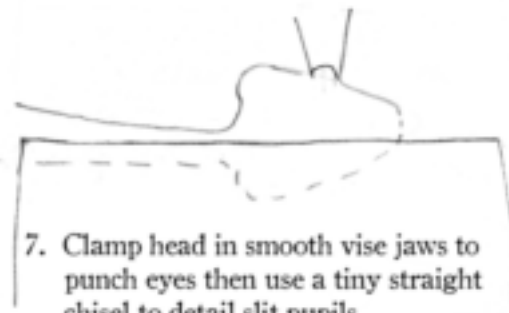
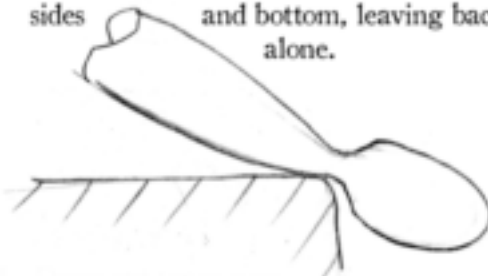


1. Using a 2" swage and the blunt peen of a heavy hammer, forge a tube. 2. Draw out the tail from the tang end.



6. Spread venom sacs from back with peen of hammer.

3. Neck down over anvil edge with the hand hammer-project stock 1" +/- . Neck down sides and bottom, leaving back alone.

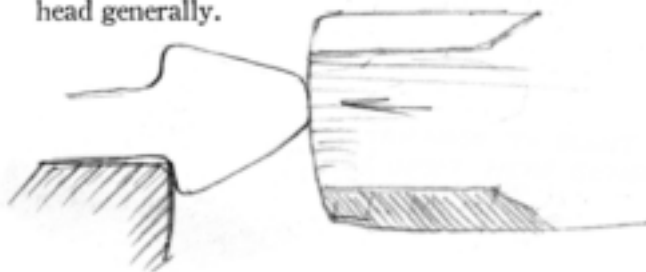


7. Clamp head in smooth vise jaws to punch eyes then use a tiny straight chisel to detail slit pupils.

4. Draw out taper evenly.



5. Tap nose to blunt end & upset head generally.



Coil in lifelike manner, study snake books for details. One of the chapters of Elmer's life was caring for reptiles in a traveling carnival's Snake House, where he had several years to observe their habits. It shows.



Stephen McGehee  
November 2006

# Patina Class

By Janet Sanders

Many thanks to BAM for making it possible for me to attend an exciting workshop on patination. Patination is a technique for changing the color of a material. The traditional blacksmith treatments using linseed oil, beeswax etc are all patinas. I think of patina as a color treatment which responds to qualities in the material rather than disguising it like paint. Although the finish of a piece of work comes last its the first layer of expression to meet our eyes when we look at an object -- so it can be really important.

The 2-day workshop, specializing in patinas for iron and steel, was taught by Ron Young. It took place at Holly Fisher's Smartshop in Kalamazoo, Michigan -- a gallery and teaching studio for blacksmithing, sculpture, and fabrication. Ron and Debbie Young run Sculpt Nouveau, a California based company designing, producing, and selling patina products. Debbie is a glass artist and ceramicist; Ron is a painter, sculptor and professional patinist; they were assisted by Bobbie McCann.

I have worked in bronze sculpture foundries and in this way knew of Ron Young through books he had written which are widely used and essential for casting. Ron is internationally known for his work in patination. During the 80's he ran Johnson Atelier, one of the largest art foundries in this country. The environment at Johnson was very exciting. Seward Johnson of Johnson & Johnson, supported the Atelier with an unlimited budget which enabled Ron to employ

the best professionals from around the world to cast sculptures of the most well known artists of the time --such as Henry Moore, Louise Nevelson, George Segal and many others.

Through his work at the Atelier and later at Long Beach State University, Ron developed a practice of experimentation and research to expand what was possible in patination. I remember first seeing his patinas on bronze sculpture and they were totally new and not like anything one had seen before. Now that



Ron Young demonstrating at the Steel and Iron patina workshop - at Holly Fisher's Smartshop in Kalamazoo, Michigan, October 2006

I work mostly with steel, I was excited to learn that there were patinas for ferrous metals and that Ron was teaching a workshop on them.

The workshop was great and deepened my understanding of patinas and materials. People attending were also really interest-

ing ranging from traditional blacksmiths, specialists from

different metal industries, sculptors, and fabricators. Ron taught through demonstration and practice sessions for all of us where we experimented and created all sorts of colorful and juicy surfaces! Information presented was in depth and covered safety, sources for equipment and materials, as well as techniques.

Here are some of the main ideas and materials:

Patinas are complex (but not necessarily complicated) they require trying and doing, plenty of practice, observing, developing techniques, discovering ways of working -- no different than working with iron!

Continued on next page...

## Patina Class ... continued

There are many patinas which can be used on exterior work, and some that are best for interior. Waxes or a special lacquer are used to stabilize patinas on iron and steel. Most often a propane torch is used to heat the metal which opens up the surface for the color to anchor to. Its important to use distilled water as tap water has chlorides in it which are aggressive rusting agents.

Traditional patinas are acid based and so for iron and steel its important to control this process and neutralize it so rusting stops and the metal is stabilized. Examples: Japanese Brown- a beautiful brown that is a stable form of rust and used on ancient Japanese metal work, Vista patinas which produce rust mixed with color- green, blue, yellow, etc., and gun blueing.

Ron has developed a whole range of non-acid based patinas which use oxides and pigments - and oxides, commonly found in primers, help prevent rust. These include anything you can imagine -- subtle or brilliant, translucent or opaque, all colors possible and hard to tell from traditional patinas. The oxides can also be combined with traditional patinas. A yellow oxide over gun blueing produces a subtle wash of color over black, increasing the depth of the surface.

MARCH-APRIL 2007

A product called Metal Coatings are powdered metal suspended in a medium which can be applied to almost any material. The Metal Coatings then create a metallic surface - copper, brass, bronze, iron -that can be patinated. Here are even more possibilities for different ways to work with metal or other materials.



**Most often, a propane torch is used to heat the metal which opens up the surface for the color to anchor to.**



Ron Young demonstrating at the Steel and Iron patina workshop - at Holly Fisher's Smartshop in Kalamazoo, Michigan, October 2006

Sculpt Nouveau also makes waxes that have special rust inhibitors in them for iron and steel. The waxes come in a range of colors which gives a subtle emphasis to form and a beautiful finish to the metal.

Ron demonstrated an ingenious and exciting patina which is readily available in

the local hardware. Use copper sulfate which is sold as root killer. It comes in crystal form - mix up a solution of 8 oz distilled water and 4 oz crystals. Then Ron uses a degreaser from Industrial Metal Supply- cleans the surface, wipe off, wet the surface again with the degreaser - and then spray or brush the Copper Nitrate on -- and behold instant copper plating takes place on your iron!

There is much more to say about patinas and the workshop - I'll leave the rest for when I demonstrate at a

meeting. Many thanks again for the generosity of the scholarship program.

# Three ways to make an Herb Chopper

By Bob Ehrenberger

When I had one of my regular customers request that I make her an herb chopper, I went back to an old copy of BAM (Jan-Feb 99) and found an article on it by Jim McCarty. Along with the article, Jim included some templates from Doug Merkel (found on the next page). Well Doug's templates required cutting a blank using a plasma or Oxy/Act torch, neither of which I have. Cutting the blank with a chisel or hot cut looked like way too much work. So I came up with my own method.

I start with a flat bar 3/16" x 2" and butcher down 1 1/2" from the end.

I take the butcher down until 5/8" or so is left.

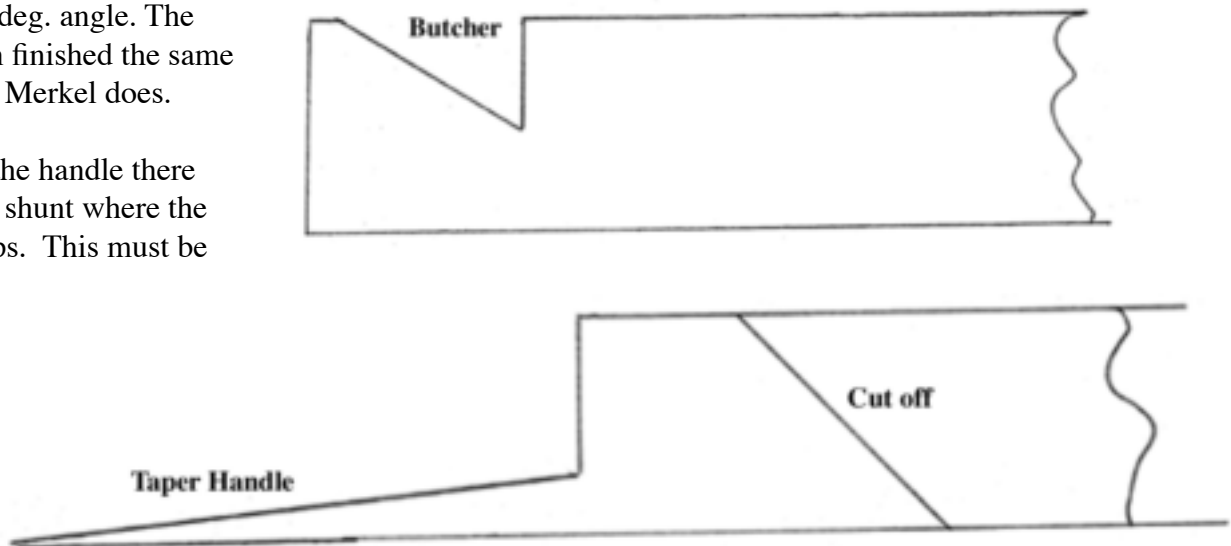
I then draw out the butchered section until it is about 8" long. This will be formed into a handle later.

I then cut the chopper loose from the bar at a 45 deg. angle. The chopper is then finished the same way that Doug Merkel does.

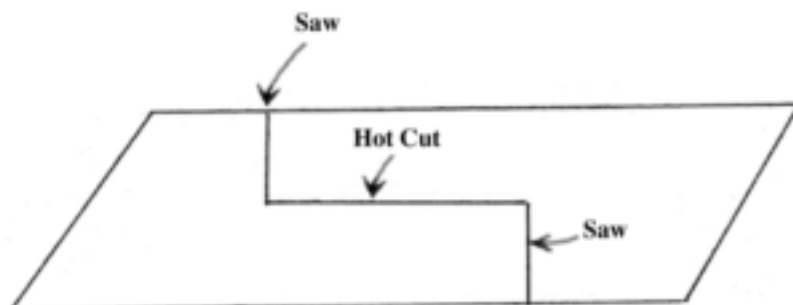
After shaping the handle there is sometimes a shunt where the butchering stops. This must be ground or filed out to prevent a problem later on.



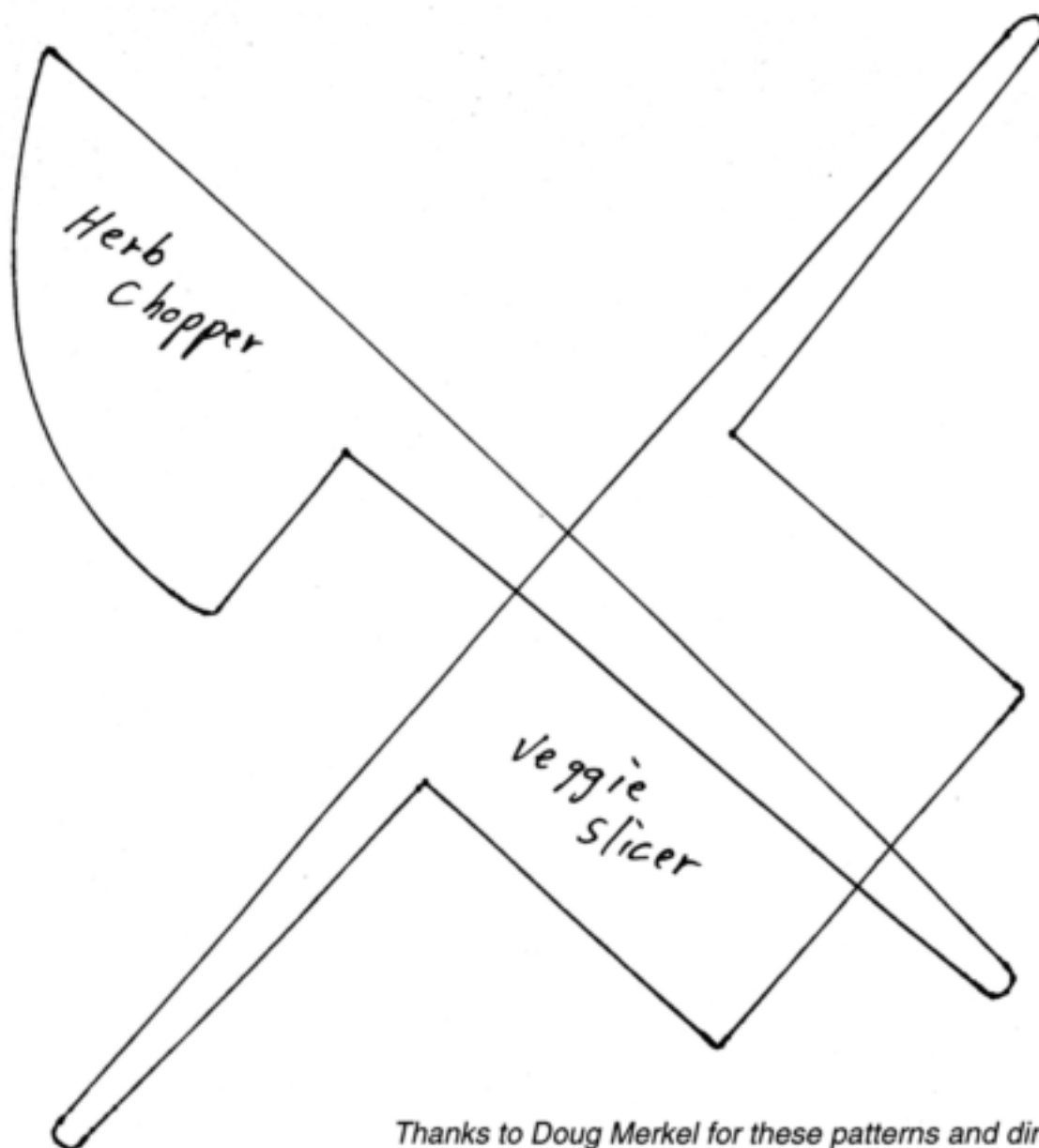
My Finished Herb Chopper



A while later I came across an article written by Doug Hendrickson. Doug had a little different approach to making his blank. He cuts a bar at a 45 deg. on both ends and then saws half way through in two places. He then separates the two blanks using a hot cut. Once the blanks are separated he tapers the handles and finishes them pretty much the same as Doug Merkel and I do.







*Thanks to Doug Merkel for these patterns and directions*

## Directions for making an herb chopper/veggie slicer:

Stock is 1/4 to 3/16 mild steel.  
Taper handles and round up. (You can leave profile square and twist

if you like.) Leave straight for now. Forge/taper blade, keeping flat. Bend handles into desired shape. Wire brush to remove all scale. Grind or belt sand edge profile and then taper to edge. Put final edge on with belt sander or fine file. Flame color or leave plain. If you want to finish use vegetable or olive oil. Pam spray works nice. I like to clean it real good, dry, spray with Pam and then put it in a hot oven for awhile. When you get it out, wipe it real good and let it

cool. After it sits for awhile wipe again and add more oil if necessary. Always finish food prep items with non-toxic finishes.

Note: It doesn't really matter which method you use to get started. Once you have the rough shape of the blank, the process of forging to final shape is the same. I finish mine hot, with beeswax, instead of oil.



# ABANA

Artist-Blacksmith's Association of North America, Inc.  
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abana@abana.org --- www.abana.org

President's Message  
February, 2007

## ABANA NEEDS YOU

Well it's happened ... the kids (ABANA Affiliates) are showing the old folks (ABANA) how it should be done. Yes, I am admitting that you put on more efficient conferences than we do.

Some of you have already known this and are probably saying right now, "Hey, we've been trying to tell you this for years." And again you'd be right. All I can say at this point is this - the straw hit the camel's back ... and it broke.

No longer can ABANA sponsor conferences as before. They have become too cost prohibitive to produce and attend. Now is the time for us to learn from you. Here are just a few fine examples -

Quadstate RoundUp in Troy, Ohio  
Southern Blacksmith Association Conference in Madison, Georgia  
IronFest in Grapevine, Texas  
CanIron in a different Canadian Province every two years  
California Blacksmith Association Conferences in California

So where do we go from here? What I would like to start is a dialog with you. I will be getting in touch over the next several months with many of you to discuss conferences and ABANA. In the meantime you can get in touch with me, [clareyellin@abana.org](mailto:clareyellin@abana.org)

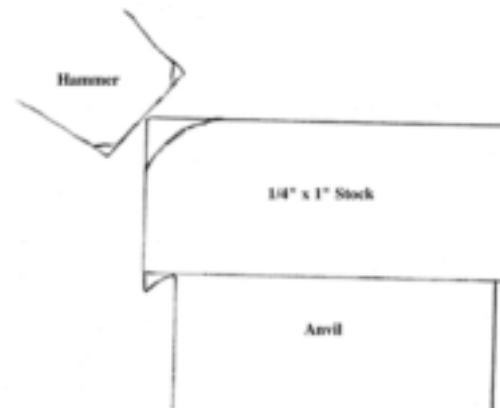
Our ears are open and with your help and guidance, the parent can learn a thing or two from the kids.

Clare Yellin, President  
721 Moore Avenue  
Bryn Mawr, PA 19010  
(610) 527-2334  
[clareyellin@abana.org](mailto:clareyellin@abana.org)

# Ken Jansen's 3 Heat Horse Head By Bob Ehrenberger

Ken says that when he is on a roll he can consistently make these horse heads in three heats and sometimes even in two.

To start out, hang about 1/4" of the bar over the far edge of the anvil and drive the top corner in. This rounds the mane area and creates a small point for the ear.

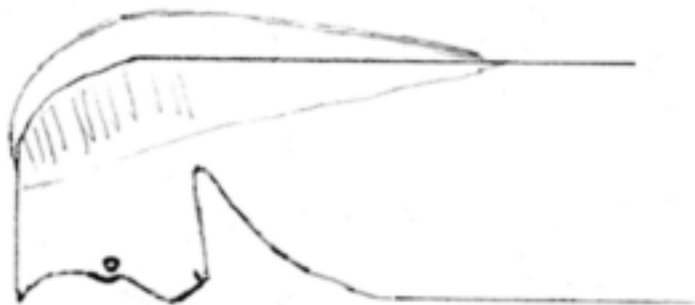


Next make a slightly angled cut, which creates the jaw line.

Trim the tip to square up the nose.

Put in vice and clean up the cut, which also tips the head back a little bit.

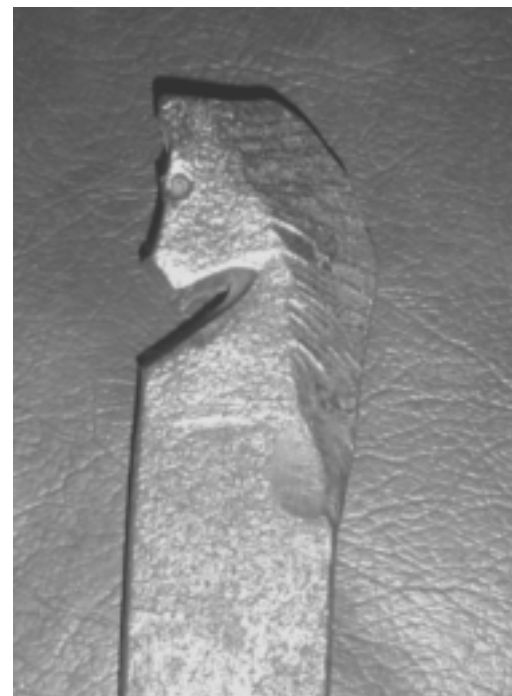
While still in the vice, make small cut to define the mouth. If you forge the ridge of the chest back a little here it will look better when finished.



Finally, taper back and thin the mane as if you were forging the edge on a knife.

Once the mane is thinned, use a small sharp cross pein hammer to texture it like hair.

Finally use a center punch to make an eye. Do this close enough to the edge that it bulges out a little and looks like an eye socket on the forehead.



Finished horse head.

Once you get it to this point you can make what ever you want on the other end. We were looking at making hoof picks, but you could just as easy make it into a coat hook or a key chain.

## Getting to know Maurice and Bess Ellis, our newest life members

By Bob Ehrenberger

As BAM's newest life members, many new BAM-ers may not know much about you. You were both nominated because you really are a team. I can't remember an event where you both weren't there. So let's get to know you right now, starting with Maurice.

BAM: So how did you first get interested in Blacksmithing? When?

Maurice: In the early 1970's, I was shooting blackpowder and couldn't afford to buy some of the needed items for the hobby, so decided to try to make them myself.

BAM: Did you take any classes early on?

Maurice: No, because I did not know of any. I finally found and took a couple of classes at the local community college taught by Bob Schantz in 1986.

BAM: Who most inspired you to get involved?

Maurice: A blacksmith who worked at Laclede Steel in Alton, IL, where I was a pipe fitter.

BAM: I know you served as BAM treasurer, how long were you in that position? Have you held any other BAM offices?

Maurice: 5 years as BAM treasurer, and served as 1st vice-president. I also coordinated BAM meetings for a couple years back when meetings were being scheduled one at a time and I wanted to plan further ahead than that.

BAM: For many years you supplied BAM members with spun bowls. Did you have an interest in spinning before blacksmithing, or was it out of a desire to make combination pieces?

Maurice: I just wanted to learn to spin metal out of curiosity. I took some of my first spun bowls to a blacksmith meeting as "show & tell" and someone wanted me to spin some for him. Thus, my spinning hobby began.

BAM: Do you have any idea how many bowls you have spun over the years?

Maurice: I did not count the bowls by number of bowls but by pounds of metal spun. About 900 pounds of copper, between 200 and 300 pounds of brass, and about 20 4'x8' sheets of steel were spun into bowls of various sizes.

BAM: You are also known for making power hammers. How did you get into that business? Did you develop the design yourself, or was it an adaptation of another hammer?

Maurice: I owned a 25# Little Giant and saw a commercial air hammer in NC and decided that I might prefer an air hammer instead of my Little Giant. I used what I could remember about the NC hammer as a starting point. Later ABANA published plans for a simple air hammer. These, trial and error, and suggestions from various blacksmiths were used to build my air hammers.

BAM: What kind of forge work are you most interested in?

Maurice: I still like to make blackpower rendezvous items, but old age has limited my work.

BAM: What project are you most proud of?

Maurice: Spinning metal.

Continued on next page....



Maurice shows off the replica Quadricycle that he built.

Ellis interview... Continued

BAM: What other interests do you have besides blacksmithing? I know that you are into ham radio and black powder guns.

Maurice: I no longer shoot blackpowder but now participate in single action cowboy shooting. I have also build a “semi-replica” of an 1896 Ford Quadricycle vehicle.

Bess has been hand-tying brooms for a long time. She even taught me how to tie my own broom for fire place sets. It’s a skill that I have passed on to a couple of my friends.

BAM: So how did you get into brooms?

Bess: I took a broom making class at John C Campbell Folk School in Brasstown, NC.

BAM: Do you still custom tie brooms for BAM members on their handles?

Bess: Normally I now tie brooms for people only if I have tied brooms for them before.

BAM: One of the most coveted iron-in-the-hat items is always a Bess Ellis forged frog on a lily pad. How did you get started making these?

Bess: After I watched a demonstration by Kirk Sullens at New Salem, IL, he was so sure that I wanted to make forged frogs that he gave me a personal lesson. He then convinced me that I should do something with the frog for the upcoming BAM conference auction. Since Maurice had lots of copper sheets and I had water lilies in my garden pond for a pattern, the “Frog on a Lily Pad” was born.

BAM: Have you kept track of how many you have made over the years? And who has them?

Bess: My records indicate that I made at least 118 forged frogs. About half of them were donated to BAM Conference auctions, other area blacksmith auctions, or BAM Iron-in-the-Hat. I know who received almost all of them.

BAM: Have you held any BAM office?

Bess: No, I try to not get too stressed. I did give Maurice help with his BAM treasurer duties.



Bess displays the things that she likes to make

BAM: At the last BAM meeting that you hosted, I had a chance to see your wall of fame. All the forged items were ones you have collected over the years. About half of these were obtained as trade items at BAM meetings and the rest were from BAM Conference and other area blacksmith auctions. This is a real testimony to how many meetings you have gone to and that you have been faithful in your participation in the program. Is there something that you traded for or purchased that is more special than the rest?

Bess: Each of the over 100 items is displayed because it has a special value or unique reason for being on the wall. Almost every item was made by a different blacksmith. Therefore, no item can be singled out as being more special than the others.

BAM: What other interests do you have? Are you into single action cowboy shooting like Maurice?

Bess: I love to make bars of hand soap, wire-wrapped jewelry, and hand-dipped chocolate candies. This is my third year of participating in single action cowboy shoots with Maurice.

BAM: Thank you both for your time and for all the years that you have worked to make BAM a better organization.

# Dividing Circles

by Paul Quyle, Murphys, California

From California Blacksmith May 2003

A few years ago I was visiting the shop of my wonderful friend, Morgan Keaton. As always he was busy, this time laying out bolt holes for a circular plate that was to be bolted onto some machine. It was a circular plate with eight bolt holes uniformly spaced on the circumference of a scribed circle.

I would have spent far too much time trying to do this by trial and mostly error with dividers, walking them around the circle, changing size until I got what I wanted.

Not Morgan, he pulled out a little chart from his tool box, made one small calculation, set his dividers and in the first try, he had perfect divisions. He told me it was an old method used by machinists for many years and that a circle of any size could be divided into any number of divisions based on its diameter expressed as a unit of one. His little chart was labeled *Chordal Values* (see below). I have no idea where it came from; he had cut it out of some publication. I copied it and have made use of it many times; it is a real labor saver.

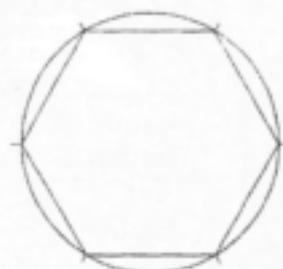
The math involved in arriving at these values is way beyond anything I want to worry about. I did go so far as to dig out my old high school text to review circles and nomenclature. To understand how to use the chart, some explanation of circles is necessary. So let's start by looking



at a circle drawn with a compass. A chord is a straight line that has its end points on the circumference of the circle. A chord, therefore, has a limited length. The longest chord that can be drawn is a diameter. We all remember from elementary school that if we use a compass to draw a circle, the radius can be used to step off the circumference into six equal



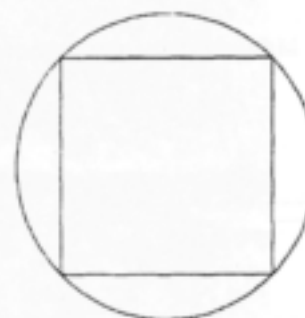
you want, read across to find a decimal number and multiply the diameter by this number. For example, we want to put 17 bolts around the circumference of a 13" diameter circle. Simply look at the chart for the number of spaces wanted, read across to the decimal number .1838.



from inaccurately setting the dividers. This chart only goes up to 32 holes; if you want more, you are on your own! These values allow you to form many different shapes; for example, other shapes such as triangles, octagons or stars are all easy to do.

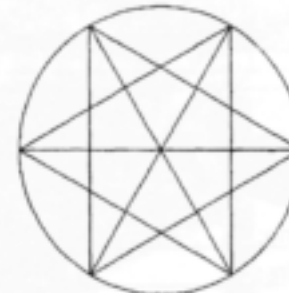
parts. Draw lines or chords between these points and you have a nice hexagon.

But now try to divide that circumference into, let's say, 17 parts. Life becomes very much more difficult. That is where this little table of *Chordal Values* becomes of so much value. Simply look up the number of divisions



Multiply the diameter of 13 by the value .1838, which equals 2.3894. Set your dividers to exactly 2.3894" and start stepping off the circumference of the circle. You should come out with exactly 17 divisions.

Discrepancies will be



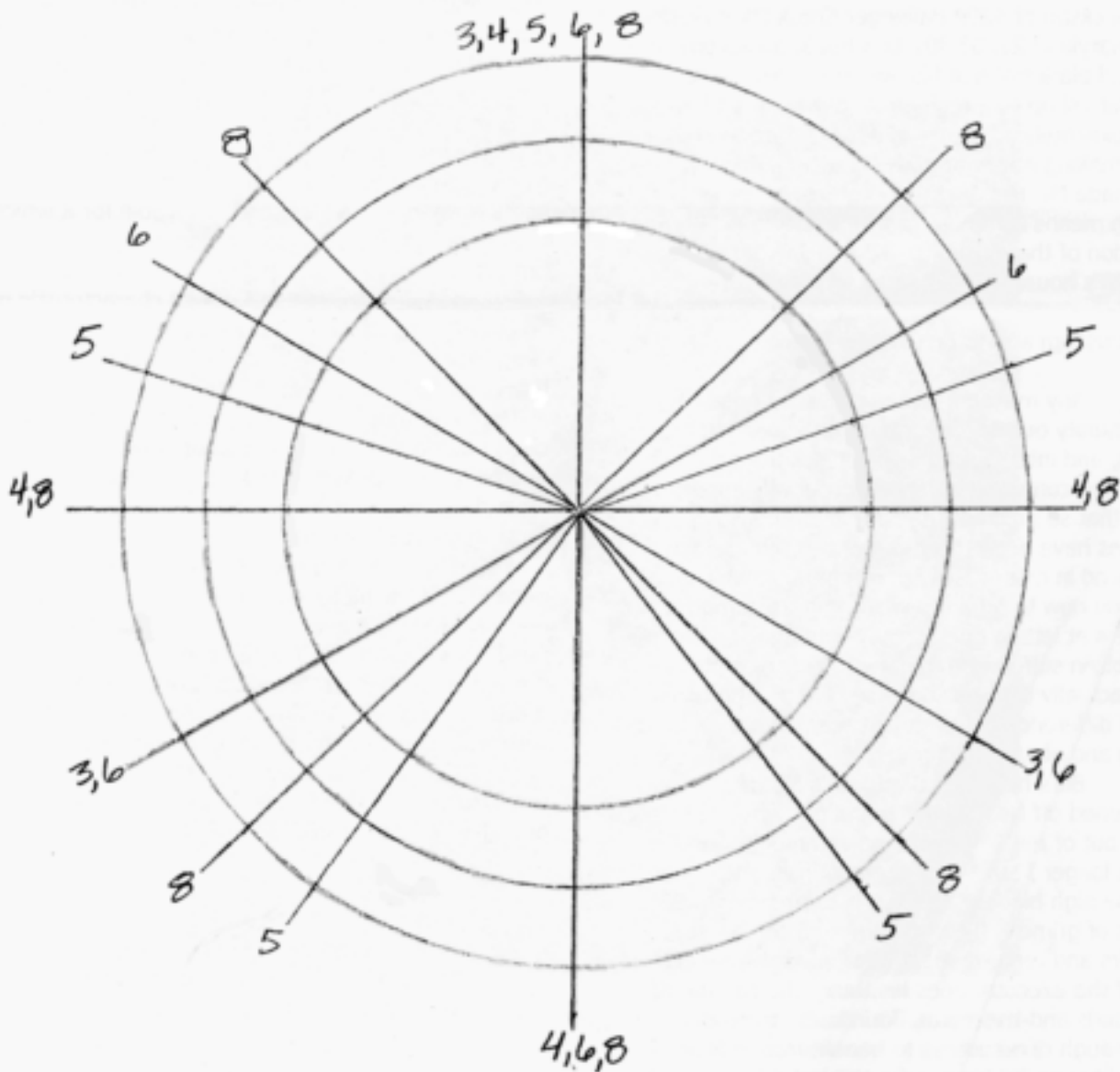
Chordal Values					
Divisions	Length of Cord	Divisions	Length of Cord	Divisions	Length of Cord
3	.8660	13	.2393	23	.1362
4	.7071	14	.2225	24	.1305
5	.5878	15	.2079	25	.1253
6	.5000	16	.1951	26	.1205
7	.4339	17	.1838	27	.1161
8	.3827	18	.1736	28	.1120
9	.3420	19	.1646	29	.1081
10	.3090	20	.1564	30	.1045
11	.2817	21	.1490	31	.1012
12	.2588	22	.1423	32	.0980

# CIRCLE SEGMENTS

This template for dividing a circle has been making the rounds but is too useful to pass up, so we're taking it from the New England Blacksmiths' newsletter and passing it on to you. To divide a circle into equal parts, connect the appropriate number to the center for the division you need. For example, the points marked 5 divide the circle into fifths

Cool Tip--On-line math and geometry calculators can be found on the web at [www.1728.com](http://www.1728.com).

# of Segments	Degree of Angle
3	120
4	90
5	72
6	60
7	51.428
8	45



# Buy, Sell, Trade

## Individual Classified ads

25 lb. Little Giant Power Hammer, new bearings, re-surfaced flat dies, adjustable toggle links, fresh green paint, the motor mount kit from Sid Suedmeier, and a 1.5 hp single phase motor. \$2500 OBO, call 785-305-1699, or e-mail at stegametalworks@gmail.com. -Micah Soyland Topeka, KS

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

If interested contact Kirk Sullens. 417-863-8628

## Commercial / Resource ads

### Services:

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

Ray Chaffin has a new computer operated **plasma cutting** system that can cut anything out of metal. Mail, call or e-mail your design for a price quote. Ray Chaffin, (660) 438-6720 or Ray's Welding, RR 3, Box 279, Warsaw, MO 65355.

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

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

## Information / Education

**Ozark School of Blacksmithing** - Tom Clark  
Tom: tclark@ozarkschool.com  
School: www.ozarkschool.com  
(573) 438-4725 Cell-(573)-747-8648

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

**Classes offered**, The Ornamental Iron Shop  
Contact the instructor to register and customize your class.  
John D. Thompson – Metalsmith  
3923 Hwy 25; Hodges, SC 29653  
864-374-3933

**Classes** at Pieh Tool Company, Inc. - Camp Verde, AZ  
The Bill Pieh Resource for Metalwork.  
Call now for more information and to enroll:  
(928) 554-0700 or (888) 743-4866. www.piehtoolco.com.

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

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

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

### Blacksmithing E-books on CD

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

## Products

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

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

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



## Buy, Sell, Trade, Continued

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

**Kayne and Son Custom Hardware**, 100 Daniel Ridge Road, Candler, NC 28715. (828) 667-8868 fax (828) 665-8303, e-mail: [kaynehdwe@charter.net](mailto:kaynehdwe@charter.net), web site: [www.blacksmithsdepot.com](http://www.blacksmithsdepot.com). Offering Peddinghaus 2 horn anvils, Offcenter tongs and swages, etc, hammers, tongs, the Fly Presses, Treadle Hammers, and Forgemaster gas forges. We ship and accept Visa and Mastercard.

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

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

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

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

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](http://www.blksmith.com) Phone (308) 384 1088

## Wanted:

**Articles for the BAM Newsletter.**  
E-mail, [bameditor@centurytel.net](mailto:bameditor@centurytel.net),  
or snail mail to Bob Ehrenberger, 6192 Hwy 168,  
Shelbyville MO. 63469.

## Help Wanted:

Full and Part time help wanted. Blacksmiths needed to produce small decorative items in your shop from our designs. Contact: Kathy Nugent, (913)-897-9411 [nugentgbc@yahoo.com](mailto:nugentgbc@yahoo.com)

## Demonstrator List

Fred Weisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc.  
Contact Fred to get on the list:  
417-589-2497 e-mail: [jweisenb@llion.org](mailto: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](mailto:aramed@grm.net) and he will get you signed up.

## Update on Power Hammer Workshop

The BAM workshop to build Spare Tire Power Hammers will be 8, 9, & 10 June at the Mexico, MO Voc Tec School. 905 North Wade, Mexico. MO. (Just North of Pizza Hut) Currently we have 10 members signed up to participate in the workshop to build a power hammer. Two pre-workshops will be conducted, one at Bob Alexander's shop in Desoto and one at Ned Digh's shop in Fulton (Ham's Prairie). In addition, we will be able to use a shop at the Voc Tec school on 6 & 7 June for unloading and setup work.

The pre-workshops will be held during the last week of April and/or May. Bob Alexander will set the dates later. Participants should plan to attend one of the pre-workshops, if you can't attend coordinate with Bob Alexander or Ned Digh. Volunteers are also welcome. Members with good welding skills will be needed at the workshop, Bring your own hood and gloves. The school has four 300 Amp Mig welders. Everyone must have safety glasses.

The estimate of total cost is estimated to be not more than \$1400. The more paying participants, the less cost per hammer.

The City has a public RV park, it also has tent sites. A number of motels and restaurants are near the school.

If you want a hammer, join the workshop now, as it may be several years before another workshop is held by BAM. For participants: Send \$500 to Bruce Herzog by April 1st, an additional \$500 by May 1st, and be prepared to pay the balance at the workshop.

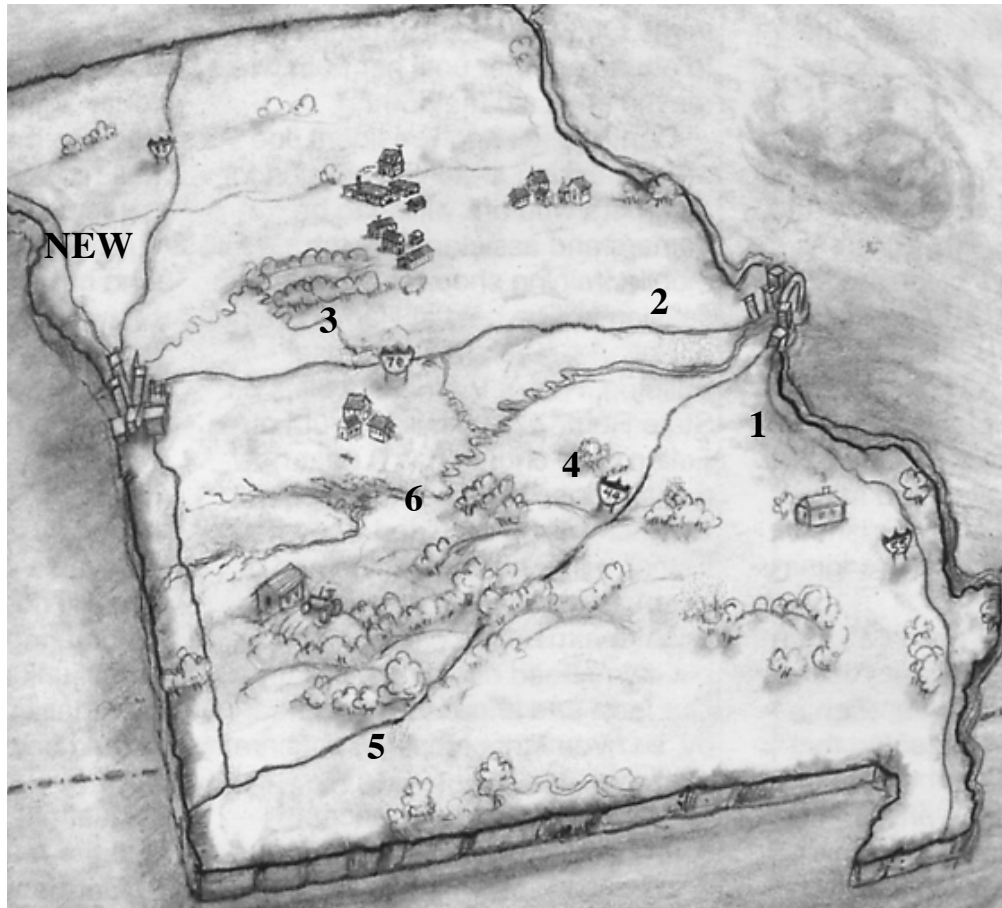
Members from other blacksmith organizations can participate, if they pay \$25 to become a member of BAM (insurance requirement).

Questions: Contact Ned Digh 573-642-8332 (if you leave message, leave call back number) e-mail: [npdigh@ktis.net](mailto:npdigh@ktis.net)

# Need Coal ?

## Check on Availability

Coal Captain: Bob Alexander



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

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

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

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

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

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

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

**NEW** Dear BAM members,

I have purchased 2500#s of Blacksmith coal from Sid Suedmeier in Nebraska to have some on hand for us blacksmiths in northwest Missouri where there are no club depots around. This batch will cost \$15.00 per 50#s. Future batches may have a price fluctuation. It is in bulk so guys will have to bring their own bags or buckets. I have scales to weigh it out. To start with there will be a limit of 250#s per person to insure some for several people. Just wanted to pass this along. The coal is located in Camden Point, Mo. I can be reached at 816-450-3352 or 816-8054223.

Thanks

Vernon Adkins  
adkinsfarms@earthlink.net

# Upcoming Events

April 3 Application deadline for May **Scholarship** awards.

May 4-6 **BAM's Ozark Blacksmithing Conference**. Sedalia, MO. (new location)

May 4-6 NW Ohio Blacksmith's 21st Hammer-in contact Ernie Deutchman (419)-472-1285

May 12-**BAM Meeting** Don Asbee's, Hartsburg, MO. (573)-635-8363 Trade item is a door knocker. No Food

May 19 **Newsletter Submission Deadline**

June 8, 9, 10 **Tire Hammer** workshop in Mexico Mo. Contact Ned Digh (573)-642-8332.

June 21-24 Ohio Tinsmith-Coppersmith Convergence contact Mike Rungon 880-590-9755 x 2018

June 29-July 2 **CANIRON VI** Victoria, BC Canada for information go to: [www.caniron.ca](http://www.caniron.ca)

July 14-**BAM Meeting** Larry Crow, Eldon, IA. (641)-652-7834 Trade item Handle with a forge weld and a twist.

July 26-29 **International BABA Conference 2007** Contact Elspeth Bennie, [elspeth@ironhorse-studios.co.uk](mailto:elspeth@ironhorse-studios.co.uk)

September 15-**BAM Meeting** Dale Gilman, Boonsburo, MO. (636)-447-6450 or (660)-848-2396

September 29 **MTS #1** Workshop (Basic BS) Dale Gilman, Boonsburo, MO. (636)-447-6450 or (660)-848-2396

October 6 **MTS #2** Workshop (Basic BS) Dale Gilman, Boonsburo, MO. (636)-447-6450 or (660)-848-2396

October 13 **MTS #3** Workshop (Sign Holder) Dale Gilman, Boonsburo, MO. (636)-447-6450 or (660)-848-2396

November 3- **BAM Meeting** Wayne Holder's, in Leon, Ia. (641)-446-6225

Note: For all MTS (Moble Training Station) classes contact Don Birdsall to sign up (573)-364-7223

Note: Mike Brooks is no longer selling coal for BAM

## New Members

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

Bowles, John  
11775 N. County Road 20  
Sarcoxie, MO 64862

Frost, Harold  
3120 Hancock  
Martinsille, IN 46151  
[anvil1@reliable-net.net](mailto:anvil1@reliable-net.net)

Smith, Kevin  
702 Shuttee  
West Plains, MO 65775

Branson, David  
6075 Hwy 17  
Houston, MO 65483

Jones, David  
975 Sherman Lane  
Florissant, MO 63031  
[straightshooters@sbcglobal.net](mailto:straightshooters@sbcglobal.net)

Stringer, Robert  
16202 Friend Drive  
Bocyrus, MO 65444

Cocker Sr, Don  
Rt 2 Box 2404  
Birch Tree, MO 65438

McGinnis, Tom  
Ozark Forge  
4615 N. Sunrise Court  
Ozark, MO 65721  
[Tom@Ozarkknifemakers.com](mailto:Tom@Ozarkknifemakers.com)

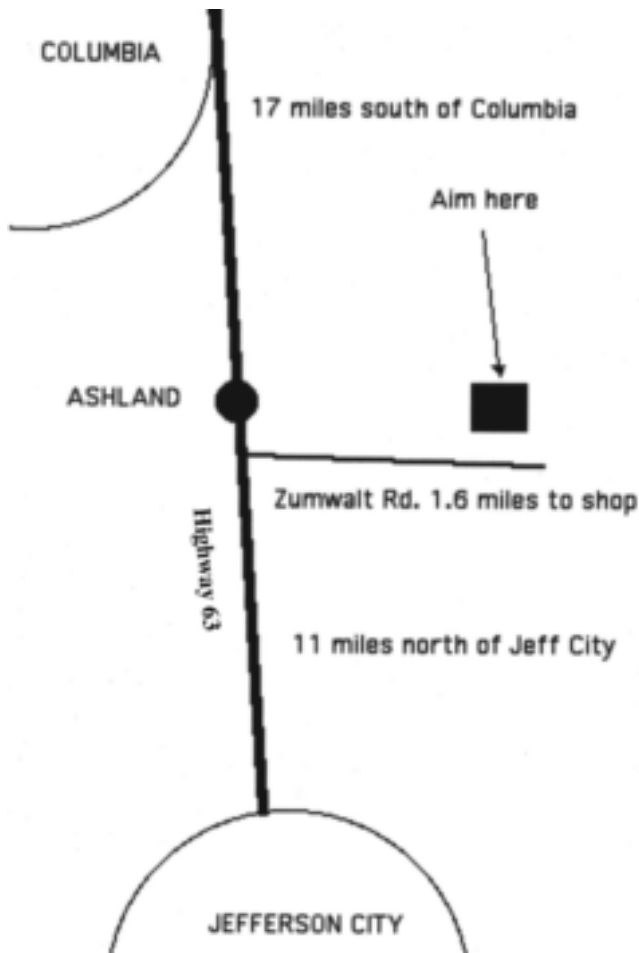
Wedemeyer, Dan  
2800 S. Hwy 185  
Sullivan, MO 63080

Derra, Frank  
6503 CR 2240  
Pomona, MO 65789

McKee Jr, Harry  
1425 County Road 1220  
West Plains, MO 65775

Wedemeyer, Daniel  
2800 S. Hwy 185  
Sullivan, MO 63080  
[dwedem99@fidnet.com](mailto:dwedem99@fidnet.com)

## Next Meeting: May 12, Hartsburg, MO.



### Driving Directions:

Don Asbee is the host of the next BAM meeting to be held May 12 at his shop east of Highway 63 near Ashland.

Don's not too hard to find. Just head north from Jeff City 11 miles or go south from Columbia 17 miles to Zumwalt Road. Take Zumwalt east (it's a gravel road) 1.6 miles and watch for the signs.

You can't see Don's shop from the road. His drive is on the left hand side of the road.

Don has one of the best equipped shops in the state. If he needs it, he builds it. His stock cutting rack, welding set up, heat exchanger and his new air hammer are must sees.

### Location:

1.6 miles East of Hwy 63 on Zumwalt Rd.

### Host:

Don Asbee

### Trade Item:

Door Knocker.

### Lunch:

Bring a sack lunch

### Phone:

573-635-8363

### 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](mailto:bjherzog@msn.com)