

RAM

January/February 2015



**New Year's day Hammer-in held at Pat McCarty's
Blacksmith shop and Museum.**

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**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 32 No. 1

January-February 2015

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The Newsletter of the Blacksmiths Association of Missouri is published six times a year and is mailed to members of BAM. The annual fee for regular membership is \$30/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@charter.net.** Occasionally some material will be copyrighted and may not be reproduced without written consent by the author. BAM welcomes the use of any other material printed in this newsletter provided the author and this organization be given credit.

Membership Application

Name: _____
Address: _____
City: _____ State: _____
Phone: () _____ Zip: _____
E-mail: _____

New Member Renewal ABANA member?

Are you interested in taking a class?

How did you learn about BAM? _____

Memberships are for one year from receipt of dues. Dues are \$30, which includes a subscription to the bimonthly BAM newsletter. Please make checks payable to Blacksmith Association of Missouri.

ABANA Membership Application

Primary ABANA Chapter Affiliation: _____

Name: _____
Address: _____
City: _____ State: _____
Phone: () _____ Zip: _____

New Member Renewing Member

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

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

See reverse

From the Editor

By Bob Ehrenberger

Like usual, this time of year is busy for BAM members. Ken Jansen used his Black Friday hammer-in to make tools for the MTS trailer. Ken then had another work day to fix the trailer and reconfigure it for the new forges. Pat McCarty had his usual New Year's day hammer-in. Finally our January meeting at Dale Kirby's Cooperage in Higbee.

There was some confusion about whether or not we were still going to have the meeting at the A&K Cooperage. It turns out that Dale had sold the business and he was in the process of moving all of his personal stuff out of the building. The new owner was real agreeable about letting the meeting go on as planned. As a matter of fact he had such a good time at our meeting he said that we can continue to use the facility for future cold weather meetings. What a blessing that is.

The breezeway where we had the demonstrations was a bit chilly, mainly because the day started out in single digits and it was kind of windy. They lit the big gas forge just to add some heat to the area, it helped a little.

Chris Miller started out by demonstrating how to make a strap hinge, which just happens to be the trade item for the Doniphan meeting in March. Chris needed to make a couple forge welds so Phil Cox fired up one of the new MTS forges and it did the job nicely. This is a nice tradition to demo the trade item at the meeting before we need to make it. I think it helps with the trade item participation. Chris submitted an article on making strap hinges so I don't need to write much about it here.

I followed Chris's demo with a short demo on how to make a

dragon head letter opener like the one I had for my trade item. The Dragon head is one I learned from Ed Harper and is something that I have included in my product line for 10 years.

This will be my last newsletter as your editor. I explained in the last newsletter that I needed to stay closer to home to take care of Jan who has had a stroke. For the last 10 years this job has defined me to most of you. For my first 10 years in BAM, I was known mainly as Daniel's Dad. My son Daniel is the reason that I got into BAM, when he started making knives he was too young to do it on his own, so I came with him. I took



Old and new BAM editors, I had a dark beard too, when I started.

the job as editor to supplement my income as a blacksmith which was substance at best. The money from being editor has allowed me to buy some tools that I would otherwise not been able to afford. It also forced me to document some of the things that I was going to do anyway. Finally and probably most important it gave me a chance to work more closely with BAM members and leadership which has been a real blessing.

Your new editor will be Jon McCarty. If I had been thinking, I would have asked him to write about Pat's hammer-in, to

get his feet wet before he had to jump in the deep end. I'm sure he will do a fine job. Jon comes from a blacksmithing family, Pat was president and Jim was editor when I joined BAM, so he has both blacksmithing and editing experts to call on when he needs help.

Plans for the Ozark Conference are moving right along. Mike just sent me the bios for the demonstrators and I sure hope I can make it. Don Asbee has the best thought out shop that I have ever seen and is worth a visit if you get the chance. I have been following Nathan Robertson on FaceBook and am really impressed with all the stuff that he does. And to my knowledge Elsa Fantino is the first time we have had a girl for our knife maker.

The meeting schedule for 2015 is full, but it's not too early to start thinking about 2016. If you want to host a meeting in 2016 contact Phil Cox or Jon McCarty.

BAM NEWS:

There is a new coal station in Western MO (Urich). Check the coal map if this works for you.

Grandpa Kent Harbit called to let us know that Orrie and Ally Harbit are the proud parents of a baby boy, Liam Cole Harbit who weighs in at 8 lbs. 5 oz. and 19 & 1/2 inches long.

The next Newsletter submission deadline is March 28th.

**Contact info for new Editor: Jon McCarty
e-mail : jester@bloodymicks.com
Phone: 636-359-1246**

BAM Meeting Minutes January 10th 2015

Submitted by Bob Stormer

Phil Cox opened the meeting by welcoming any new members. He also noted that Esther Digh had said there was one new scholarship application and requested another \$2500 be allocated for scholarships. The additional money was approved.

Bob Ehrenberger got a well deserved round of applause when Phil recognized his contribution as BAM newsletter editor. Bob has served as editor since January 2005 and will be succeeded by Jon McCarty.

The 5 new style gas forges for the MTS are finished and were on display at the meeting. One was used in the demo area and functioned very well. Phil mentioned there was some interest in a forge building workshop for BAM members. If anyone is interested, they should contact Phil Cox. His new e-mail is peacox49@gmail.com or 816-583-4337. The approximate cost would be about \$300.

Mike McLaughlin gave a 2015 conference status report, naming the three main demonstrators: Nathan Robertson, Don Asbee, and Elsa Fantino. Mike is still looking for volunteers to help with a variety of tasks. He specifically needs someone to coordinate the forging contest. You can contact Mike at cowpie42@hotmail.com or 816-296-3935. Mike Gentzsch is making the three tool boxes again this year, and tool donations are needed. You can find a list of tools needed on the BAM website and contact Bernie Tappel to volunteer to provide any you want to contribute. Auction items are needed, as are boutique and gallery items. The gallery

items can be for display only, or for sale, either independently or through the conference auction. Any type art can be displayed in the gallery, not just blacksmith related items.

Drawer pulls are required for a cabinet that some BAM members are making for the conference. Steve McCarthy and Jim Holland made the cabinet, Bruce Herzog is making the sheet metal drawer inserts and Ken Jansen will do the assembly. There are 18 drawers that will be about 13" deep. The wooden drawer fronts are 3"x5", so the drawer pull needs to be smaller than that. The target date for getting the drawer pulls to Ken is the March 21st BAM meeting. The cabinet will be in the conference auction. For additional information, contact Steve McCarthy at jrhd1988@gotrain.org or 417-260-1861.

Mike McLaughlin presented Phil and Margie Cox with their BAM Life Membership award that was not available at the conference when the award was originally presented.

Phil received a request for a potential blacksmith class, possibly using the BAM MTS, sometime in June or July around Odessa, MO. More information will be available on the BAM website or Around-the-Anvil in the coming weeks. Phil mentioned that the Trails End of Sedalia that is scheduled for 4/24-26/2015 is expecting someone from BAM to be demonstrating. Nobody at the meeting could confirm what commitment was made to them.

Trade Item – Letter Opener Made By: Traded To:

Dan Files	Brian Moore
Fred Arnhold	Don Nichols
Alex Tappel	Pat McCarty
Bob Stormer	Tim Shields
John Sherwood	Dawn Shields
August Griffen	Jay Wood
Dave Farris	Jamey Holland
Phil Cox	Santo Giuffrida
Jamey Holland	Steve McCarthy
Bobby Chambers	Mark Lawson
Mel Robinett	Fred Arnhold
Jay Wood	Rob Ahrens
Jon McCarty	Bob Ehrenberger
Mark Lawson	O.J. Stone
Shane Bullock	Bobby Chambers
Dawn Shields	John Sherwood
Chris Miller	Jon McCarty
Don Nichols	Shane Bullock
Bernie Tappel	Dan Files
Rick Mathena	Dan Wedemeyer
Dan Wedemeyer	Dave Farris
Pat McCarty	Daniel Wedemeyer
O.J. Stone	Rick Mathena
Tim Shields	Chris Miller
Brian Moore	Phil Cox
Daniel Wedemeyer	Josh Rhoads
Steve McCarthy	Bob Stormer
Rob Ahrens	Bernie Tappel
Santo Giuffrida	Mel Robinett
Josh Rhoads	Terry Smith
Bob Ehrenberger	August Griffen
Terry Smith	Alex Tappel

From Your President

Thanks to Dale Kirby and his crew for another great meeting. This may be the last one at the building, but Dale is going to build a new building with a party room and he even asked about setting up a blacksmith shop. I have a feeling the good times are not over at Dale's place.

The barrel making process is always fascinating. I have watched the machinery change over the years we have been going there. Some poor guy was working on a huge electrical panel that replaced the big round steel plate with all the cutters on it.

We had a great turn out but I did not get a count. Always nice to have new members, and to see some younger guys and gals interested. We had several splinter groups talking about lots of different subjects. Even saw several quilters have a show and tell of some wonderful work.

I think that was the largest Iron In the Hat we have ever had. Very nice participation in the trade items. I like seeing the items some of you guys that have been around a while are helping your Grandsons and other youngsters with. Gives me a renewed hope in our youth.

The gas forges for the MTS trailer went home with Steve McCarthy. He is going to build a mount to put them in the trailer, and maybe we can get the Inswool coated before the first use. I had several people ask if they were for sale. I am entertaining the idea of a forge building workshop if there is enough interest. We can get some price breaks if we buy some of the supplies in case lots. It really does not require much special equipment, mostly common hand tools and a welder of some type. This basic design can use different styles of burner but the Gensheimer burners are very efficient. I think they are easily worth the \$110 price tag.

Until next time keep your fires hot & clean and your anvil bright. Phil



Blacksmith wanted to teach.

Tyler Barnes wants a blacksmith from BAM, who would be willing to spend a week at his camp outside of Odessa, Mo. To be held in June or July 2015. Teaching a group of boys, age 5 to 17 years old.

Tyler is willing to pay for the training.

The details as to the dates, hours per day, food, lodging, payment for training etc. is to be left up to the blacksmith and Tyler to work out.

Tyler has agreed to join Bam, and if he does then the MTS Trailer and equipment can be used for the training.

Tyler has agreed to move the trailer to the camp and return the trailer to me at my shop in Rolla, Mo. after the camp and training is completed.

You can contact Tyler at:

Email address: tyler.barnes@questrail.com

Phone number: 816-565-1243

Iron-In-The-Hat January 2015 Mtg.

Donated By:	Won By:	Item:
Dan Wedemeyer	Brian Moore	Misc Metal, Springs RR Spikes
Silver Oaks	Mel Robinett	Barrel
Chris Miller	Mike Gentsch	Shaft
Rick Mathena	Fred Arnhold	Spring
Jay Wood	Earl Million	Grinding Wheels, Cut Off and Sanding
Dave Endres	Brian Moore	Tiller Tines
Fred Arnhold	Dan Wedemeyer	Metal Blocks
John Huff	Santo Giuffrida	Horse Shoes
Dave Endres	Mark Lawson	Saw Blade and Case
Dave Endres	Donovan Gorzel	Tiller Tines
Earl Million	Shane Bullock	Harrow Teeth
Benji Waller	Earl Million	Hard Bolts
Shane Bullock	Don Nichols	Front Axle 4x4 Chevy
Dan Files	Tom Sampsel	Large Punch
Dave Endres	John Huff	Tiller Tines
Brian Moore	Don Anders	Ti-6A1-4V Hip Nail
Dave Endres	John Huff	Tiller Tines
Earl Million	Cole Lewis	Rake Tooth
Mel Robinett	Dale Kirby	Letter Opener
John Murray	Shane Bullock	Hammer
C. Schumann	Don Anders	Hardware Encyclopedia
Dave Endres	John Huff	Tiller Tines
Phil Cox	Steve McCarthy	Future Gas Forge
Ed Harper/Phil Cox	Tom Patterson	Bees Wax
Doug Clemons	Dan Wedemeyer	Band Saw Blades
Tom Patterson	Benji Waller	Door Spring
Eric Wris	Josh Rhoads	Jack hammer Bit & Wrench
Don Nichols	John Sherwood	Disc & Pins
Josh Rhoads	Tom Sampsel	Welding gloves
Ed Harper/Phil Cox	Bees Wax	Mel Robinett
C. Schumann	Don Anders	Farm Collector 2010 Show Directory
Tom Patterson	Cole Lewis	Rake Tooth
Benji Waller	Daniel Wedemeyer	Hard Bolts
Dave Endres	Daniel Wedemeyer	Drill Bit
August Giffen	Bernie Tappel	Bees Wax
DK & Silver Oaks	Rick Mathena	Silver Oak Cabrnet \$100
Patti Tappel	August Griffen	Golf Ball File Handles
Bobby Chambers	Daniel Wedemeyer	Sanding Belts
Pat McCarty	Steve McCarthy	Steel Round Tuit
Phil Cox	Steve McCarthy	Future Gas Forge
Bill George	Bill Dittmar	10oz. Honey

Black Friday Hammer-in

By Ken Jansen

Well another Black Friday hammer in has come and gone. I do believe it was a success and everyone had a good time. We got 11 each of hot chisels hot punches and center punches made for the trailer. These are to replace the existing that is in pretty worn condition. They are all hand held instead of handled like the prior ones and should be easier to repair. They are made of the NASCAR axle material that is really tough. The punches and chisels were left as forged in regard to heat treatment, and the center punches were hardened in oil and then tempered in the oven. There were also a lot of practice pieces made out of sucker rod that those who made them got to take home. I also demonstrated a drawer pull that I call the pyramid head and I had several variations mounted on a board that people could look at to get some ideas for making their own drawer pulls. The wooden carcass of the cabinet is not complete but should be ready by Christmas time There will be 18 drawers so I could use as many as 17 more drawer pulls (Bernie made one today) for this cabinet. The usable space on the drawer front is going to be 3 by 5 inches with the 5 inches being the width.

We also had some discussion regarding the BAM trailer and another work date was setup for the 27th of December at my shop where we will try and get the mounting for the anvils set up and box storage situated. I want to say thanks to all those who attended and helped to make some of the tools or otherwise helped this event come off. A special hat tip to Bruce Herzog, Don Anders, and Mike Mclaughlin who struggled through the issues of getting the chili heated up and ready to eat at a late lunch. Also my thanks to the guys who Stayed late and helped me do a little cleanup and moved some items to the old shop to make room for me to bring the BAM trailer in to be worked on in December.



MTS Trailer Rehab

By John Sherwood

Ken Jansen's shop was the site Saturday, December 27th for a work day to do some repairing on the MTS trailer, which needed some TLC. We installed new blocks to hold the anvils in place over the axles and the toolboxes in front were screwed to the floor. Also we bolted eyehooks to the floor for straps to hold the anvils and toolboxes in place. The BAM logos on the sides and rear door were repainted by Bruce Herzog. Vise bases were built utilizing the old rack frames from the trailer. The new vise bases will use a barrel to be filled with water for weight, and provide slack water at the vises. Bernie and Ken repaired some damage near the right trailer wheel. The old forges and hand tools probably will be future Iron In the Hat items. The new gas forges were still being built by Phil Cox so no work for mounting was done but the consensus was they are light and may hang from the trailer walls. Thanks to the attendees: Ken Jansen, Bernie Tappel, Steve McCarthy, Bruce Herzog and John Sherwood.



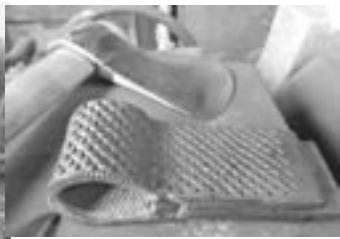
PAT McCARTY'S (HEADACHE) HAMMER-IN JANUARY 1, 2015

By Bob Stormer

My intention was to get to Pat's shop before anybody else (except Pat) and take some pictures of his shop for those of you who have never been there. When it's filled with people it's hard to see all the neat stuff hanging from the rafters, beams, and walls. I think there is a magic in that building since some items to be hanging from nowhere. To collect and put all that stuff in one building, Pat must be 150 years old, but obviously doesn't look it. That might be because Mary Jo takes very good care of him. Back to my original thought of taking pictures of Pat's shop – As I was coming through Washington the sun was just coming up and I hoped I could get a really cool picture of the pretty sunrise coming up behind his shop. The clouds came out so that didn't happen as you can see on the cover. There are many more on the BAM website. I think Pat's shop, which is officially called Washington Forge, should be a historical landmark. After all, as I mentioned before, it must have been built 150 years ago.

On to the purpose of the hammer-in, making stuff and talking with friends, and at the top of the list is eating Mary Jo's Pazole, potato soup, and corn bread. Also this year, in terms of food, a new member, who I think is a food distributor, brought some very nice shrimp and cocktail sauce.

I was not able to provide all the details of how all the items were being made this year since there was a lot going on at once, not to mention my desire to visit with folks I hadn't seen for a while. Pat's project this year was a heart shaped hook. I didn't see him make the hearts, but I believe he started with about 12" of 1/4" round stock, and taper the two ends, folded it in the middle, then shaped the heart by bending each point, and then bent the hook up. There was a young lady (Nell Waller) there who served her apprenticeship cranking the blower for Bernie and Ken on their project (really I think she saw Steve McCarthy getting tired and decided to help out), then she jumped in and made the project heart.



Wayne Rice was the first to forge at the main forge. He started by making a tomahawk from a horseshoe rasp. See Pictures to the left for Wayne drifting the eye and for the piece he started with and the final tomahawk. Ken Jansen had a neat pair of tongs for holding a fish



gig while working on the handle socket.



Lou Potts (to the left) made a really fine punch once the activity slowed down on the forge.

To the right, Bernie and Ken make a forge rake, in-process and finished respectively, except for wire brushing.



Tracy & Wade Johnson

We had at least three father & son teams and another team working on projects. Tracy Johnson and his son Wade making a tomahawk like Wayne Rice demonstrated.



Michael Gorzel and his son Ricky are making bear claws.



Close-up of Ken's Gig tongs.

PAT McCARTY'S (HEADACHE) HAMMER-IN JANUARY 1, 2015

Dan Wedemeyer and his son Daniel worked on a project of unknown type.



To the left, a friend of Jon McCarty's and his helper teamed up to make the project heart. Note father and son Bruce and Andy Herzog in the background.



Pat made a pattern welded knife from a weed whacker drive shaft. He tack

welded each end to start and then forge welded enough of the ends to square them up to allow for the repeated heating and twisting. After many trips to the fire and sprinkling with flux, twisting and pounding, Pat ended up with a very nice looking knife. The pattern wasn't as contrasting as he hoped, but that may have been because the etching fluid was cool and the blade had not yet been hardened.

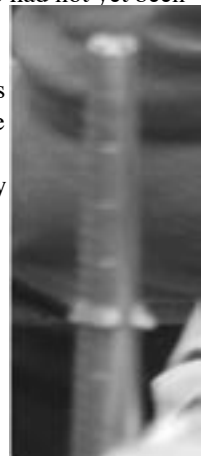


Roger Degner kept people interest by making rings from coins. He punches out the center of the coin and hammers it down over a small mandrel. After annealing the coin by heating it to red and quenching in water, he hammers the outer edge down to fold the ring over on the mandrel so one face of the coin is on the outside of the ring and the other face is on the inside. This maintains the lettering or embossing on the outer part of the finished ring. The only picture I got was a little fuzzy but may help with my explanation.



The last activity I saw before leaving about 3PM was Pat using his newly acquired sewing machine to sew a pocket on a leather apron for John Sherwood.

As I say every year, it was good reason to visit with other blacksmiths and learn a few new tricks. Maybe my annual appeal for new folks to see what Pat's shop is all about is working. The shop was full this year and as usual everyone seemed to enjoy the time.



Making a Decorative Strap Hinge

By Chris Miller

I have always enjoyed viewing the doors of Mediaeval Churches and Castles with decorative ironwork. The intricacy of some of the door hardware is astounding. But even the simple side and interior doors with iron hinges are remarkable examples of craftsmanship. An opportunity to dabble in this area arose last year when the side door of the Tom Kennon Blacksmith Shop needed a little sprucing up and I started researching the design and construction of strap hinges. One of the two strap hinges we installed is shown here. These were cut barrel hinges mounted flush with the door and the door frame.



For a new project I wanted to try to make a pair of traditional gate hinges in which the straps on the gate terminate in eye sockets (or gudgeons) which mount on a pintle affixed to a gate post. The strap work on the gate itself is very similar to the door straps shown above. Here is the method I chose to forge this two strap hinge gate hardware



Materials List: (Two Strap Hinges)

Pintles:

2 Pieces 1" x 1/4" mild steel 6.5 inches in length

1 Piece 3/8" round mild steel 3 inches in length

1 Piece 3/8" round mild steel 3.5 inches in length

Gudgeon Straps:

2 Pieces 1.5" x 3/16" flat mild steel 26 inches in length

Tools and Supplies Required:

Regular Forging Hammer

Regular Rounding Hammer

Small Forging Hammer

Hot Cut Chisel

Curved Chisel

Smith'in Magician with Fuller Dies

Anvil

Box Jaw Tongs, 1" and 1.5"

V-Bit Tongs, 3/8"

Post Vise

Welding Flux

Hot Cut Hardie or Chop Saw

3/8" dia. drift 6" long

Metal Try Square

Pyramid Head Decorative Door Screws for Mounting

Brass Brush

Drill Press & 9/32" TS bit

Pyramid Headed Door Screws for Mounting

Making a Pintle:

The process being described is identical on each of the pintle pieces except that the pintle pins will be of different length. The longer pin will be for the bottom hinge while the shorter pin will be for the top hinge. This will facilitate lowering the finished gate gudgeons onto each pintle.

I first broke the edges of the flat bar and textured the surface with overlapping blows from my rounding hammer working the metal cold. This gives it a real Mediaeval feel. I then did a flat taper on one end of the 1" x 1/4" flat bar to bring that end down to about 1" x 1/32". Us-



ing the rounded edge of my anvil I started a scroll over to an eye

socket the approximate size of my 3/8" drift and inserted the drift and closed the eye as round and tight as possible. By putting the eye side down and pulling back to rest the eye and drift along the sharp edge of the anvil and lightly back hammering the socket you can get it pretty tight.



Then remove the drift and square up the top and bottom of the eye socket. This entire process will take several heats. Remember to cool your drift after each heat, especially if you are using a mild steel drift instead of a harder tool steel drift.

The top of each 3/8" pin first needs to be round tapered for about one half an inch down to about 1/8" at the top. I do a square taper, move on to octagon and then round it over and file the top to a 1/8" diameter dome. Before



inserting the pin into the eye socket and forge welding it in place I recommend working the rest of the bar, especially since it needs to be bent the hard way through an angle of 90 degrees for this gate post application where the gate post is seldom wide enough to leave the pintle assembly straight across. By bending the bar downward through this angle, you can make it fit on the post, and it gives a rather unique look to the entire assembly.



After bending

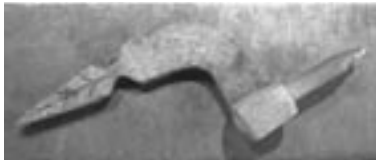
the bar on the pintle assembly I like to work the other end into some decorative shape or design. Old ironwork designs include a taper to a circle, or a taper to a tulip shape, or a taper to a fleur-de-lis or a veined leaf. I like to do a veined

Decorative Strap Hinge Cont...

leaf as shown here. To do so, I use the Smith'in Magician with fuller dies to fuller both sides of the 1" bar down to about 1/2" at a point about 2" from the end of the bar. I then taper the segmented area down to a leaf point. I like to put veins on the leaf area and do the central vein with the hot cut chisel, then move on to use the curved chisel for the side veins. I don't punch the screw holes, I drill them, but not at this point. I wait to do that at or near final assembly so that the further work on forge welding in the pintle does not distort the holes.



It is now time to forge weld the pin into the eye socket on the bar. I insert the pin with the proper orientation until the bottom of the pin is flush with the bottom of the eye socket and tap it hard enough so that it will not move around during the fluxing and welding heat. I bring the eye socket and pin assembly to an bright orange heat and apply flux. I use Iron



Mountain Forge Welding Flux which is marketed by Bryan Brazeal because it works for me better than plain borax. After bringing the assembly up to welding heat and making sure the flux is liquid, I remove it to the anvil and, using a small headed strait peen hammer that can get in close to the sides of the eye socket, I close the weld with sharp, but not terribly hard, blows on all four sides. As the weld settles you can square everything up. You might want to use a metal try square to make sure the pin is perpendicular to the bar. Even if the weld is not perfect, if you pay attention to slightly chamfering the bottom end of the weld it will pinch the pintle tightly enough into the assembly that the pintle will not shift or move when the gudgeon is resting on the pin. Depending upon how you plan to mount the assembly on your post, you might want to put a small cant in the bar near the eye socket and pin assembly so that it will sit a little proud of the flat side of the post to make it easier for the gudgeons to slide down over the pins.



When done with the forging, I recommend that you take the piece to the vise and give it a good power



wire brushing to remove welding slash and scale. If too much scale has built up you might have to soak the piece in a vinegar bath for awhile to get it cleaned up. If the wire brush does an adequate job of cleaning the work you might as well use the residual heat and wire brush the leaf end with a brass brush to give it a bit of a patina and highlight the veining.



When you get ready to mount the pintle assembly, measure your post dimensions and mark your three screw holes with a good center punch in a triangular pattern to fit the post. Then use the drill press to drill the holes in the bar. I would recommend that you use a 9/32" drill bit for a 1/4" screw shaft diameter so you will not have to countersink the holes to get the screws started through the bar. I use pyramid headed door screws that are screwed in with a socket wrench because they have a mediaeval look.



Making the Gudgeon and Strap:

The strap hinge material needs to be textured just like the pintle assembly. It is easier to do this at the beginning; if you wait until after forge welding the eye, the stress from the texturing hammer may break your forge weld.



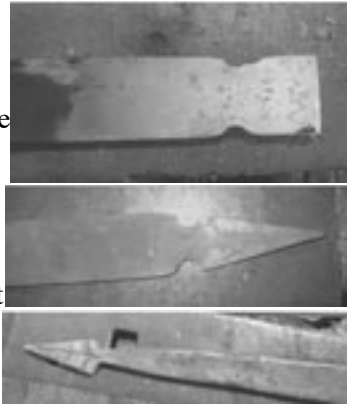
Unlike the pintle assembly, the eye socket is fully enclosed with about a 1.5 to 2 inch overlap that is fagot welded back to the bar, not just rolled into an eye socket. I fold about 3 inches back into the bar and flatten it, leaving enough of a socket on the end to insert the drift. With the drift inserted I work on rounding the eye while flattening the fold over to the bar. When the eye socket is fairly well rounded I remove the drift and open the overlap far enough to get the welding flux between the surfaces of the area to be welded as well as the edge and sides. When the flux is applied and begins to glisten in the fire, remove it quickly to the anvil and tap it with sharp but fairly light blows until the weld sets. Then use heavier blows to firm up the edges. While you have some heat left from the welding, re-drift the eye socket from both ends. Clean up the weld with a stiff wire brush or use a power wire brush.



Continued on page 14

Decorative Strap Hinge Cont...

The end of the bar on the opposite end of the gudgeon is for your decorative work. You can make it into an arrow head, a Fleur de lis, a leaf, a circle or splay it into a number of scrolls. For this project I am doing a veined leaf to match the pintle assembly. Again, using the Smith'in Magician with fuller dies, fuller both sides of the bar about 2 inches back from the square end to a depth of about half the width of the bar. Then taper from the fuller to the end of the bar to make a point. Using the hot cut, chisel a center vein down the leaf to the point and then use the curved chisel to do the side veining.



After completing the leaf end of the bar, you need to taper the bar back from the fuller towards the gudgeon to make an eye pleasing taper along the entire bar. When finished



with the forging, do a final power wire brushing and do the veined leaf with a final brass brushing. You can now drill the holes in the gudgeon assembly to fit the picket spacing in your gate. Again, I use a pyramid head lag screw to mount the pintle assembly to the post and the gudgeon assembly to the gate. I also like to give the work a clear acrylic finish to deter rust and yet allow the brass patina to show through.

There are scores of variations on this theme for door and gate strap hinges using a pintle and gudgeon hinge, and, as many, if not more, barrel hinge forms. If you want to see examples of dozens of classic Early American door and gate hinges that I reviewed for this project, see Albert H. Sonn's "Early American Wrought Iron", Charles Scribner's and Sons, New York, (1928).

EARLY AMERICAN WROUGHT IRON

ALBERT H. SONN

WITH THREE HUNDRED AND TWENTY PLATES FROM DRAWINGS BY THE AUTHOR

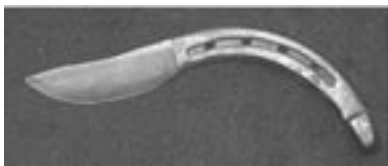
VOLUME II

"This is the only book of its kind in the world. It is a masterpiece of the art of the blacksmith and the artist." —The Field Book, London.

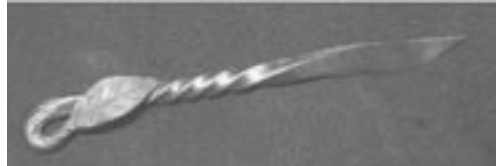


CHARLES SCRIBNER'S SONS
NEW YORK
1928

January Trade Items



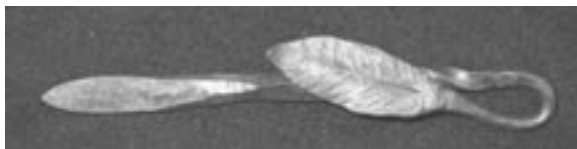
Bobby Chambers



Tim Shields



Fred Arnhold



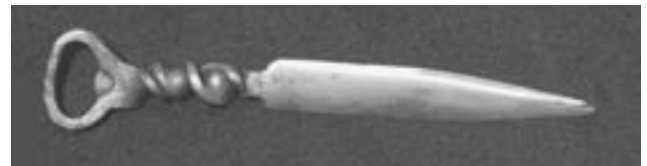
Dawn Shields



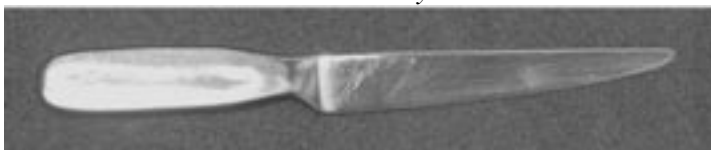
August Griffen



Jon McCarty



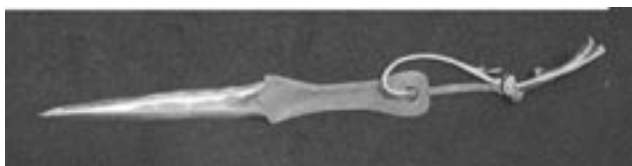
Alex Tappel



Phil Cox



Dave Farris

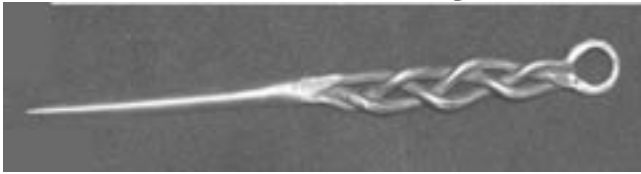


Rick Mathena



Brian Moore

January Trade Item



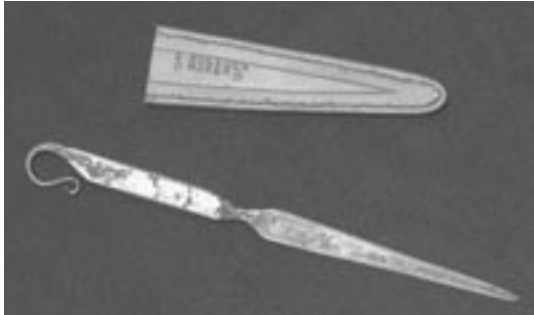
Bernie Tappel



Rob Ahrens



Terry Smith



Shane Bullock



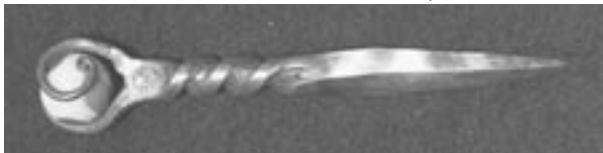
Bob Ehrenberger



Steve McCarthy



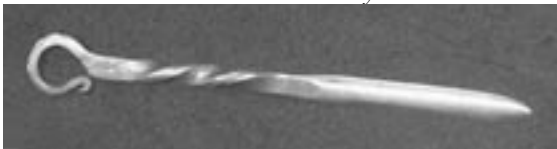
Dan Files



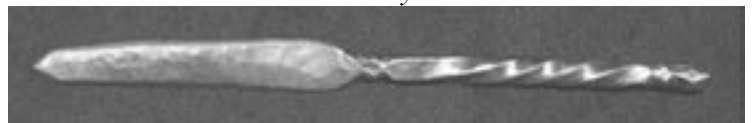
Pat McCarty



Jamey Holland



Bob Stormer



Daniel Wedemeyer



Don Nichols



O. J. Stone



Josh Rhoads



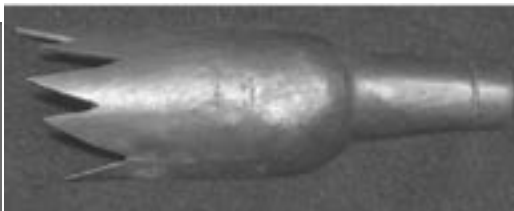
Dan Wedemeyer



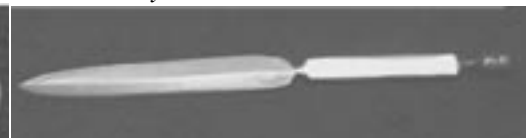
John Sherwood



Jay Wood



Santo Giuffrida



Mel Robinett

Mark Lawson

BAM Scholarship/Grant Program

- I. Scholarships and Grants will be awarded by the Scholarship/Grant Committee to BAM members in good standing and have been an active member of BAM for two years. Decisions of the Committee will be final.
 - II. Scholarships up to the amount of \$1000 will be granted by the Scholarship/Grant Committee to an individual (1) to attend a recognized educational program or (2) to train under a recognized blacksmith craftsman (see notation following articles) for the purpose of learning new and/or advanced blacksmithing skills. The submission of an appropriate application is required.
 - III. Grants of \$250 or \$500 can be made by the Scholarship/Grant Committee to (1) fund a workshop in a member's own shop (2) train and/or share skills with fellow blacksmiths or (3) to complete a one on one mentorship with a skilled blacksmith craftsman for skill enhancement. The submission of an appropriate application is required.
 - IV. The Committee is to consist of 3 members who serve rotating 2 year terms appointed by the BAM President. The President will appoint one of these members chairman of the committee.
 - V. The Committee will be responsible for publicizing the Scholarship/Grant Program and for suggesting changes to these guidelines as may seem appropriate. Changes are to be approved by the Board of Directors of BAM.
 - VI. The Committee will determine the number and amounts of scholarships/grants based on the amount of funding approved by the Board of Directors.
 - VII. The Committee Chairman will have the responsibility of requesting funds from the Board of Directors for the calendar year.
 - VIII. Eligibility: Only members in good standing in BAM may receive scholarships and grants and the scholarship committee members are not eligible to receive a scholarship/grant while serving on the committee. No member may apply for a scholarship within one year after receiving a previous scholarship. Applicants who have not received a scholarship within three years prior to their application will be given priority.
 - IX. Applications must be received 30 days before the date of the award unless waived by the Committee Chairman and/or President of BAM
 - X. Scholarship Recipient: Every Scholarship recipient, within three months after completing the event for which the scholarship is granted must submit a written description of the event to the BAM Newsletter (appropriate pictures and diagrams may be included). Within one year, the recipient must also demonstrate what was learned as a consequence of the scholarship either at a BAM meeting or on a video tape to be placed in the BAM Library.
 - XI. Grant Recipient: One of the following four options can be selected: (1) chose to write an article for the BAM Newsletter describing the workshop they conducted or the skills taught to fellow members; (2) write an article describing the mentorship experience; (3) provide diagrams and directions of the items made during a sponsored workshop; (4) present a demonstration at a BAM meeting.
 - XII. The Scholarship/Grant Committee will prepare an appropriate application forms for both the Scholarship and Grant Program. In addition, the forms will be published in the BAM Newsletter
 - XIII. Scholarship and Grant applications must be submitted to the Scholarship Chairman, Esther Digh, 6792 CR 424, Fulton, MO. They will be shared with the other committee members and a decision will be made. The recipient will be notified in writing of his/her selection.
 - XIV. Questions about Scholarships or Grants can be addressed to the Scholarship/Grant Chairman.
- Please note: Members of the Scholarship Committee may contact applicant for additional information on the individual(s) teaching the selected event.

Editor's Note:

I removed the blank lines on the applications because we are short of space in this issue. You are expected to provide a reasonable statement of your plans and needs, not just a short sentence. Bob

SCHOLARSHIP APPLICATION

Name:

Address:

Phone Number:

E-Mail Address:

The education program/workshop do you wish to attend:

The location of the event:

Individual responsible for the event and/or teacher for the event:

Identify the costs to attend the event:

Tuition

Travel

Lodging/meals

Other

Briefly,

of blacksmithing. Identify the specific skills you expect to learning during this learning experience.

I underst

attended with appropriate notes and diagrams to the BAM Newsletter no later than 3 months after attending the event AND within 1 years of

the BAM Library.

Signed _____ Date _____

Mail to Esther Digh, 6792 CR 424, Fulton, MO 65251

GRANT APPLICATION

Name:

Address:

Phone:

E-Mail Address:

Identify one of the two options for Grants you wish to complete:

Identify the objective(s) of the workshop to be conducted or the objective of the mentorship:

Identify the instructor of the workshop or the mentor selected for the educational experience:

Identify the expected outcomes or skills to be learned from this experience:

Identify the costs of this educational experience (materials, fuel, travel, handouts, propane, etc):

Select one of the following to complete after the educational experience:

____ (1) Write an article for the BAM Newsletter about the workshop conducted and the skills taught;

____ (2) Write an article describing the mentorship experience;

____ (3) Submit diagrams and directions for making the items made during the workshop;

____ (4) Present a demonstration at a BAM meeting.

Signed: _____ Date: _____

Mail to Esther Digh, 6792 CR 424, Fulton, MO

Conference Demonstrator Bios

Don Asbee www.donasbee.com

Born and educated in New Jersey and Pennsylvania, and trained as a farrier in Montana and a welder/fabricator in Missouri, Don has worked creatively in metal since 1972. In the early 1970's, Don enjoyed blacksmithing and horseshoeing as a "back-to-the-basics" occupation in Bland, Missouri. Through the 1980's, Don had the opportunity to work frequently with Francis Whitaker, Dean of American Blacksmiths, in various workshops and conferences. His design training was through private tutoring by Rodney Winfield, Professor of Art at Maryville University of St. Louis, and the creator of the Space Window for the National Cathedral in Washington D.C. In his Bland, Mo location, he created custom woodstoves, fire tools, gates and fences for clients throughout the state. During the last 26 years, however, he has gradually shifted the emphasis of his forge work from mostly functional to chiefly sculptural and architectural forms. Don's background in forge work and welding provided the framework from which his art has emerged.

His sculptures and architectural metalwork may be seen statewide in the homes and on the grounds of many private clients. He's also created pieces for such clients as the Kellogg Company in Battle Creek, Michigan; the St. Louis Zoo; Hermanhof and Stonehill wineries in Hermann, Missouri; Schneithorst Restaurant in St. Louis; Casualty Indemnity Insurance Company in Jefferson City, Missouri; Trinity Episcopal Church in St. Charles, Missouri; the Newman Center and Unity Center in Columbia, the City of Columbia, Missouri; and the National Air and Space Museum at the Smithsonian Institution in Washington, D.C.

His studio is located in a rustic setting near Hartsburg, Missouri, where he designs and creates custom, commissioned pieces. Next time you're near Hartsburg, please stop by. Also, keep an eye out for his ironwork throughout the state and points beyond.

Nathan Robertson

Jackpine Forge

www.facebook.com/jackpineforge

My fascination with tools started sometime around the age of 5 when my parents gave me a set of real woodworking tools. A box of band-aids was soon to follow. When I was 13 I started working as a carpenter with my father and spent the next 27 years in the trade, running my own business for 20 of those years. Blacksmithing became part of my life when a friend urged me to join a local group back in early 1998. Tools still were my biggest interest and by the following year I had a 50 lb Little Giant and the start of a metal shop. In 2000 I started making hammers to finance my new "hobby" but within two years it was a second full time business. I even spent a year doing a set of large gates for the St. Paul Cathedral in St. Paul Minnesota. In the fall of 2012 I got tired of the constant juggling and I finally hung up my carpenter's tool belt and now concentrate solely on toolmaking and other forging. As of late October 2014 I've forged just shy of 4200 hammers of all types and sizes and hundreds of other tools. I've also taught classes all over the country and have no idea the numbers of students I've taught. My main interest anymore is flat die forging and tooling with power hammers and I've been fortunate enough to glean information over the years from smiths like Clifton Ralph, Bob Bergman, Steve Parker, and Phil Cox. I truly believe that I learn something every time I work a piece of hot steel whether by hand or in the power hammer though I'll never know it all. I'm just happy to be able to share the little bit I do know and pass on what has been taught to me.

I'm especially excited to be demonstrating for BAM as I've been attending BAM conferences for years and have made so many good friends at them. This will actually be my 10th conference. For my demo I plan to cover tool design, making drifts, 8-9 ways of putting holes in handled tools (and finishing those tools), some power hammer tooling, some hot plate bowl raising, stamping, and some simpler quick and dirty projects to break up the monotony. I may not get through all of it but I'll try my best. I plan to have three projects in the forge at all times throughout the demo. I'll likely have a few things I don't even know how to do yet since I'm always trying new things.

Conference Demonstrator Bios

Elsa Fantino <http://www.elsaforge.fr>

Elsa started forging blades when she was 22, after she got the taste for edge weapons from practicing sword fighting in a medial theater stunt company. The president of French blacksmith guild provided the opportunity to meet knife makers and to try her hand at forging. The scuba diving career was left behind and she dove into the bottomless pit of forging knowledge.

Giving up her belongings and travelling from workshops to gatherings, she discovering an art she had an instinctive knowledge for. She had grown up in a remote area north of Lyon, as long as she can remember she has carried knives, and used cutting tools walking the forests she had to cross if she wanted to see other human beings.

After 2 years of carrying her hammers in her backpack, she ended up at the door of a wrought iron workshop and stayed in front of it until the “companion” who owned the place accepted her as an apprentice.

Thanks to two years of old fashion guidance she signed up in a prestigious wrought iron work company with a scholarship in art school. Due to her extensive background of travel and her fluency in English, she ended up flying around the world to design and follow high hand interior design iron work projects.

Meanwhile she pursued the art of fighting, taking up yoseican budo (second at the world cup in 2005, numerous national titles and member of the national team) kick boxing, and contact karate (French title in 2008). She walked in many places to take up classes, her work bringing her to travel a lot in the USA, her gloves in her suitcase. She also developed her own improvised weapons, and rules

To all BAM Members

Due to having shoulder surgery on November 10th 2014, I will not be able to do any heavy lifting for about 12 or more weeks.

The MTS trailer needs to be at Ray Scott’s on or before February 21st at Eminence, MO.

After March 1st the trailer needs to be moved to my shop where I hope to be able to get it ready for the BAM Conference, or taken to who ever moves it to their shop and repair any damaged tools and then take the trailer to the Conference.

of self protection, because business traveling exposed her to being alone in places she didn’t know at any time of the day.

After ten years of practicing at the forge, on the mat, and in real life, she considered she could attend Fred Perrin’s seminars. The meeting was meaningful for both of them, as they discover their paths were running parallel, in what they expected from their practice and their vision of knife making.

Elsa was directing an ironwork company in Florida and training MMA with ATT Port Saint Lucy, to compete in the cage when a serious knee injury made her return to France for surgery at the end of 2008 and she decided to stay there. Fred convinced her that her vision of knife making was original and relevant and that she should develop and sell her work.

Sharing long hours in the workshop and on the mat, they enrich each other’s work by their common vision but from different angles.

What I will demonstrate is how to forge with simple tools and equipment, as opposed to making knifemaking very complicated. Using a gas forge and basic materials is enough to make good knives. I will also show how to heat treat using color and a bucket of oil (olive, old car, whatever oil that resists heat) how to finish handles with basic tools. I try to forge my blades as close to finished as possible so I don't have to use the belt sander too much.

I will show stuff that is often very far from how American knifemakers work so it brings something new.

If the trailer is brought here to my shop, then I will need someone to move the trailer to the Conference.

After the Conference It will need to be moved again.

Thanks
Don Birdsall

Adjustable Height Anvil Stand

by Jim Vandike

The following dimensions are for an adjustable height anvil stand that will allow people ranging from less than 5 feet to over 6 feet in height to comfortably use an anvil. I build this to use at the Christianson Native Craft Workshop in Shannon County where I teach each summer. I teach students one-on-one, and they vary from small ladies or kids to big strapping men. It was frustrating to watch them try to work at an anvil that was entirely too high (or too low) for them to work at. After using this adjustable stand for the past several years I find it works quite well and requires minimal time to adjust to fit the user.

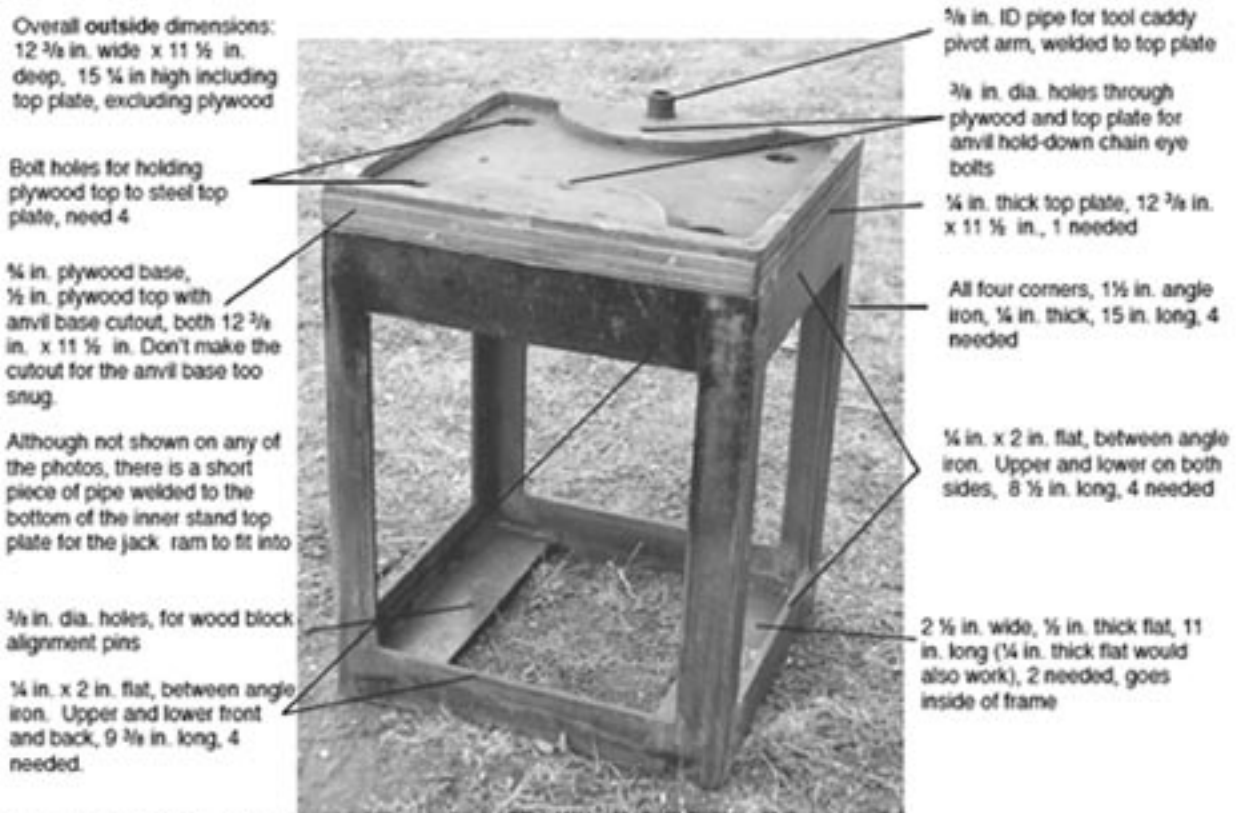
The hydraulic jack is not used to support the inner stand. It simply allows the stand (with anvil and tool caddy in place) to be easily raised and lowered to the proper height. The inner stand rests on wood blocks that allow adjustment in about 3/8 inch increments. Two 1/4 inch diameter pins about 9 1/2 inches long pass through the inner stand base plates, the wood blocks and the outer stand bottom plate, to keep the blocks from moving.

The most critical dimensions are the outside of the inner stand and the inside□

inch thick stock, mostly 1 1/2 inch angle iron, 2 and 2 1/2 inch flat stock, 1/4 inch plate, and 11 gauge (+ or -, not a critical thickness) sheet metal.

I h□ tools. When disassembled, the inner and outer sections of the stands are light enough for one person to load in a trailer or pickup.

Warning:
To prevent smashed fingers, place enough wood blocks inside of the outer stand before lowering the inner stand in place so there is ample clearance for your fingers.



All of the cuts were made using a hillbilly chop saw. Holes were pre-drilled with a drill press. All welding was done with a Lincoln 135 wire welder. Check fit frequently to make certain that the inner section does not bind inside of the outer section. Grind welds smooth so the inner and outer sections will slide easily in place and move up and down smoothly.

Figure 1: Inner stand



Overall inside dimensions:
12 1/2 in. wide x 11 1/2 in.
deep, 18 in. high

Overall outside dimensions:
13 in. wide x 12 1/2 in. deep,
18 1/4 in. high including bottom
plate

All corners, 1 1/2 in. angle iron,
1/4 in. thick, 18 in. long, need
4

Side panels and door, 11
gauge sheet steel or
whatever is convenient,
about 1 inch wider and
longer than the openings
they cover, tack weld on
inside

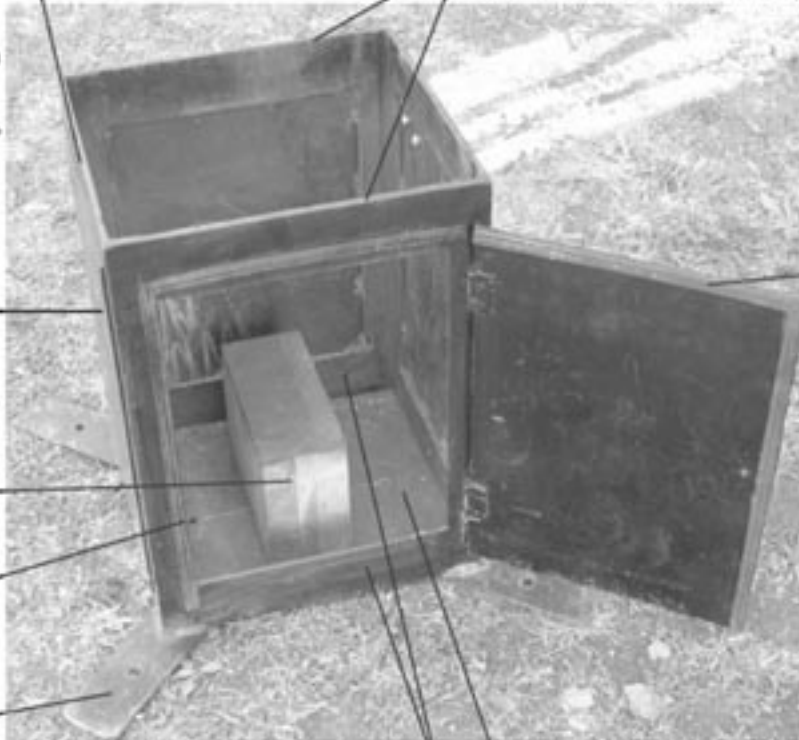
Wood jack block, dimensions
depend on hydraulic jack
dimensions. Fasten through
bottom plate with wood
screws

3/8 in. dia. holes, for wood
block alignment pins, one
on each side of jack block

Legs, 2 1/2 in. wide, 5 in.
long from box corners, 1/4 in
thick, 1/2 in. dia. holes for 10
in. spikes (3/8 in. spike
dia.), need 4

1/4 in. thick, 2 in. wide flat, both sides, upper
and lower between angle iron corners, 9 1/2
in. long, need 4

1/4 in thick, 2 1/2 in. wide flat, upper front and back,
between angle iron corners, 10 in. long, need 2.
There is no reason 2 inch wide flat could not be
used. (I think I used what I had laying around)



Self-adhesive
magnetic strip
to hold door
closed, need
about 2 ft.

Bottom plate, 1/4 in. thick, 13 in. x 12 1/2 in., need 1
1/4 in. thick, 2 1/2 in. wide flat, lower front and back,
10 in. long, need 2 (could also use 2 in. wide)

Figure 2: Outer stand

Figure 3: Outer and inner stands plus various additional parts text

Small bottle type hydraulic jack. (Mine extends from a minimum of 8 1/2 in. to a maximum of 17 1/8 in. including the threaded ram extension.)

Wood blocks:

8 – 1 3/8 in. thick (planed-down 2x4)

2 – 3/4 in. thick

4 – 3/8 in. thick, All 2 3/4 in. wide, 11 1/2 in long, drill 3/8 in. diameter holes for alignment pins. Alignment pin holes through wood blocks must match those in the outer and inner stands.

10-inch long, 3/8 in. diameter spikes, drive through leg holes into the ground for additional rigidity on bare ground. 2 – 1/4 in□ attaching around anvil.



Figure 4: Assembled anvil stand showing height range text

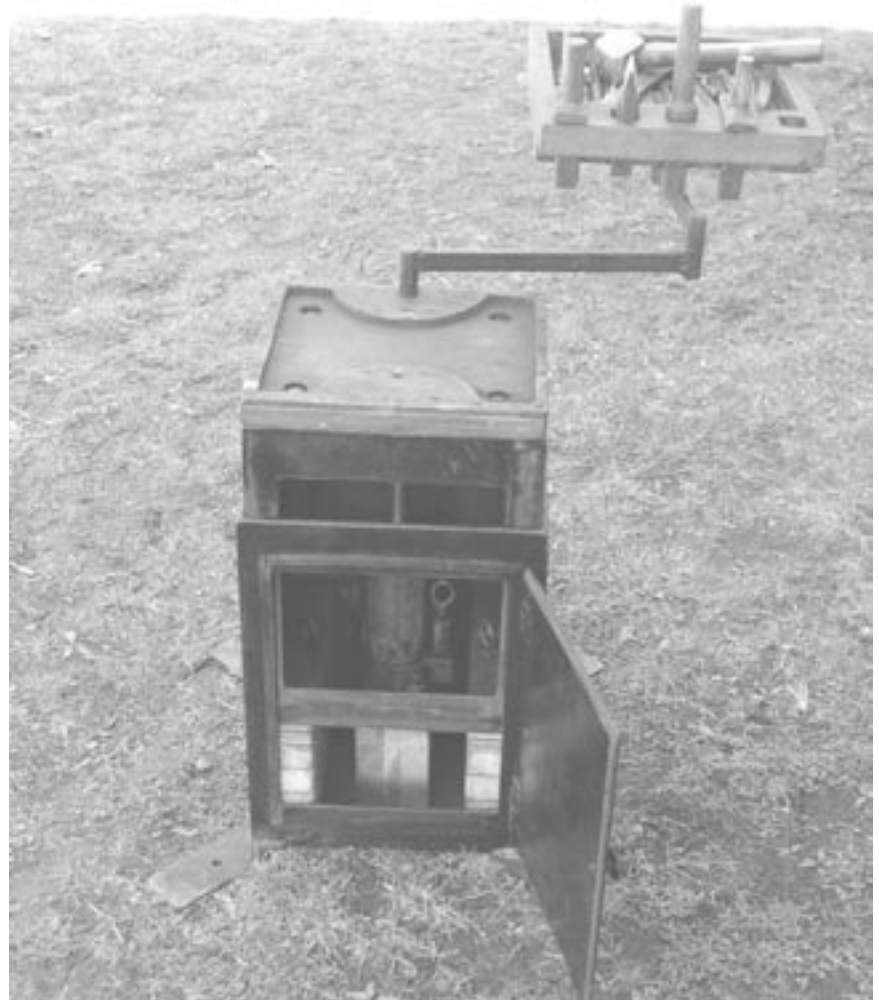


Adjusted to minimum height, 16 ¼ in. from plywood base to ground. My anvil (154 lb. Arm and Hammer) is 11 ¼ in. high. Top of anvil is 27 ½ in. from ground, works well for people about 5 feet tall when adjusted to this height.



Adjusted to maximum height, 23 ½ in. from plywood base to ground. With anvil installed, top of anvil is about 34 ¾ in from ground, which works well for people about 6 ft. 3 in. tall.

Figure 5: Adjustable anvil stand, shown with pivot arm and tool caddy.



Shop Tip: Small tubing bender

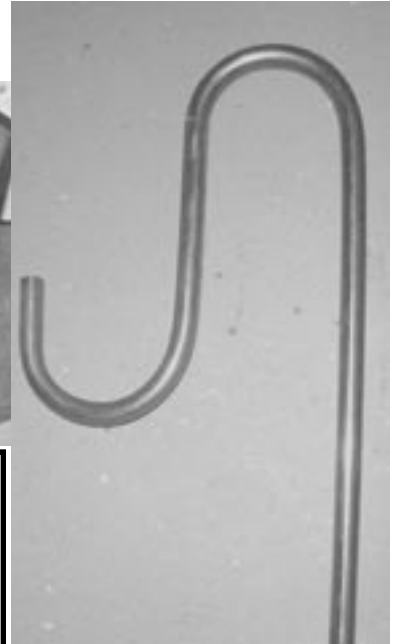
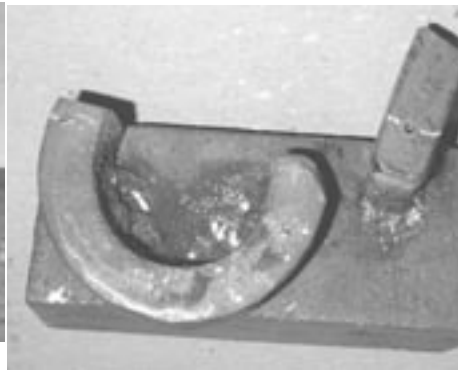
By Bob Ehrenberger

I needed to bend some thin wall 3/8" tubing for a lite fixture I was making. I figured that if I just bent it over a piece of pipe the tubing would probably collapse. So I wanted to make a bender that would support the walls of the tubing to give a clean bend.

The first step was to fuller a 3/8" groove in a piece of 1/2" sq. stock to create a piece of channel.

I then bent the channel to the radius I needed for my bender and welded it to a piece of angle. Part of the channel was used as a stop so that there was a curved surface to hold the tubing.

The punch marks on top of the bender are to index the tubing so I can make duplicate pieces.



Flea Market Find

At Jacob's Cave flea market last year, I stopped by one of the tool dealers there. Laying on one of the tables were these two small English wheels. I asked a helper how much and he told me a ridiculous low price. I have known the owner for several years, and have spent a lot of times with him at auctions, I went and found him and asked if the price I was quoted was correct and the owner said yes. I told him the price was way too low and did he want to reconsider before I bought the wheels. His reply was I have brought them here for several years and no one has shown any interest and he wanted to get rid of them. At that point I bought them.

A few days later I went out on the web to research what I had bought, I hit the jackpot. These wheels are in perfect condition, the brass wheels look as if they were hardly ever used and I have both complete pieces. The frames have no nicks or damage.

A patent was granted to Stiles-Herman Equipment Company, a St. Louis, Missouri company, in 1922 as (Ford Motor Company Model T Fender Roller Machines).

These wheels will only do small work, either by hand or clamping the wheels in a vice. The larger wheel has a depth of ten inches and the small wheel a depth of four inches. For small work they are great.

So, while at flea markets look very close at what might be laying on trailers under something else, while talking to the owner, I asked him where they had been at the other six to eight times he had been there and I did not see the wheels then or I would have bought them then and he replied probably on the trailer and he had not laid them out till this time. No wonder he did not sell them before.

Good finds sometime comes in small packages.

Don Birdsall



Buy, Sell, Trade

Individual Classified ads

For Sale: Anvil's Ring Magazine collection Sept '73 thru Present. \$350 Bob Woodard Edwardsville, IL 618-692-6508

For Sale: Heavy duty blacksmith leg vice \$40.00 or best offer.
Robert Kimble, Auxvasse, MO PH: 573-386-5707

Commercial / Resource ads

Services:

Beverly Shear Blades Sharpened. Remove blades from shear and ship to Clay Spencer, 73 Penniston Pvt. Drive, Somerville, AL 35670 \$41 includes return postage, additional cost for deep notches or blades previously sharpened at angle.

Little Giant-- We can do repairs on any or all components of your Little Giant front assembly. Contact Roger Rice, Midwest Machine, 6414 King Road, Nebraska City, Nebraska 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, or (417)-321-2286 cell

Back issues of Jerry Hoffmann's **Blacksmith's Journal**,
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.

Mathias Penn is offering introductory & beginning blacksmith classes. 417-683-9000 Tytheblacksmith@yahoo.com

oldschoolcrafts Blacksmith School, Joe Davis 12625 Lawrence 1175, Mt Vernon, MO 65712 phone 417-461-0387 on the web www.oldschoolcrafts.org E-Mail oldschoolcrafts@hotmail.com

David Norrie blacksmithing school in Colorado
David Norrie 303-859-0770 <http://www.forgewithintention.com>
or <http://www.davidnorrie.com>

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

Send check/money order for \$30 to Clay Spencer, 73 Penniston Pvt. Drive, Somerville, AL 35670-7013. Includes postage to US and Canadian addresses. Other countries e-mail clay@tirehammer.com for price. 256-558-3658. Tire Hammers for sale contact me for current price.

New England School of Metalwork

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

Power Hammer page

I've taken some time to collect and post old info, catalogs and brochures on power hammers. The link of our NEB web page to this information is: http://www.newenglandblacksmiths.org/power_hammer_info.htm Ralph Sproul

Rochester Arc & Flame Center! Featuring Blacksmithing, Welding & Glass Blowing Over 30 classes available for all levels of interest, rocafc.com 585-349-7110

For Sale: Power Hammer instruction DVDs. \$125 per set. Clifton Ralph, 4041 W 47st, Gary, Indiana, 46408 (219)980-4437

Products:

Scrub Oak Forge: We still have the Ozark Pattern anvils, and hand hammers. For more info on the tools, contact Bob Alexander at 636-586-5350 or scruboak4@netzero.net

Heavy-Duty Fry Pan Blanks 9" diameter, tapered sides 12 or 13 gauge steel (approx. 2 pounds) no predrilled holes for the handle \$12.00 each..1-4, \$10.00 each..5-9, \$9.00 each...10+. shipping:\$5.00 plus\$1.00 each frypan Bob Tuftee 563-332-4800 6 Hollows Court LeClaire, IA 52753

L Brand Forge Coke now packaged in 50 pound bags on pallets. Send your zip code for a quote on price including delivery. 1-678-360-3521 or LBrandForgeCoke@aol.com.

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

Buy, Sell, Trade, Continued ...

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.

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

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

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:

Blacksmith business cards. I would like to put together a collage of Blacksmith business cards. Bring them to a meeting or mail them to me with your dues.

Bruce Herzog
2212 Aileswick
St. Louis, MO 63129

Demonstrator needed for the Lake City Rendevous & Black Powder shoot, April 18th-19th Buckner, MO . (816) 249-3194

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 there is a sign up link on the bamsite.org or send an E-Mail to Bernie Tappel at bamweb@embarqmail.com and he will get you signed up.

Check out back issues of BAM newsletter on www.bamsite.org. It now has a search feature to help you find old articles.

Ad Policy: Blacksmith related ads are free to BAM members. Personal ads will run for two issues. Resource ads are ongoing at my discretion. Send to bameditor@centurytel.net, or call 573-633-2010

LEARN HOW TO MAKE YOUR LITTLE GIANT POWER HAMMER WORK HARDER THAN EVER!

March 20-22, 2015

Please join us for the 23rd annual Little Giant Rebuilding Seminar! Although we did pass ownership of Little Giant to our machinist Roger Rice in 2013, Sid Suedmeier will continue teaching the rebuilding class at his shop at 420 4th Corso in Nebraska City.

We carry on the tradition of our good friend Fred Caylor of teaching how to make Little Giants run well and hit hard.

The 2 ½ day class is a hands-on format. You will help transform a 25 LB Little Giant hammer from functional but sloppy condition into a well tuned, quiet, hard working hammer. Sid Suedmeier, former owner of Little Giant, will share all his knowledge and experience gained from working with Fred and from 23 years of repairing and rebuilding Little Giants.

An old style 25 LB Little Giant will be rebuilt during the class, and a new style machine will be on hand to demonstrate proper assembly and adjustment of both styles.

The class is held in Sid's shop in historical Nebraska City, Nebraska. The city has a wide variety of cafes, outlets (including Pendleton Woolen Mills), antique and gift shops, orchards, wineries and museums.

IF YOU HAVE A LITTLE GIANT, THIS CLASS IS FOR YOU!

No experience is required to attend this class. Past classes have been comprised of students, retirees, artists, welders, doctors, farriers ...anyone who wants to learn will benefit from this class. We approach the rebuilding process using tools that can be found in the average home workshop.

If you are in the market to buy a power hammer, this class will make you an educated shopper. If you already own a Little Giant, or any other brand of power hammer, this class will teach you how to get the best performance possible.

The class costs \$95, refundable up to 7 days prior to the class; advance registration is required. We limit each class to 25 participants. The classes start at 9 AM sharp on Friday, and usually end by Saturday evening. The schedule runs Sunday until noon in case we encounter any exceptional problems in rebuilding, and to answer remaining questions.

When we receive your registration, we will send you a city map, along with travel and hotel information.

Airports are located in Omaha (45 miles north), Lincoln (50 miles west) and Kansas City (125 miles south).

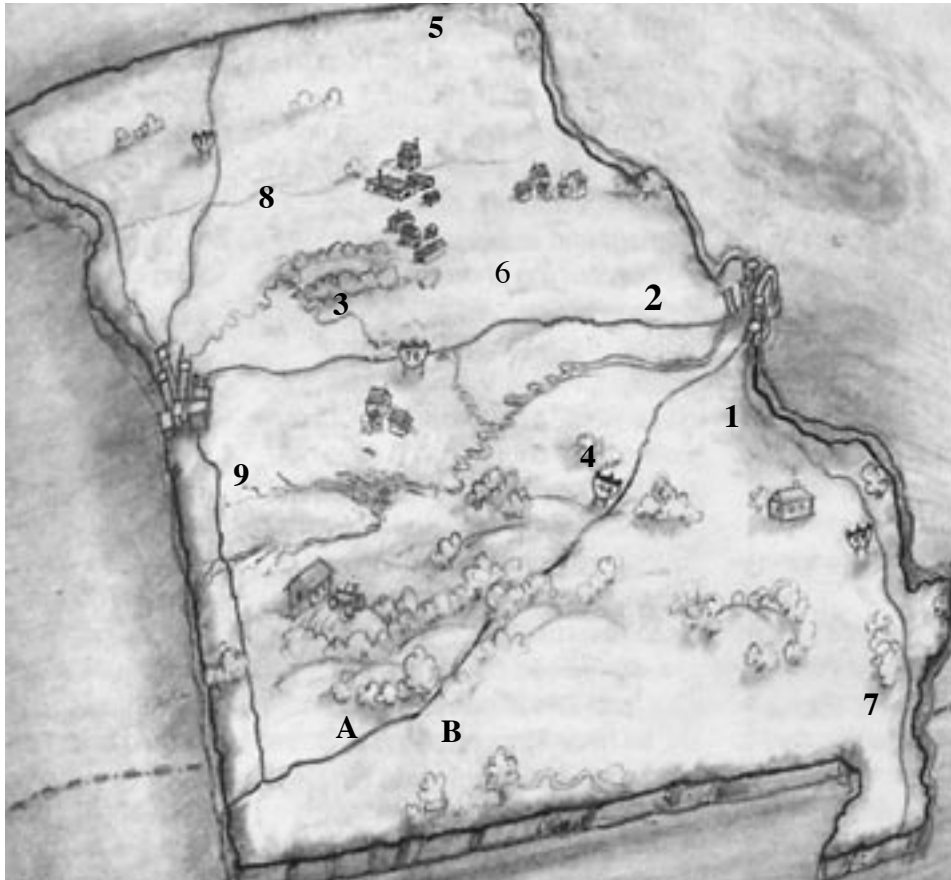
Please call or email if you have any questions, or prefer to register by phone. You can reach us at 402.873.6605 or SidsShop@windstream.net.

Suedmeier Enterprises, 420 4th Corso, Nebraska City, NE 68410.

Need Coal ?

Check on Availability

Coal Captain: Bob Alexander



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

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

3. Doug Clemons, (660) 595-2257
29377 Durango Avenue
Malta Bend, MO. 65339

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

5. Joe Hurley (660) 379-2365
or (660)-626-7824
Rt1 Box 50
Downing, MO. 63536

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

7. Bob Maes, 573-866-3811
Rt. 1 Box 106 K
Millersville, MO. 63766

8. Fred Warner (660)-659-2406
cell (660)-247-1477
303 N 2nd st.
Wheeling, MO 64688

9. Bryan Lillibridge, (660)-638-4536
1545 NW 300
Urich, MO 64788

Price \$14.00 per bag BAM members, \$19.00 per bag Non-members, \$12.00 per bag at Bob Alexander's
Coal keepers earn \$3.00 a bag. NOTE: PRICE CHANGE

A. Non BAM coal \$.40/lb check \$.35/lb cash bring your own containers. Tim Johnson Springfield, MO 417-886-8032
B. Good blacksmithing coal for sale \$13 a 50# bag with bulk delivery available. .
Matthias Penn Rt. 1 box 479-S Ava, MO. 417-683-9000 E-mail: tytheblacksmith@yahoo.com

Upcoming Events:

February 21st - MTS Number 1, Eminence, MO. see ad below

February 28th - MTS Number 2, Eminence, MO. see ad below

March 21 - BAM meeting Chris Miller, Doniphan, MO, 573-996-4931, food is provided, Trade item: pair of strap hinges

Match 28th. - Newsletter submission deadline

April 30th - May 3rd -**BAM Ozark Conference**, Sedalia, MO

May/June 2015 - BAM meeting Ned Digh, Ham's Prairie, MO 573-642-9502

July 2015 - BAM meeting Matthew Burnett, Cameron MO ph: 816-575-2798

August 2015 - Missouri State Fair, Sedalia, MO contact Kent Harbit (660)-647-2349 to volunteer

August 2015 - Hamilton Steam show,

September 12th, 2015 - BAM meeting Rolla, MO Don Birdsall The trade item:Blacksmith art (every day items laying around our shops, unfinished items, mistakes, etc turned into an art object that could be displayed indoors or outside.

November 2015 - BAM meeting, Phil Cox, Hamilton, MO 816-583-4337

January 2016, - BAM Meeting, A & K Cooperage, Higbee, MO 660-456-7227

MTS WORKSHOPS*

Beginner Workshops:

Number 1 Saturday, February 21st 2015

Number 2- Saturday, February 28th 2015

Location:

Ray Scott:

HCR 2, Box 196

Eminence, MO. 65466

No daytime phone number,

Evening telephone number 573-226-5541

Start time 8:00 am. Sharp.

Students should be there and ready to go at 8:00 am. Both days.

Students must wear safety glasses while instruction and workshops are being run.

Students need to bring a lunch both days.

Water will be available.

Students should wear cotton or wool clothing, no synthetic type of clothes.

Gloves and aprons are not provided.

Must be a BAM Member (Insurance requirement) \$30.00 dollars for a one year membership.

Cost of each workshop is: \$30.00 dollars per student per day.

Instructors are: Ray Scott and Don Birdsall 573-364-7223

If not a member, send membership dues (\$30.00 dollars) to: *Bruce Herzog* Application at front of newsletter.

Send payment for workshops to Ray Scott at the above address.

Any questions call: Ray Scott or Don Birdsall

New Members

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

Berardi II, Nick
5851 Wornall Road
Kansas City, MO 64113

Bickel, Andrew
305 Carriage Crossing Road
Lansing, KS 66043-1549
573-465-3122

Bryson, Richard
34843 East Hwy 240
Gilliam, MO 65330
bigwaterfoul@yahoo.com

Buban, Roger
812 West Maple
Centerville, IA 52544
641-856-8320

Dittmar, William
132 Hayes Road
Buffalo, MO 65662-6306
wrdittmar@yahoo.com

Easton, Eric
2401 N.W. 53rd Terrace
Kansas City, MO 64151
nhaynes@kc.rr.com
816-872-5012

Holst, Gabriel
7078 East Farm Road 84
Strafford, MO 65757
dave@holsts.com
417-736-4444

Kuhn, Jonathan
1376 North 125th Avenue
Hull, IL 62343
jpkartman@gmail.com
217-257-1717

Matchen, Chuck
38374 North 9th Street
Spring Grove, IL 60081
chuckmatch@att.net
847-913-6488

Montez, Steve & Chris
7562 County Road 100
Carthage, MO 64836
Chriss@ecarthage.com
417-358-6319

Musick, John
3474 Riley Road
Wellsville, KS 66092
jandgmusick@hotmail.com
785-727-8060

Nelson, Dan
18431 West 170th Terrace
Olathe, KS 66062
ksrdtoad@yahoo.com
913-522-3560

Ostermiller, Dale
2300 NW 53rd Terrace
Kansas City, MO 64151
dostermiller@kc.rr.com
816-665-5299

Ottaway, Brian
211 North Centropolis 7th St
Ottawa, KS 66067-8001
785-255-4304

Pugh, John
30 Morning Wind Court
St Peters, MO 63304
the5pughs@me.com
417-496-5188

Quinn, Brian
5032 Westport Drive
Jefferson City, MO 65109
bquinnen003@gmail.com
573-462-6636

Rhoads, Josh
1411 South Ohio Apt A
Sedalia, MO 65301
josh_rhoadscc@yahoo.com
660-221-5928

Ryan, Jeff
10405 High Drive
Leawood, KS 66206
tylerryan359@att.net
916-269-4254

Schlee, Eligabeth
8342 Richard Avenue
St. Louis, MO 63132
314-560-5400

Shedd, Stan
HC 2 Box 750
Eminence, MO 65466
stanleyshedd@gmail.com
573-226-1342

Sherwood, Ben
254 Purina Drive
Gray Summit, MO 63039
benrsherwood@gmail.com
314-210-9959

Stewart, Mary
HRC 67 Box 82
Fremont, MO 63941

Thomas, Brian
31164 Ferrier Lane
La Plata, MO 63549
btblacksmithing@gmail.com
660-342-9142

Weyand, Derek
Rt 2 Box 25441
Piedmont, MO 63957
derekweyando01@gmail.com
573-778-6561

Woods, Harold
8033 State Road O
Fulton, MO 65251
573-826-9020

Wolf, Brandon
31800 Kahrs Road
Smithton, MO 65350
573-569-3878

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@charter.net

Next Meeting: March 21st, Doniphan, MO



Location:

Tom Kennon Blacksmith Shop,
Pioneer Heritage Homestead,
Doniphan, MO.

Host: Chris Miller

Phone: 573-996-4931

Food: Yes,

Trade item: Pair of strap hinges