

BAM

July / August 2016



July / August 2016
Volume 33, No 4

Blacksmith Association of Missouri

Table of Contents

Presidential Address	5
Editors Ramblings	7
Meeting Minutes	8
Old Folks Hammer In	10
Trade Items	12
Shop Tips	14
Conference Update	21
The Tailgate Area	24
New Members	26
Coal Map	27



Editors

Jon and Heather McCarty

Contributing Writers

Bob Stormer

President's Message

Phil Cox

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 \$30/year; a portion of this amount is for a subscription to this newsletter for one year. Editorial inquiries should be addressed to : Jon McCarty 815 Miller Street, New Haven, MO 63068; (636)359-1246, or send an email to: bameditor2015@gmail.com BAM membership inquiries should be addressed to: Bruce Herzog, 2212 Aileswick Dr. St. Louis, MO 63129 (314) 892-4690 or send email 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 are 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?

ABANA Membership Application

Primary ABANA Charter Affiliation: _____

Name: _____

Address: _____

City: _____ State: _____

Phone: () _____ Zip: _____

New Member Renewing Member

Includes a Subscriptions 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

From the President

By Phil Cox

It's been a busy summer for BAM members, conference in May, meetings in June and July. Then many members going off to demos, or classes.

Bob hosted one of the hottest meeting I have ever attended. Kind of a small group but we had good demos, food and visiting. That is what a meeting is all about. Nice to meet some new members. It seems like every month we have 2 or 3 new faces.

Margie and I left for Santa Fe the day after the meeting, so I did not get to attend Matthews Burnett's grand opening of his school. From what I have seen, it's looking good. I now have a place to refer all the calls I get for training. Good luck Matt.

Our trip to Santa Fe was one hot drive, western Kansas was 102 on Sunday. Monday morning was a little better. We spent the night in Dodge City and checked out Front Street. We watched a shoot out in the street, went to Boot Hill, and several businesses. I had a tough time keeping Margie out of the Long Branch. We both wound up in jail (I have pictures). The blacksmith shop was disappointing as it had not had a fire built in years. We took a bus tour and learned several things about the history of the area.

We got to Santa Fe Tuesday and started trying to adjust to 7000 feet elevation. The weather was the best, day time highs in the 80's and low's in the high 50's low 60's single digit humidity, the "dry heat" does make a difference. Helmut's shop don't even have a fan and was very comfortable everyday.

Walking into his shop brought back memories of Tom's shop. New hammers everywhere, some still wrapped from shipping others in various stages of disassembly. Helmut and his crew were busy trying to prepare for the workshop on Friday. Getting the new hammers broke in and tuned can be time consuming plus he had sold a hammer and it needed to be prepared for shipping to Ill.

Wednesday afternoon and Thursday I put in a some long days getting hammers ready. We concocted a plan for what we were going to do on Friday and Saturday. We decided Sunday would be left up to the students.

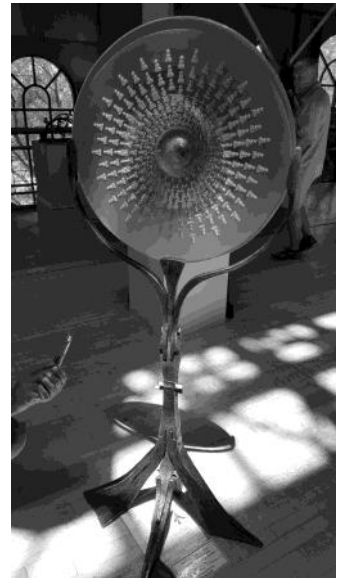
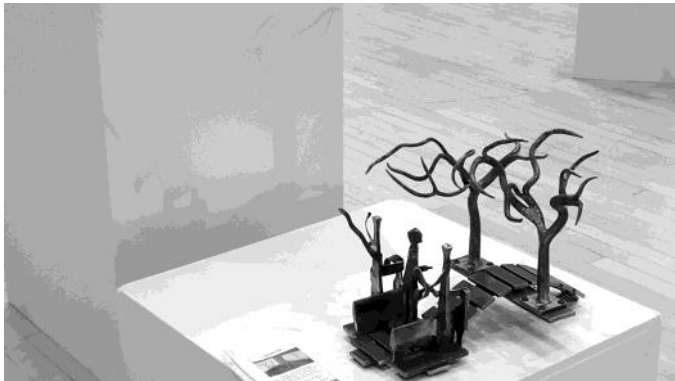
Friday morning after introductions we ran some hammers to set a base line for what we about to do. I had never had the side off a hammer before but that is exactly what we did. We had 6 people removing brackets and bolts so it only took a few minutes to get the side removed. I was doing what I do best standing back and barking orders. With the side removed it was easy for everyone to see how a hammer works. We didn't really forge anything with the side off but we did run the hammer. Helmut took some videos that I will try to share with you. With the side off the changes I made were much easier. Putting the side back on was somewhat of a challenge. The holes were not lining up but with a few well placed pry bars we got it back on. I don't recommend removing the side if you don't have to. The valving change did increase the power of the hammer. We devised a test to compare the hammer before and after the mods. There is no doubt the hammer hits harder after the changes.

Sunday we helped students with problems they were having, or answering questions they had about hammers in there own shops. When it was all said and done I learned more than anyone in the class. Everyone wants to do it again next year so we will see what happens.

The drive home was long but it was so good to be home. Sorry if I have bored you with all this but it is all I have done the last few days so you are stuck with it.

We have several events coming up, one of them being the state fair. I hope many of you can take part in the fair. We get a lot of people stopping
Continued on page 26...

2017 ABANA Conference Gallery



From the Editor

By Jon McCarty

Well I have been busy these last 2 months. I attended the ABANA conference as a set up crew member for the second time. Pat McCarty runs the crew and asked me to help out at the Delaware Conference. The set up crew is a great group of guys from all across the country, including several from BAM. I consider it a privilege to work with them.

The ABANA conference in Salt Lake City was a blast, as usual. I got to meet up with a bunch of the other newsletter editors. Many of whom I have spoken with thru email only, so it was nice to be able to put faces to names.

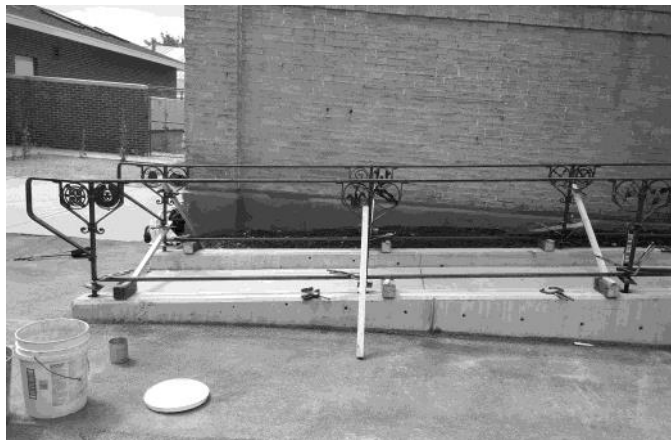
We had a meeting about better ways to communicate between editors as well as chapters. The editors agreed on the need for better ways to share our content as well as better lines of communication between chapters and with ABANA. This would mean not only easier ways for me to provide content but also the possibility of demonstrator trading or article requests. I am currently working with another chapter helping them with content for an article both chapters will benefit from.

The conference theme this year was teaching. Many of the demo tents were set up with extra forges to allow those attending to try what they learned. There were 3 teaching areas set up one of which was for kids. I saw many hard working kids there from the time they started in the morning until the shut it down in the evening.

There were several projects done again this time including a railing project for the fairgrounds where the event was held. This was don as a ring project but with a much smaller ring than some of the other ring projects I have seen in the past. I really like the ring and think another BAM ring project might be a good idea with this smaller ring design.

For those not familiar, the ring project allows all members a chance to make a ring of a specified diameter from a specified stock size. The resulting rings are combined into a larger project that then could be

auctioned off or maybe we could make something for the fairgrounds that maybe they need. I thought the railing was a great project. It left a piece of our group behind for everyone who comes after us to enjoy.



July Meeting Minutes

By Bob Stormer

Phil Cox opened the meeting by thanking Bob Ehrenberger for hosting the meeting and doing the demonstrations.

Bruce Herzog reported that we had slight net decrease in membership. We now have 634 members.

Mike McLaughlin gave brief report on the 2017 BAM Conference. The main part of his message was that "WE NEED A NEW CONFERENCE CHAIRMAN". Mike deserves a much deserved relief. He also mentioned two of the demonstrators have been signed up and Mike will provide more details later.



Kent Harbit had Missouri State Fair tickets for anyone who is planning to work in the BAM tent at the fair. If you plan to help out in the BAM tent call Kent @660-647-2349. The fair runs from August 11th through the 21st, and BAM will be set up every day. Please volunteer to help out if you can. All you need is a bucket of hand tools and whatever material you want to work on. Anvils, vises, and coal are provided. You can also sell your products at the BAM tent. BAM gets a lot of good, inexpensive publicity at the

fair. If you are relatively new to blacksmithing there are experience smiths there to help.

Mike Gentsch reported that he has not heard anything from Steve Culver about pursuing a joint BAM Conference and ABS Hammer-In, so we need to start



lining up a knife maker demo for the 2017 conference.

The training curriculum for forging classes that Phil talked about at the June meeting is an ongoing effort.



July Meeting Photo Gallery

By Bruce Herzog

The BAM conference chain making event that Phil also talked about at the June meeting has drawn some attention and final guidelines for the chain link dimensions and other specifics will be determined at the November BAM meeting.



Matthew Burnett has started the Missouri School of Blacksmithing and is having an open house at his school on July 30th, in Cameron, MO. You can call Matthew at 816-575-2798.

Bernie Tappel reminded everyone about his “Old retired guys and anyone who wants to a take day off” hammer-in scheduled for July 28th at his shop in Osage Bluff. Check the BAM website for directions.

There was nothing new to report on the set up of the new MTS trailer.

Bernie Tappel reported that Scott Payne has taken a class at John C. Campbell with the help of a BAM

scholarship. No other scholarship news was available.

Karen Bouckaert still has a trade item from the June meeting that needs to be picked up.



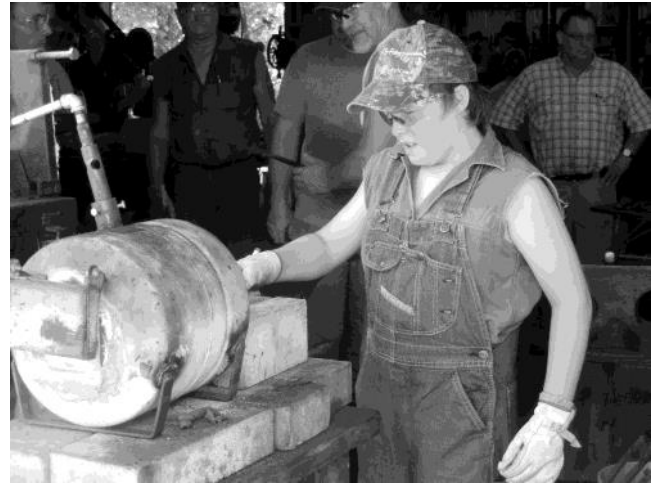
No news was available concerning the MU Extension request for a blacksmith teacher and use of the MTS trailer that was brought up at the June meeting.



2nd Annual Old Retired Guys & Anyone Who Wants to Take A Vacation Day Hammer In ~ Hosted by Bernie and Patti Tapple

By Bob Stormer

Bernie and Patti Tappel hosted their 2nd mid-week hammer-in at the Osage Bluff Blacksmith Shop, and it was a rousing success again. I've heard an estimate that over 50 people were there. But that's not the best part. The best part was that Tom Patterson didn't show up a week early this year. Only kidding about



the BAM website, there is lots of eye candy in the form of traditional tooling that would make any blacksmith proud. There was even a scrap pile out back where a few people found some treasures. There are quite a few photos posted on the BAM website "BAM Photos Page". Bernie had plenty of fans strategically placed around the shop, so even though the temperature and humidity were high, it was very workable in the shop. There was also plenty of water available so everybody could stay hydrated.

that – the "real" best part was the range of ages of the people who were there. If you look at the attached figures 1 through 4, it looks like the age range is probably from 7 to 70. It's a terrific legacy for BAM when the young are willing to learn from the older members who are willing to teach.

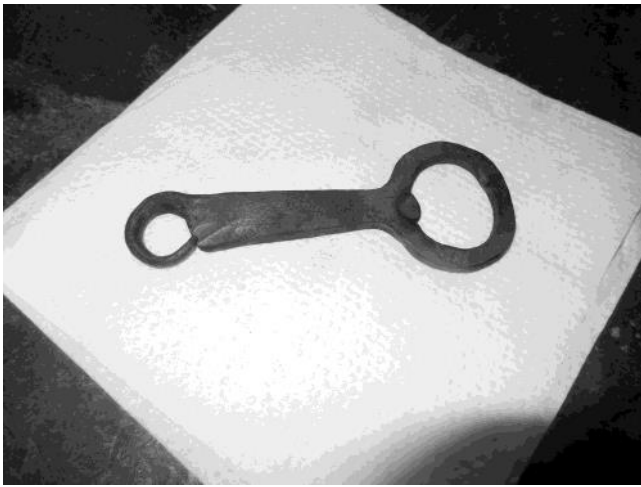
There were four forges, three coal and one gas, and 4



anvils set up. If you've never been to Bernie's shop, you may be able to tell from the pictures posted on



Bernie was the first I saw working at a forge and in the first 90 minutes he made a bottle opener, Figure 5, a tomahawk, Figure 6, and some tongs. During the hammer-in, I saw someone making a leaf, a hammer, and Bernie started a courting candle. He used the fixture shown in Figure 7 to cold bend the spiral part of the

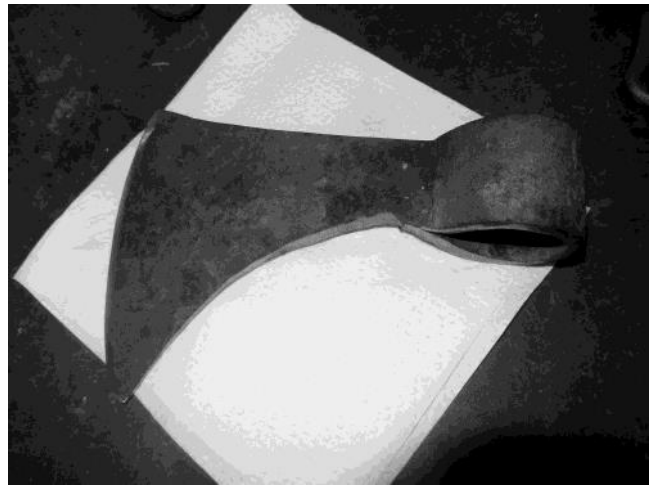


courting candle in Figure 8. I'm not sure if he finished it at the hammer-in.

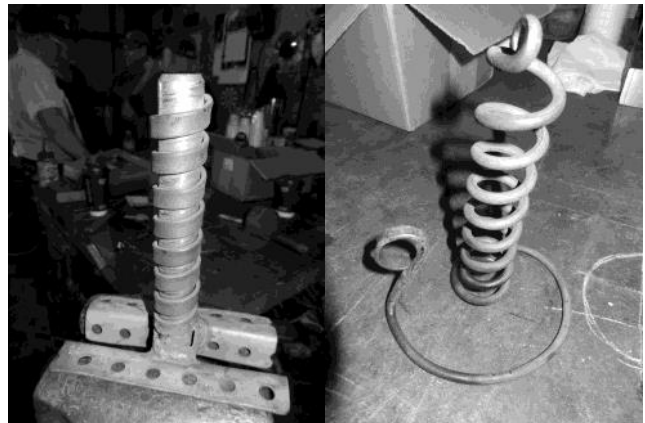
A major part of any hammer-in is the vittles. As usual, the ladies took care of most of the food preparation and setup. Check Figure 9 for a picture of the hammer-in MVPs. Mike Gentsch cooked some delicious beans in a dutch oven, Figure 10.



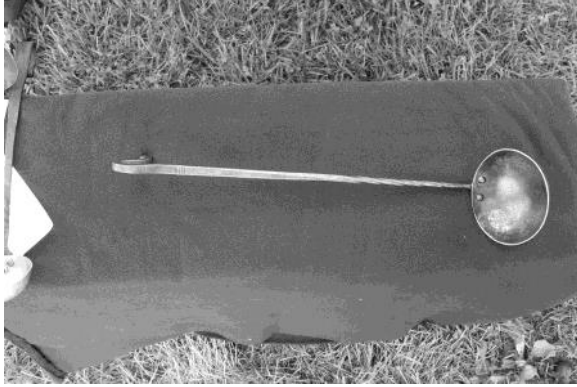
If you have never been to one of the “local” hammer-ins, you are missing an important part of blacksmithing. These local hammer-ins provide a chance for one-on-one instruction, without a large crowd watching. The positive impact of the local hammer-ins on the art of blacksmithing has been discussed over the last few years at BAM meetings. I believe there are other informal gatherings of blacksmiths who get together on a project of common interest, or one that requires more than one person. I would encourage anyone



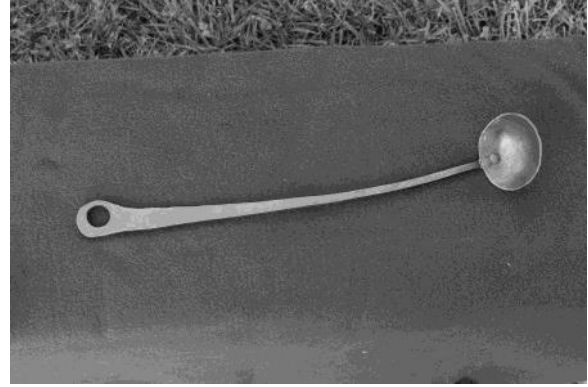
attending these undocumented gatherings to notify Jon and Heather McCarty, editors of the BAM newsletter, about your efforts. It doesn't need to be a full blown write-up, just a paragraph explaining what you accomplished, with or without pictures, and possibly listing who attended. With more than 600 BAM members, mostly in Missouri, there are multiple opportunities for getting together between our bi-monthly BAM meetings. Please don't interpret this narrative as suggesting a replacement for the formal meetings, but rather a supplement to them.



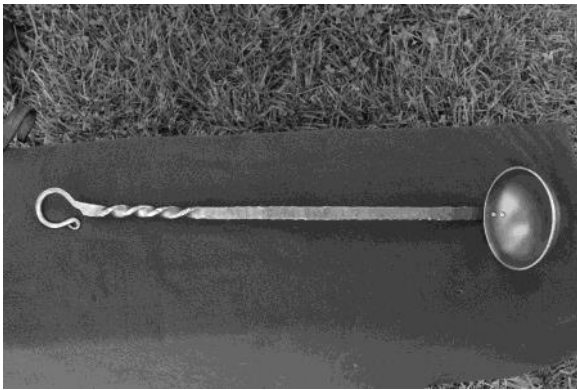
Trade Items ~ July Meeting



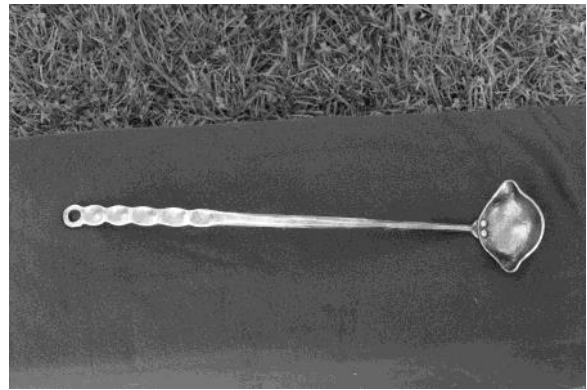
Made By: Matthew Burnett
Traded To: Willey Bagley



Made By: Mark Lawson
Traded To: Matthew Burnett



Made By: Bob Stormer
Traded To: Chris Miller



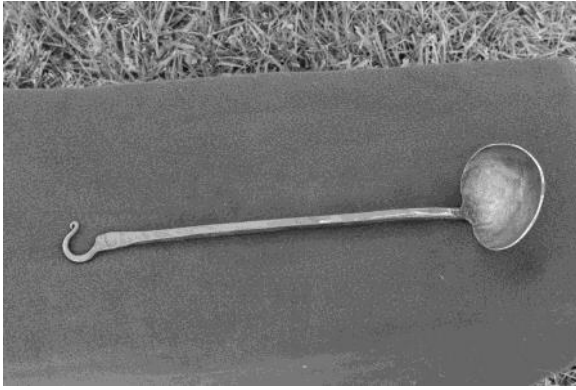
Made By: Mike McLaughlin
Traded To: Bob Stormer



Made By: Willey Bagley
Traded To: Matt Dickson



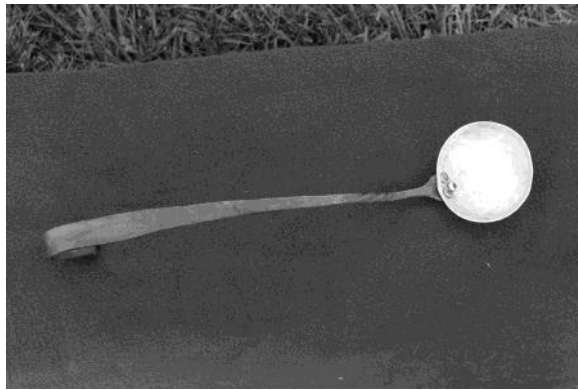
Made By: Chris Miller
Traded To: Bob Eherenberger



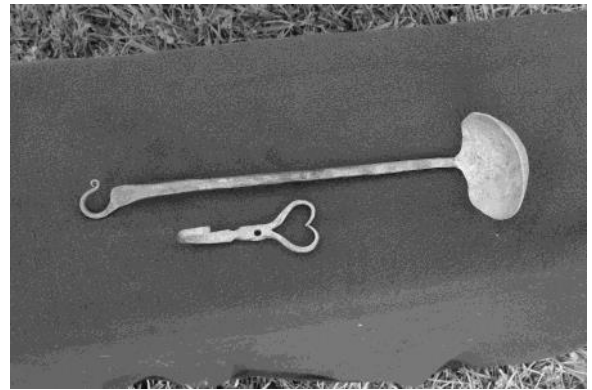
Made By: Bob Ehrenberger
Traded To: Rob Ahrens



Made By: Matt Dickson
Traded To: Mark Lawson



Made By: Rob Ahrens
Traded To: Mike McLaughlin



Demo Piece Made By:
 Bob Ehernberger

Iron in the Hat ~ July Meeting

Donated by	Won By	Item
Earl Million	Mike McLaughlin	Rake Tines 1/2" & 3/8"
Don Anders	David Rosemann	Twisted Handle
????	Earl Million	Farrier & Pieh Tool Catalog
Bob Ehrenberger	John Huff	Demo Piece Hook
Bob Ehrenberger	Mike McLaughlin	Demo Piece Ladle
Don Davies	Earl Million	Apron
Karen Bouckaert	Willy Bagley	Bag of Broom Corn
Don Davies	Willy Bagley	Hoe Wheel
Bob Ehrenberger	Tucker Snodgrass	Demo Item - Half Bridge Anvil Hardy Tool
Don Davies	John Huff	Leaf Spring
Tucker Snodgrass	Don Anders	Spring
Bob Ehrenberger	Willy Bagley	Ladle
John Huff	Mark Lawson	Horse Shoes
Willy Bagley	John Huff	Lawn Mower Blades
Don Davies	Willy Bagley	Bottle of Rust Desolver

Shop Tips, The Line of Chords

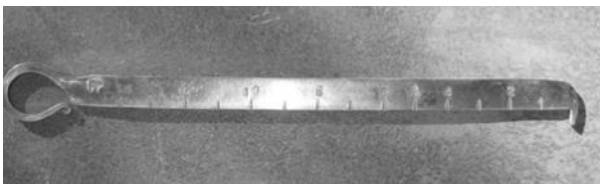
Russell Bartling

Many blacksmith projects do not require precision measurements. In fact, sometimes the best measurement is no measurement at all but rather just to transfer. However, there are occasions where there is no substitute for reasonably precise measurements, especially when angles are involved.

A 12" steel or brass rule can be a very convenient measurement tool for blacksmithing projects. The steel or brass is light enough to be easily handled and carried in a pocket (many overalls and work pants have a pocket tailor made for these) but they are not generally affected by the heat of metal being forged. A tape measure, by comparison, is vulnerable to having the paint burnt off fairly quickly which renders it basically useless.



There are many versions of these rules that are either still available as vintage items or that are still being produced today. Starrett used to offer a blacksmith's hook rule which has a hook on the end for fast and convenient positioning.



Gerald Franklin has a quick project article on how to make a simplified version of a hook rule in the July 2015 Saltfork Newsletter. The newsletter can be accessed online at: <http://www.saltforkcraftsmen.org/Newsletters/2015July.pdf>

There are also many variations of folding rules that have two 12" sections hinged on one end. These usually have various graduations on each side for more convenient use depending on the level of precision required. For example, one side might be graduated in $1/8^{\text{th}}$ of an inch increments and the

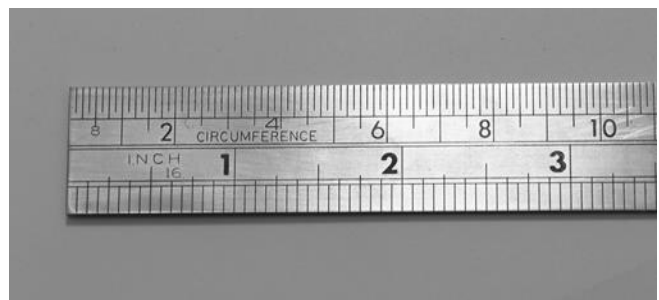
other side in $1/16^{\text{th}}$ inch increments.

Some of these rules are listed as "Blacksmiths" rules and have a few additional features that are sometimes useful. Lufkin and Starrett still manufacture these today in the steel and vintage versions in both steel and brass can be found.

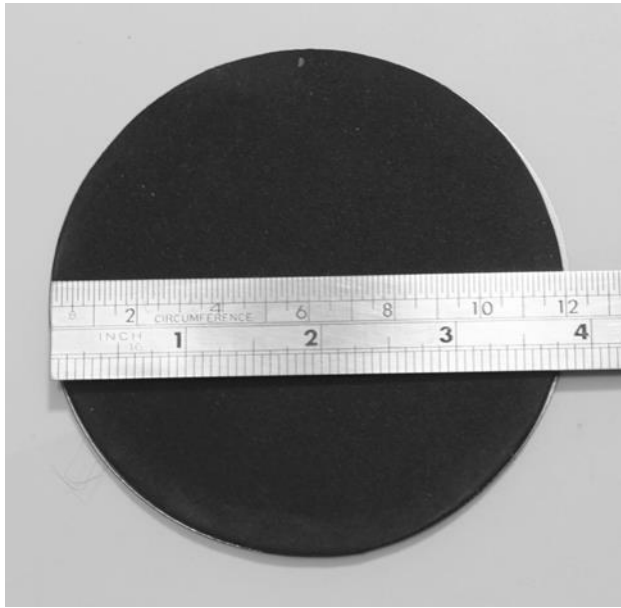
One of the additional features sometimes included on the "Blacksmiths" rules is a direct circumference measurement. You can sometimes find these online by searching for "Blacksmiths Rule" or "Circumference Rule."

Say you want to calculate the length of stock for a collar to wrap a given size of round stock. It is fairly easy to find the circumference for a given diameter by multiplying by Pi using 3.14 in your head (some smiths just use 3). But on larger diameters, this can lead to a larger error. For a 4" diameter circle, for example, the difference between 3 and 3.14 would be over $1/2$ " which might mean the difference between a collar that works and one that adds to the scrap pile. On fractional diameters, the math can be less than convenient without taking time to grab a calculator or paper and pencil.

Enter the Circumference feature of the Blacksmiths rule. This is a graduated section that allows for direct reading by laying the scale across the diameter of anything that can be accessed from the end. The end of a round bar or pipe for example.) Granted, it is also easy to round up some fractional dimensions to help offset using 3 instead of 3.14 for Pi and this method sometimes gets good results. But using the



A direct reading circumference scale on a Blacksmith's rule.

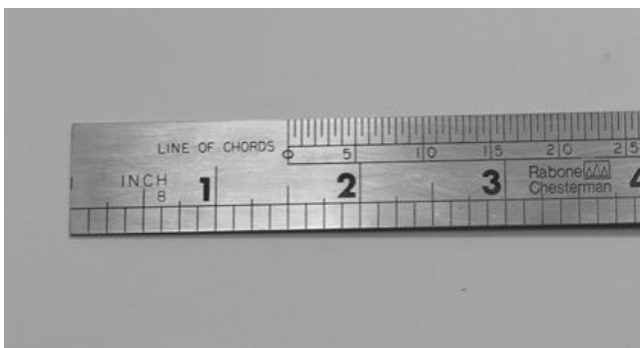


The black circle is 3-13/16" in diameter. Not the easiest circumference calculation to do in your head. The direct reading from the circumference scale shows just slightly under 12" and can be read in an instant. The calculated circumference using 3.14 would be 11.98".

circumference rule, if you have one available, is more consistently dependable and often more convenient.

Another convenience feature built into some of these rules is called the "Line of Chords." This feature may be less well known but can be equally useful. This scale is a bit more rare.

The Line of Chords scale allows for very accurate (in blacksmith terms) angle measurements using only the rule and a set of dividers. These are two tools commonly used and available in most any blacksmith tool box.



The Line of Chords scale. This particular rule is made by Rabone Chesterman and is made in England. Older rules may be marked Rabone and Sons.

Using the Line of Chords is easy and will take much longer to explain the method than it actually takes to use. There may be easier ways to measure an angle, like a protractor, no tool is universal. In some instances, the Line of Chords method will be easier to use.

Say you need to measure an angle of a given piece. If you can open up the folding rule to match the angle, then it can be accurately measured. The Rule of Chords scale on the rule I have is graduated to 1/2 degree increments and is marked from 0 to 120 degrees. Once the angle is set, a pair of dividers is used to take a reading across a fixed mark on each leaf of the rule. This measurement is transferred to the Line of Chords scale to directly read the angle.

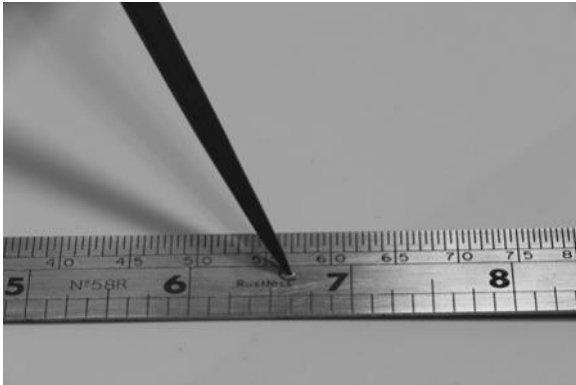
In practical terms, it is difficult to measure angles less than 5 degrees as the fixed marks need at least that much angle and larger angles require larger dividers to make the span.

Using the rule for layout work is also possible by the same procedure applied in reverse. Set the dividers to the required angle measure on the Line of Chords scale, then open up the rule so that the fixed measure points match the dividers. Then the angle can be marked.

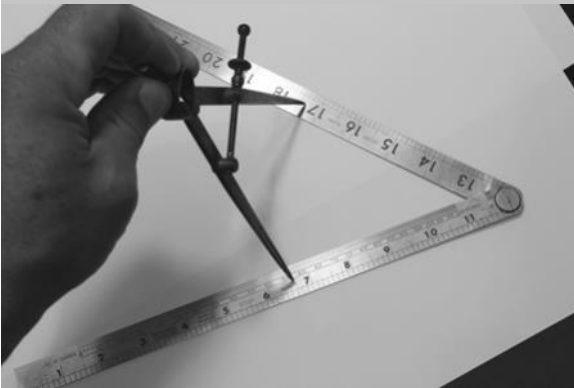
This procedure is easier to follow with photos than text so the following sequence will probably be more clear:



To measure an angle using the Line of Chords, first set the leaves of the rule to match the angle to be measured. In this case, a steel plate.



Each leaf of the rule has a fixed mark for measuring angles using dividers and the Line of Chords scale



After the angle is set, each point of the dividers is set to each fixed point on the

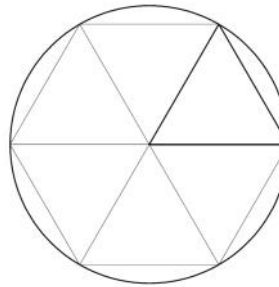
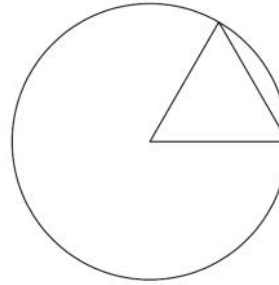
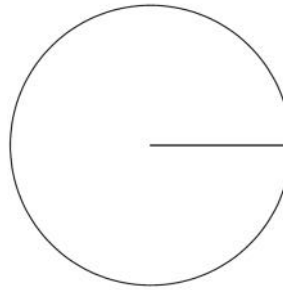


The divider setting is transferred to the Line of Chords scale to directly measure the angle. In this case 49°.

How it works:

You don't need to know how the Line of Chords works to use it. (Unless you have a genetic disorder like me that requires you to find out.) But it would not be difficult to make your own rule when you know what makes this work. The scale graduations are arbitrary and only the relative measures are important.

Take any given circle and draw a radius. Next, draw another radius 60 degrees from the first and connect the ends that touch the circle with another line of the same length. This creates an equilateral triangle with the outer side being a chord of the circle. There are 360 degrees in a circle and a full circle of chords makes a hexagon. This relationship is what makes it work. If you arbitrarily use any unit of measure on your scale to mark off 60 graduations, then place a fixed mark the same 60 units from the vertex of your folding scale, then you have created a Line of Chords rule that can measure in 1 degree increments. 60 units of length equals 60 degrees. You don't have to make a scale that measures in single degrees if you want to use fewer graduations. It is



only important that the length of scale you use to represent 0 to 60 degrees is the same as the distance you place the fixed marks from the vertex of your rule. Sixty units of length must equal 60 degrees. You could make one of these rules any size you like. Just remember that a larger rule requires larger dividers to measure the bigger angles. If you don't want to make one, at least maybe you can impress someone with another real world application for high school geometry!

This may not be a tool that you will use very often. But when you need it, it can be just the solution you need for the job at hand.

Russell Bartling
Editor for the Saltfork Craftsmen Artist-Blacksmith Association

Historic Forge

By Heather McCarty

Shop Notes

September—October 1995

Volume 12 No. 5

Blacksmith's Best Friend

Just a footnote from the FWIW department: I keep a potted aloe vera plant outside the door to my smithy. On a couple of occasions when I've managed to burn myself (no, I didn't pick up the pretty end), I could quickly cut off a plant tip and apply to the burn—with resultant relief. I'm not an herbalist, but I find fresh aloe vera sap (?) to be effective on burns. It's the ideal smithy plant...

—David C. Hufford

Flux Ideas

I've been enjoying the flux discussion. In the middle of it all, we got heavily involved in cleaning out the shop—had to knock down a mud dauber's nest that was right outside, and the kids have been tracking in a lot of fine sand and grit. Seems there's always borax getting spilled from somewhere—I think there must be a hole in the box... and of course, iron filing are a given. I got to thinking I had all the makin's right here, so I just swept up the shop floor, screened the mixture a bit and threw it on a piece of hot iron... darn if it didn't make my best forge weld ever! Should probably include a caution, though—between the dead flies and cat hair and whatever else got included, this stuff's probably deadly.

—FireWil@aol.com

Case Hardening

For case hardening small or slender objects, I use a piece of truck exhaust pipe (offcuts from the muffler shop) closed at one end like the bottom of a tube of toothpaste, with a piece of 3/16" rod tacked on for a handle. Object and Casenite go in, then it gets carefully heated to red and left in the coals, with an occasional check and shot from the blower to keep the heat up. There is a potential RISK: if you quench the whole works, as with quenching any tubular object, you create a steam cannon that shoots the contents of the tube into your face. So dump the object out when it's soaked enough and THEN quench it. The tube scales away after awhile and has to be replaced, so fill up a feed bag when you visit the muffler shop.

There seems to be very little air circulation into the tube during soaking. I think the business with the "tightly closed iron box" dates from the time when

case hardening was done by soaking for many hours in a boxful of hooves, horns, and leather scrap. In that case, admitted air would burn up the carbon source.

—Michael Spencer

Forging Silver

Quenching hot silver anneals it. Forging of silver is normally done with cold metal. Heating sterling causes rapid oxidation due to the copper content. Forging the silver causes it to harden, so the annealing process is important. Heat to a dull cherry red and quench, preferably in a "pickle" solution. The pickle (acid bath) will reduce the copper content in the outer layer of the silver, removing the fire scale (oxidation). The annealing process is also important if you're reducing silver using a drawing plate or rolling mill.

Chemically, I'm sure there are some other relevant details as to what does, or can occur, but practical purposes, that's it. On a side note, this process of heating and pickling is repeated several times in preparation for the technique called reticulation. After doing this several times, you end up with a "skin" of fine silver over a core of sterling, due to the depletion of the copper content from the surface.

The pickle solution I use is a relatively safe, commercially available compound known as Sparex. It's used pretty widely in jewelry (especially silver) work. It can be obtained from almost any jewelry supply outlet. The best source I have found for silver stock is River Gems (aka Rio Grande) in Albuquerque, NM. After comparison shopping, their pricing is very good, their customer service is excellent, and they keep a lot of stock. Silver (or gold) stock is generally priced based on the "spot" market price for silver (or gold), plus a milling charge. The more unusual or specialized the form of the metal, the higher the milling charges. You take the spot price per ounce, and add the milling charge per ounce. This makes it easy to compare vendors, since all you have to do is compare their milling charges. I hope this helps.

—Dave Sebaste

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 on page 2) 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.

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, describe how attending the particular class/event will advance your blacksmithing skills and be helpful in promoting the craft of blacksmithing. Identify the specific skills you expect to learning during this learning experience.

I understand that as a requirement of receiving this scholarship, I will be required to submit an article about the education experience 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 event, I will present a demonstration of the newly learned skills at a BAM meeting or complete a video tape to be place in 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 65251

2017 Conference Update

By Mike McLaughlin

As of right now, we have Lyle Wynn, Allan Kress, and Matthew Burnett lined up so far for demonstrators.

We need a knifemaker. We would like to have the knifemakers in BAM get together to find one.

We also need someone to run the forging contest.

Volunteers for Demonstrator helpers/site captains, setup and tear down, Iron in the Hat, Registration and many other things are also needed.

Someone to take care of the catering would be nice also.

We could use a conference chairman since I will be bowing out after this year.

Thanks,
Mike McLaughlin

2017 ABANA Conference Gallery

Continued



Missouri School of Blacksmithing

2016 Class Schedule

All Classes consist of hands-on learning with instruction by Matthew Burnett

All tools, materials, and home-cooked lunches are provided

\$450 per class

A \$50 non-refundable deposit is due at enrollment

(will be subtracted from the \$450 class cost)

August 12-14 Tong-making- Forging tongs

August 26-28 Blacksmithing 2-Intermediate level

September 2-4 Tong-making- Forging tongs

September 30-October 2 Blacksmithing 1- An Introduction

October 14-16 Blacksmithing 1- An Introduction

October 28-30 Blacksmithing 2-Intermediate level

Private classes and apprenticeships available upon request

Matthew Burnett
Owner and Instructor
3100 NW Winchester Road
Cameron, MO 64429
816-575-2798

Course Descriptions
(on the back)

Course Descriptions

Blacksmithing 1- An Introduction

This course will introduce students to basic tools, their uses, essential safety practices, and the terminology of blacksmithing. It will cover the operations that comprise all forging: bending, cutting, drawing, punching, upsetting and twisting. This class will emphasize not merely performing these operations effectively, but the completion of several small projects. Focus will be directed on fire management, as heat is the primary tool of the blacksmith. Depending on time, students can expect to complete several of the following projects; wall hook with spike, wall hook with punched hole, meat fork, a shovel, rake and watering can for the forge, flux spoon, leaf, S hook, and a ladle.

Blacksmithing 2- Intermediate Level

This course begins where Blacksmithing 1 left off, and is for those that have some experience blacksmithing, but need practice to enhance their skills. This course focuses more on tool-making to equip the student's own shops. Tools will be forged, ground and heat-treated. There will be some discussion on different tool steels, and methods of joinery. Possible projects include: chisel, cold chisel, punch, center punch, a scroll and a stock rest.

Tong-making-Forging blacksmith tongs

The ability to make his own tools is a fundamental aspect of the blacksmith. Tongs are important for holding the forged steel, but the process can be challenging for those just learning blacksmithing. This course will teach students how to make three types of tongs; twist jaw, standard or bar tongs, and bolt tongs, and leave the class with finished tongs and the knowledge of how to make them in the future. Other types of tongs will be discussed, the different methods of forging them, and the advantages and disadvantages of each type.

BAM Tailgate

Buy, Sell, Trade

Individual Classified ads:

Fore Sale: Brand new, unused, 440lb German style Double horn anvil \$1000, Swedge Block 16x16x4 150lb #300, Foot operated upsetting vise \$200, Contact Don Grammond 573-734-6585

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

Real slate chalkboards for your shop various sizes and prices call Matthew Burnett for details (816) 575-2798

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. 417-543-2148
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:

Forge-Aprons offers seven different styles of leather blacksmith aprons; the Original bib, the Short bib, the Full-Cut bib which offers greater chest coverage, the Lap apron, two sizes of Kid's aprons, a Budget apron and our brand new, limited edition Flame apron which features flame imprinted buckles and an anvil engulfed in flames on the logo pocket.
www.Forge-Aprons.com

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

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 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 its 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 BAMeditor2015@gmail.com, or call 636-359-1246



Chad Gillihan
18919 Purvis Road
Pleasant Hill, MO 64080
petspa6874@gmail.com
913-369-5486
Mike Todd
10729 Lawrence 1217
Mt Vernon, MO 65712
mdtodd61@gmail.com
417-466-0697
Jack Smith
4103 Private Road 6320
West Plains, MO 65775
jacksmith999@gmail.com
509-590-7639
Donny Schilling
8579 Old Hwy 60
Mtn Grove, MO 65711
d.schilling@gmail.com
417-830-3164

President Report cont.

By Phil Cox

buy that enjoy seeing our work. We are still faced with hot weather so work safe and drink plenty of water. Do your hardest work early in the day, take a break when the shop gets hot. Use your coal forge as it does not put as much heat in the shop as a gas-ser. If you must use the gas forge think about moving it outside to keep the heat down in the shop.

As always keep your anvil bright and your fires clean.

Phil

Upcoming Events

August 11-21, 2016 State Fair

September 17, 2016—Meeting Fred Arhnold , Bates MO,Trade item: Any useful blacksmith tool for the shop.

November 5, 2016—Meeting Chris Miller, Doniphan, MO



BAM Coal Stations

Price per bag:

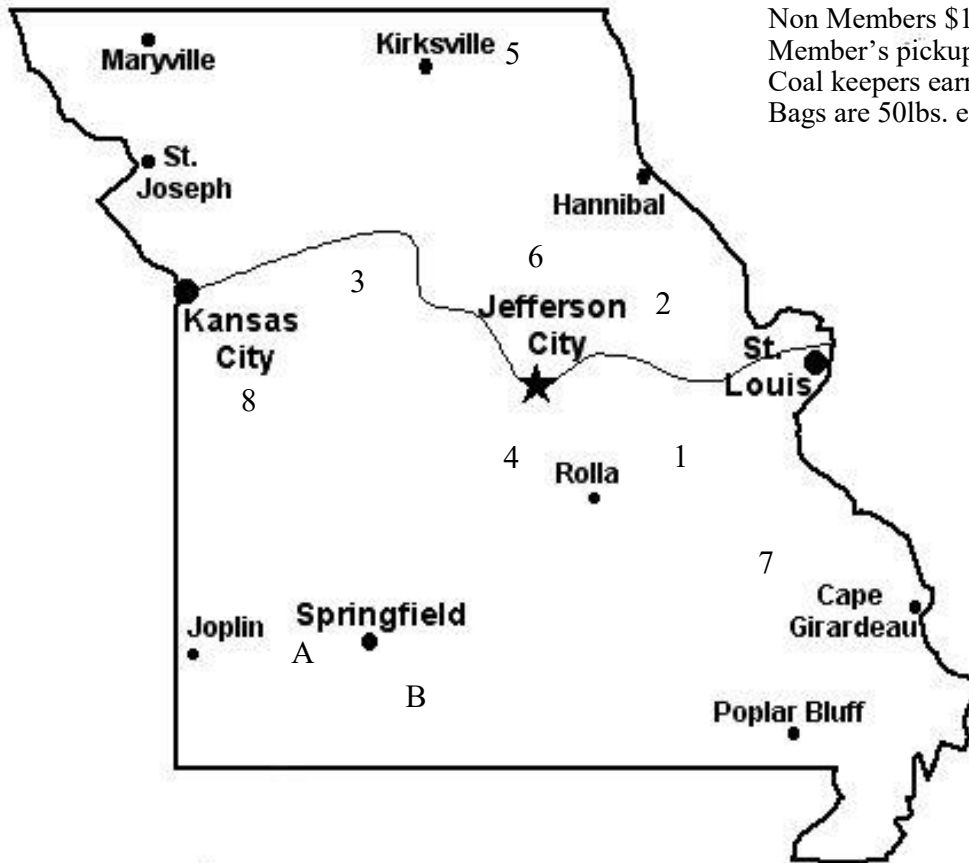
BAM Members \$14.00

Non Members \$19.00

Member's pickup at Bob Alexander's - \$12.00

Coal keepers earn \$3.00 per bag

Bags are 50lbs. each



1. Bob Alexander (636) 586-5350
14009 Hardin Rd.
DeSoto, MO 63020

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

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

2. Ken Jansen (636) 295-5844
2257 Carter Rd.
Moscow Mills, MO 63362

5. Joe Hurley (660) 379-2365
or (660) 626-7824
Route 1 Box 50
Downing, MO 63536

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

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

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

Non BAM Coal

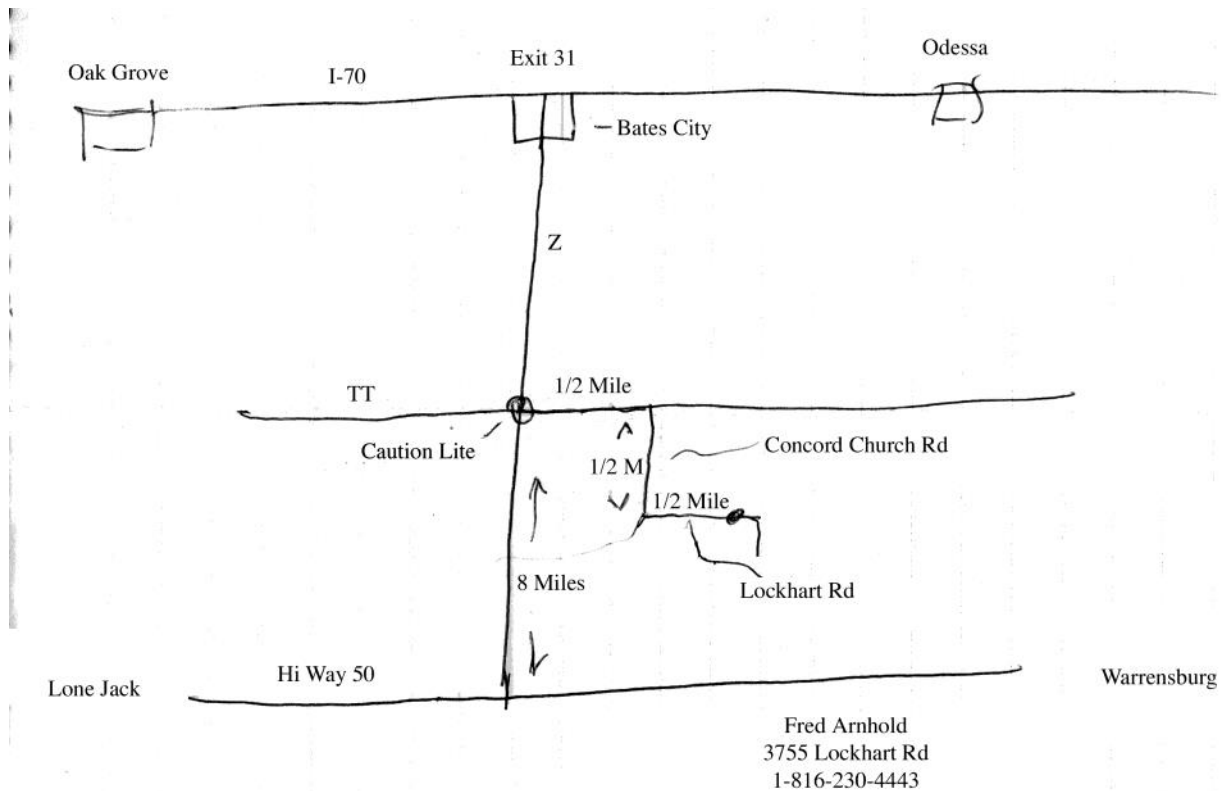
- A. Tim Johnson, Springfield, MO 417-886-8032 - \$.40/lb. check, \$.35/lb. cash. Bring your own containers.
B. Good blacksmithing coal for sale \$12 per 50# bag with bulk delivery available.
Matthias Penn Rt. 1 box 479-S Ava, Mo. 65608. (417)-543-2148.
Or e-mail tytheblacksmith@yahoo.com.

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: September 17, 2016

Fred Arnhold at 3755 Lockhart Rd, Bates City, MO 64011



Trade item: Any tool for the blacksmith shop (Hammer, chisels, punches, tongs, and such).
There will be a catered lunch.