

RAM

MAY/JUNE 2014



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About the Cover

A collaborative project by
Phil Knocke
Melanie Knocke
Pat McCarty
Bob Alexander



Giant Nails/Basket class Pg.23



August 13-16 ABANA Conference



COAL Map pg 26



Meeting Map pg 28

**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 31 No. 3

May-June 2014

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President's Message

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Are you interested in taking a class?

How did you learn about BAM? _____

Memberships are for one year from receipt of dues. Dues are \$25, which includes a subscription to the bimonthly BAM newsletter. Please make checks payable to Blacksmith Association of Missouri.

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- Overseas surface mail\$65 yr.
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- Public library\$45 yr.

See reverse

From the Editor

By Bob Ehrenberger

Ozark Conference 2014 proves that you just never know what to expect in Missouri. The weather wasn't perfect but it came pretty close.

Matthew Burnett gave a nice demonstration Friday morning and then Peter Ross and Jim Crowell demonstrated the rest of the time. There were lots of other activities, tong making class, Hammer making class, MTS beginner's class, Broom tying, basket making, and sock animals.

The forging contest had been a secret until Friday night and then they pulled names out of a hat for partners. The goal was to pair beginners with experienced smiths. I got lucky and had Steve McCarthy for a partner who was one of the more experienced contestants on the beginner side of the ledger. Steve and I worked together well and ended up winning. It was a wild competition and every one had fun.

We had a community meal again this year on both Thursday and Friday nights. With the nice weather it was a good time to relax and chat with old friends. Ken Jansen was our primary grill master using Bernie Tappel's homemade charcoal. Maybe we can get Bernie to teach us all how to do that some time.

Aside activity that seemed to be popular this year was the making of giant nails. Pat McCarty brought a heading tool made from a stump and a heavy steel plate. Some how I never seemed to be in the right place when this was going on, so I missed out. Judging from the pictures Bruce took, they all had a good time.

I also noticed from the pictures that we had good participation from the women this year. There were women in all the classes: tong making, hammer making, beginners class, and in the forging contest. There was also a good supply of young men actively participating in all the activities. I think that the future of blacksmithing in Missouri is pretty secure.

Because of the way that conference matches up with our regular meetings, I will cover both the June and July meetings in the next newsletter. The map to Ned's shop was in the March/April newsletter and the map to the July meeting is in this newsletter.



Meeting info from Ned Digh: June 14th, BAM meeting at our shop.

Trade item is a hammer, any size, metal or wood handle OK. This will be our annual food drive for local food pantry. Bring two canned meat items in exchange for lunch. If you forget to bring the canned meat items, there will be a donation bucket. Esther will have some kind of program for the ladies during the blacksmith demo. There will be entertainment during the lunch hour.

We have water and electricity for 5 RV hookups if you desire to come on Friday. Covered dish supper Friday night, call or e-mail Esther

so she will have a head count for covered dish supper. 573-642-9502. ewdigh@gmail.com

I'm still looking for pictures and stories about homemade anvils. If you have one please send me the info on it. There were a couple at conference, but I probably won't have room in this issue.

I'm planning on having a beginner's class in my shop this Sept. 6th and 7th. I thought we would have both days on the same weekend to cut down on student travel. You can camp here if you like. If you are interested contact me 573-633-2010.

I bought a large fly press from Mike Gentsch at conference. There hasn't been time to set it up, but I'm sure there are some articles about fly presses in the future for the newsletter.

Time is running out if you are thinking about hosting a meeting in 2015. There are only 2 months left July and November. Contact me or new president Phil Cox if you are interested.

The next Newsletter submission deadline is July 26th.

The generosity of BAM members is unbelievable. I won the first of the BAM toolboxes the night of the BAM banquet and auction and all I can say is WOW! Thank you so much to everyone who contributed to the box. Many of the donated items filled in gaps that I had in my shop. In an effort to keep with the spirit of giving, I am taking items that I already had and passing them on to other up-and-coming smiths. Again, thanks to all that donated and know that your gifts are already being used. Sincerely, Melanie Knocke

BAM Conference 2014 Minutes

By Bob Stormer

Friday evening after the conclusion of the demonstrations and classes, a brief business meeting was conducted by outgoing president Doug Clemons. The primary focus of the meeting was to elect new officers. Ken Jansen is head of the nominating committee and handled the election process. The four offices that were open for election were President, 1st Vice-President, 2nd Vice-President, and Secretary. Bruce Herzog graciously volunteered to stay on as Treasurer. Since none of the offices had more than one volunteer, and there were no new nominations at the meeting, all offices were filled by the volunteers being voted in as follows:

| | |
|--------------------------------|----------------|
| President | Phil Cox |
| 1 st Vice-President | Steve McCarthy |
| 2 nd Vice President | Bernie Tappel |
| Secretary | Bob Stormer |

Saturday evening after dinner, and prior to the auction, there was another mini meeting that Doug conducted as well. He identified the new officers in case some of those attending the dinner didn't get to stay around Friday evening for the election. He then presented the "Handle on BAM" award, which was made initially for Ken Jansen by Ned Digh, to incoming president Phil Cox. Ken Jansen presented Doug with a very nice artistic grill reminiscent of the grill Ken received as the previous outgoing president. Sorry, I missed getting a picture of that.

Phil and Margie Cox were presented with "Life Memberships" for their extensive and continuing service to BAM.

Don Anders and Karen Bouckaert received the Founders Award last year and passed it on to Kent Harbit for his continuing help on conference registration and state fair activity coordination. Karen also recognized and thanked our loyal vendors for continuing support of our conference. Specifically Identified were:
Dick and Jo Niefeld of Shady Grove Blacksmith Shop
Al from Astragal Press
Dave and Stacy from Chili Forge

Jim Friel won the 50/50 drawing – amount not disclosed.

Melanie Knocke won the first BAM toolbox which was drawn before the auction. Winners of the other two tool boxes were drawn Sunday morning following most of the cleanup.

Phil Cox announced the winners of the forging contest. This year's contest was a team event and consisted of 10 teams of 2 smiths on each team. The task was to punch a ½" hole in each of two ½" thick blocks welding on opposite ends of a ½" round rod about 20" long in the shortest time. The teams were picked by selecting 10 names from the list of 20 participants and then randomly drawing their partners. The pairings were intended to match an experienced smith with a lesser experienced smith.

| | | |
|-----------------------|--------------|----------------------------------|
| 1 st Place | 3 min 30 sec | Bob Ehrenberger & Steve McCarthy |
| 2 nd Place | 3 min 48 sec | Scott Wood & Thomas Ratliff |
| 3 rd Place | 3 min 47 sec | Curt Bale & Charlie Comstock |

Congratulations to all participants.

Esther Digh reminded everyone of the June 14th meeting at NEDCO Forge in Fulton. As usual Ned and Esther will be collecting can goods in lieu of money for the lunch. The can goods are then donated to the Fulton food pantry.

Raffle Results

| | |
|----------------|-------------------|
| Treadle Hammer | Mark Samsel |
| Chili Forge | Tom Patterson |
| Tool Box #2 | Ashley Farnsworth |
| Tool Box #3 | Steve McCarthy |

A Letter From Our Chairman;

I could use a break. I am starting to run out of ideas and I would like to watch some demos. This year I co-chaired with Joe Hurley. We also co-chaired in 2011. I will be here to help anyone that would like to do it. I have a lot of info that I need to compile for the next person. I think bringing in new people and ideas will help keep it fresh. There is also a great group of volunteers that help to get things done. I couldn't have done it without their help. Both Joe and I would be able to co-chair with someone this year to help ease you into it, if needed. We will have to get started pretty quick. We need to have demonstrators lined up by the end of July. I will not leave the group hanging. I would just like to step back a little. I will have a report of this conference at Ned's meeting. I think it went very well. Attendance was up. Demonstrators were great. Weather was great. Classes were full. We did very well financially also. Thanks, Mike McLaughlin

President's message:

WOW! What conference. Mike got us some great weather, even better demonstrators, and always the best people. Margie and I are humbled by the Life Time member award. I am seldom speechless, but when Karen removed that paper covering our names, I just couldn't get any words to come out, thanks again.

Please bare with me as I try to learn about my role as President. I really have very little clue of what I need to do. I am sorry I am not good with names. I do remember your faces but names often elude me. I live by the name tag so please wear them and I will try to do better.

I was very pleased by the participation in the forging contest. Twenty is a great number up from a high of 8 last year. I am sorry that I only prepared for 20 this year as we could have had another team if I had been better prepared. My apology to anyone who did not get to compete. It is always a learning experience for me and I hope many of you learn also. The team concept was something I wanted to try. Teaming the more experienced smith with the younger guys and gals made for some learning and hopefully some new friends. Let me know if you liked it or not. A big thank you to all the participants. You all made a very enjoyable evening.

The Cook Out was a big treat for me again this year. The weather was much better and so was attendance. We had 40 to 45 each evening. Thanks to everyone who brought food but most importantly yourselves for the fellowship. I hope this continues to be a part of our conference and encourage more of you members to join the food and fun. Don't stay away because you cant bring a dish. There is always plenty for everyone.

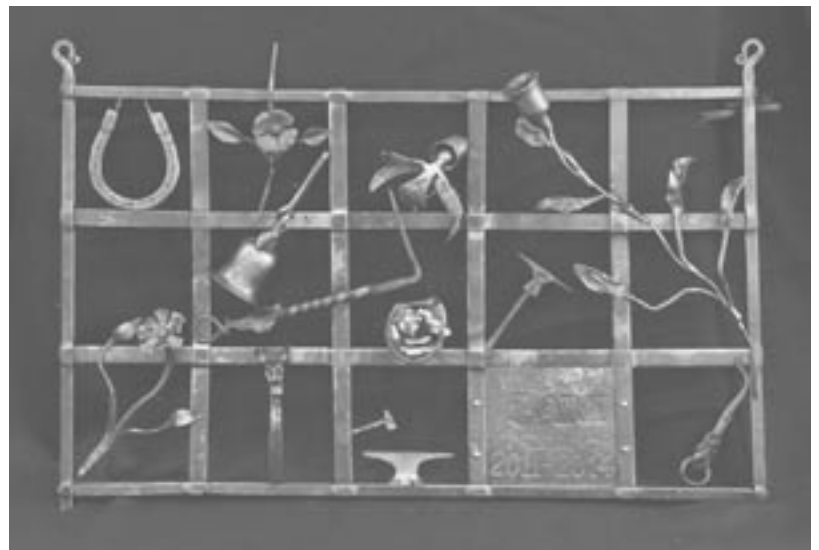
I hope you are in your shops putting the things you learned at the conference into practice. We have a great opportunity watching some of the best sharing their skills with us. I know as a demonstrator it always pleases me to see people using the things I have shared.

I look forward to seeing many of you at Ned and Esther's meeting. Get those fires built and forge a trade item and something for Iron In the Hat. Don't forget your food items. Ned and Esther do a great job of getting food to those who may need a little help.

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



*New President Phil Cox
Explains the rules to the
forging contest.*



*Grill presented to out-
going president Doug
Clemons*

Jim Crowell Demonstration

By, Bob Stormer

Jim started his demonstration with the nomenclature of knife blades. See Figure 1. He also identified various edge geometry options. The best edge for cutting, according to Jim, is a full flat grind with a very slight convex cutting edge. For forging a blade, the gas forge needs to be non-oxidizing. Neutral to slightly carburizing is best.

Jim was using 1 ¼" x ¼" 1084 steel for all his demonstrations. His primary source for blade steel is Aldo Bruno who runs New Jersey Steel Baron. The web link is newjerseysteelbaron.com and the phone number is (973) 949-4140. For Damascus, Jim frequently uses either 1084 and 15n20 or 1095 and 15n20. The 15n20 contains a lot of nickel that provides a good contrast. L6, band saw blades, is a good substitute for 15n20. In the past, Damascus consisted mainly of a high and a low carbon steel such as O1 and 1018, but current thinking is that with two high carbon steels, such as 1084 and 15n20, there won't be as much carbon migration from the high carbon to low. The carbon migration could negatively affect the quality of the edge.

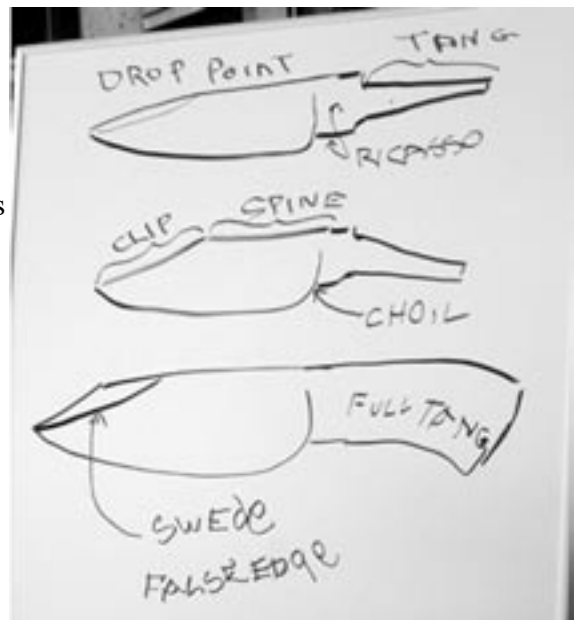


Figure 1



Figure 2

To begin forging the blade, Jim set the end of the steel on the anvil face at about a 45° angle and hammer back into the top corner at another 45° angle. See Figure 2. Hitting it at these angles prevents an alligator (fish) mouth from forming. Jim hammered it to a sharp point in one heat, and used one more heat to flatten it out. He then hammered on both edges to make a gentle curve on the top and bottom edge while keeping the blade flat. When he had the general profile, he “set” the

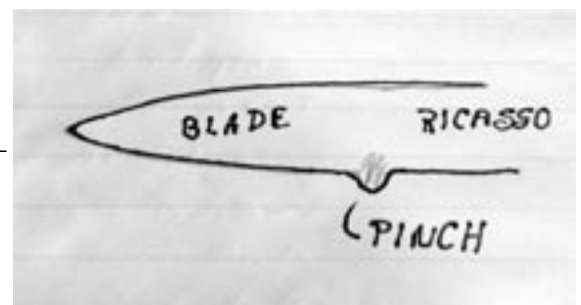


Figure 3

blade length by “pinching” the edge over the edge of the anvil and the edge of the hammer. See Figure 3.

Jim then began shaping the edge of the blade by hammering it from the “pinch” to the point, alternating on both sides. The front edge of the ricasso is formed to the tang side of the pinch. Don't have the ricasso on the anvil face while shaping the blade edge or you will have a one sided knife. Also, don't hammer on the spine. Hammer in a slight distal taper, which is the gradual narrowing of the blade toward the point. Make sure the blade edge and spine are straight and centered on the ricasso. This is where you also need to decide on a drop point (gradual convex curve coming down to the point) or a clip point (either a straight line or concave curve from somewhere on the spine to the point). As Jim said it, “a break in the spine defines the clip”.

If you are going to use a narrow (hidden) tang, fuller the start of the tang behind the ricasso. There is no formula for the length of the ricasso, but if your stamp is going on the ricasso, it needs to be at least that long. If the design is a full tang, skip the fulling step. In the case of the narrow tang, it needs to be tapered top & bottom and side to side. If you are going to angle the handle down a little, this is a good time to bend the tang down so it stays centered in the handle. The full tang only needs to be tapered side to side. In either case, the edge and point must be shaped and centered on the ricasso. A full tang can also be angled down a little help with aesthetics. Jim uses a “flatter” to help straighten the blade and make flat surfaces flat. He also uses a 1 pound ball peen

hammer to “straighten” the forged blade.

Now that the forging is finished and everything is in alignment, it’s time to normalize the blade, i.e. relieve the stress induced by the forging. Jim brings the blade up to critical (non-magnetic), or about 1500° for typical blade steel, and then lets it air cool to room temperature. Don’t heat it beyond the low end of critical. He then does it again, but stops heating it just before the critical temperature, again letting it cool to room temperature. Jim no longer anneals his blades as it is not necessary. (If you are cold stamping your name or logo it is recommended. Jim now electro etches his blades. Another step eliminated by Jim and the old ABS teaching is packing the edge. This was done with a dull red heat on the edge with a small hammer and a tapping motion, which was thought to have reduced the grain on the edge. Apparently that doesn’t hold up to new information about metallurgy.

The next major step is grinding. As Jim put it “Start with a plan”. Stand close to the wheel or platen so you are looking right down on the blade as it touches the belt. Keep both arms tucked in close to your body and use a “swaying” motion to move from side to side. See Figure 4. Safety glasses and gloves are essential. Quench the blade in water when it gets too hot. Since it hasn’t been hardened yet, heat won’t hurt the temper. Good lighting will also help with your grinding.

Jim gets his grinding belts from Pop’s Knives and Supplies, located in Washington, GA. The website is www.popsknife-supplies.com and the phone number is 706-678-5408. James Poplin, the owner, is extremely helpful if you call and explain what you want to do with your grinding. Jim likes to start with a 40 grit 3M 967 Cubitron belt for all the rough grinding. They are about twice the price of normal 40 grit belts but last much longer. The first step is to profile the blade using a round wheel in the following order: Tang Shoulders, Tang Edges, Spine, and Cutting Edge. If you have a full tang, use the round wheel and hollow grind the tang, being sure to leave enough at the end so it can be ground flat to fit the scales properly.



You can also use the round wheel to hollow grind the sides to get through the scale and any hammer marks, but be very careful to NOT go so deep that the following flat grinding won’t clean it up.

The next step is to use the platen to flat grind the blade. Still using the 40 grit Cubitron belt, Jim starts with the sides of the blade and uses a push stick, which is small block of wood about 2” by 3” by ¼” thick. It has a little ledge on the bottom of one end that rests under the spine of the blade to support it and help guide where the pressure is applied. After every pass, look at the blade to see where the steel is being removed and use your control hand and the push stick to apply pressure to the high spots. Leave the edge about the thickness of a nickel. The only way to become proficient at grinding is to practice, practice, and practice, like everything else in blacksmithing. After the sides are ground, the ricasso is ground flat on both sides. It is essential that the ricasso be flat and parallel. The material on the ricasso comes off much faster at the choil than it does at the spine, so go slow and apply a little more pressure on the spine end. Developing the skill to apply differential pressure while grinding will greatly improve your results. Finish the rough grinding by using an 80 grit belt and then followed by a 120 grit belt following the same steps as above.

Heat treating (hardening and tempering) is the next step. Jim uses differential hardening by heating the edge of the blade with an acetylene torch. Start with heating the ricasso and spine near the tip, since it has the most mass to heat up, and you don’t want it to suck the heat out of the choil area. Once the ricasso is heated, start moving the torch to the point and then along the cutting edge. It’s important to heat both sides of the blade. Try to get an even heat along the entire blade with the desirable "Cherry red" color (non-magnetic) about 1/3 of the way up the blade and covering the entire point. Jim puts a wave in the temper line by moving the torch up a little further on the blade in selected

Continued on page 10

Continued from page 9

spots. When you're satisfied with the distribution of the color, stick it nose down in the quenching oil. Jim recommends using heat treating oil at about 120° for hardening. He made a tank using the bottom of an old water heater and left the heating element in it to preheat the oil. A meat thermometer can be used to determine the oil temperature. Jim uses Parks 50 quench oil which can be purchased from Maxim Oil & Chemical 817-293 4645. Using motor oil or a myriad of oils is OK, but the flash point on motor oil is much lower than heat treating oil and is more prone to flare-ups. If you use motor oil, have some way to extinguish the fire: fire extinguisher, lid or something. When you put the blade in the oil, move it back and forth like slicing the oil, not side to side. Once it is cooled to the temperature of the oil, you can pull it out and wipe it off. There should be a grey area along the cutting edge of the blade. You can check it by sliding a good file over the edge. If it "skates" over the edge, you're finished with the hardening.

If the blade gets a little bent during the hardening you can fix it by heating the convex side of the bend to blue and quenching it in water. Don't use a lot of heat, and do this in small increments.

It's best to not leave the blade in the fully hardened state too long, like overnight. There are various ways to temper the blade. A heat treating oven produces consistent results, but is fairly costly. For the demonstration, Jim used a propane torch. This requires paying close attention to the colors as they flow. Start by heating the tang to a blue color. Then grip the tang with vise grips and start heating the ricasso. When it starts to change color, move the flame back and forth on the spine. The idea is to get an even straw color to move to the hardened edge of the blade. Be careful with the point since it's pretty thin and will take heat quicker than the rest of the spine. Patience is a key to successful tempering. Go slow and have a bucket of water close in case the colors start moving too fast. When you get the straw color to edge, quench it in water so the residual heat doesn't travel to the edge. If the edge turns blue before you can stop it, you can go back and harden it again and try again with the tempering process.

During Jim's demo, he made four knives: two full tang knives and two narrow tang knives. He hardened and heat treated three of them. He also used the largest of the three for a cutting demonstration that was very impressive. All four knives were auctioned off Saturday evening after the banquet.

The Following people displayed work in the Gallery

Steve McCarthy
Bernie Tappel
Jim Ratliff
Bob Ehrenberger
Don Anders
Patti Tappel
Walt Hull
Joe Hurley
Phil Cox
Matthew Burnett
Ken Jansen
Bob Stormer
Eileen & John Sherwood
John Sherwood
Eileen Sherwood
Don Birdsall
Bam Members, group project
Clay Spencer

Don Nichols
Phil & Melanie Knocke
Pat McCarty Bob Alexander
Mark Clifford
Ken Markley
Mike Mclaughlin
Esther Digh
Denny Quinn
Christopher Miller
Jim Freil
Larry Lutz
James Crowell
Ken Jansen and Crew
Burt Mannel
Mike Curran
Ian Wille
Vernon Grashorn
Michael Gorzel
George Rousis

Matthew Burnett Demonstration

By Bob Ehrenberger

Matthew started out showing us a work stand that he had thrown together just because he needed one. Then he talked about how he wanted to make one that used traditional methods that he could take to demonstrations and that would bring in an element of design.

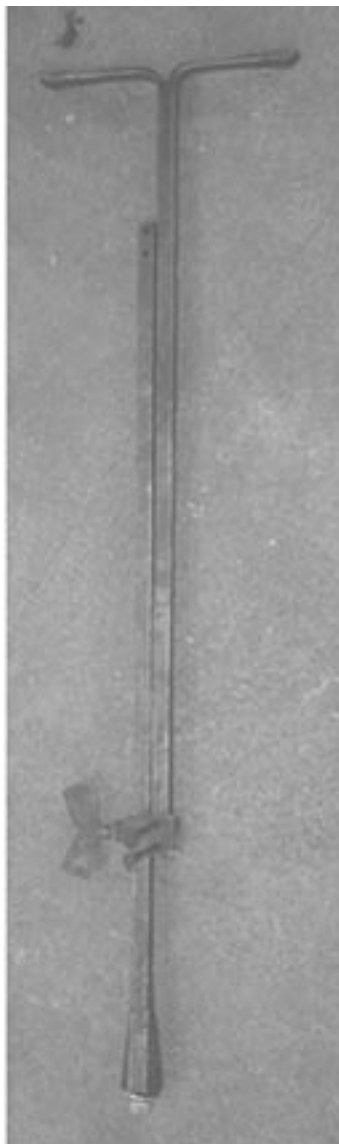
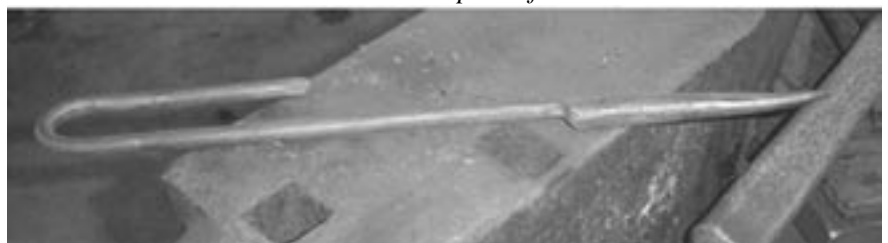
Instead of a simple piece of bent metal for a support bracket (like all my stands) Matthew forged a bracket using a tapered fuller to make a design in each end.

The base for the stand was made from one piece of heavy flat stock. He split one side of a bar to make two of the legs and then forged the other side to the same width to make the third leg. He used the same Tapered fuller and technique to decorate all three feet of the base.



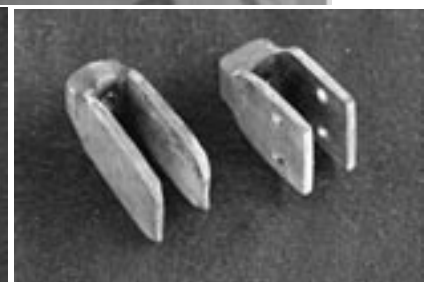
Above: decorative top bar

Below: the tapered fuller



For the moving components, Matthew forged his own wing bolts and the nuts that they go into.

The upright to the left still needs to have another wing bolt and nut assembly to secure the top of the adjustable section. There wasn't enough time to finish the assembly.



Peter Ross Compass Demonstration

By Bob Ehrenberger

Peter made two different compass (dividers), a small friction fit set and a larger set with a screw tightened sliding adjustment.

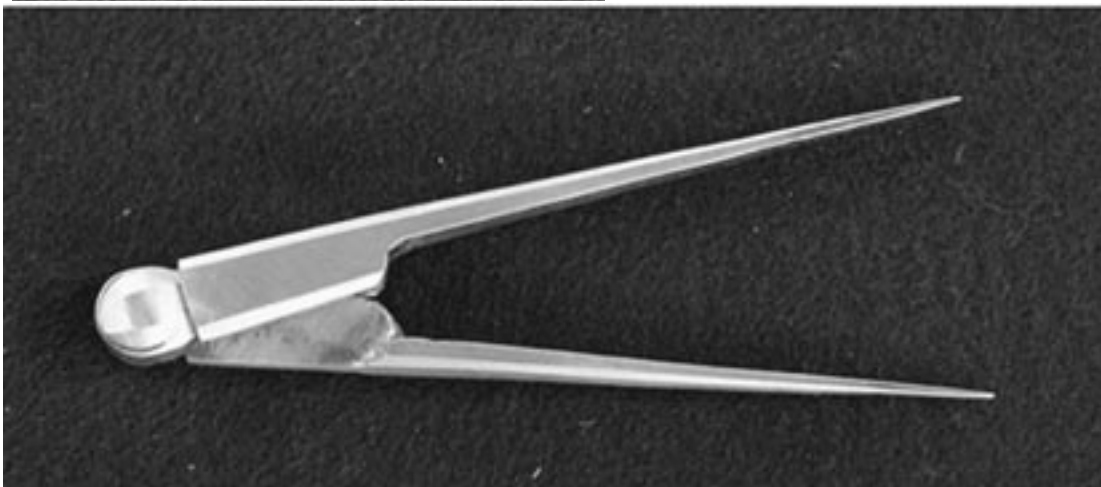
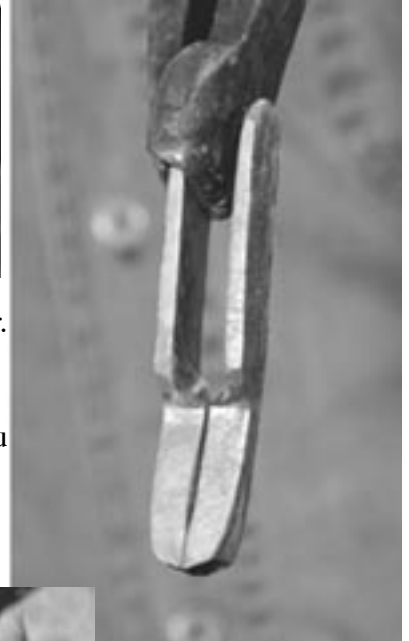
To make the double leaf side of the compass Peter started with a piece of 3/8"sq and forged it down to about 1/4 x 1/2 x 4 1/2. He then did an angled half face blow on each end which were mirror images of each other.



The piece is then notched and folded in half so the two half strikes come together. The folded section is welded into a solid mass and then drawn out into a point.

The single leaf side is made by doing an angled double half face blow to give you a thin section centered on the bar. The other end is drawn out into a taper.

Heat the double leaf piece and forge them together to get a perfect fit.



Peter Ross Large Compass Demonstration

By Bob Ehrenberger

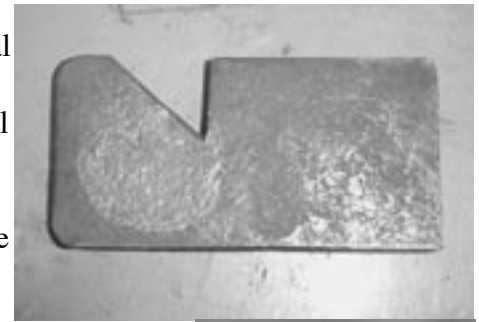
In order to get enough material to make the double leaf side of the large compass, Peter folded back and welded the end of the 1/2" sq. bar.



This end was then split with a hot cut. Instead of a cutting plate Peter used a bolster to finish the cut and protect the anvil.



The slot is then cleaned up using a special jig which forced the bottom of the cut into the configuration needed for the final joint. After driving the piece onto the jig, it is laid on it's side and flattened out which cleans up the inside surfaces of the joint.



The arm of the compass is then drawn out over a "V" block making sure to leave a section clear for the adjustment bar.

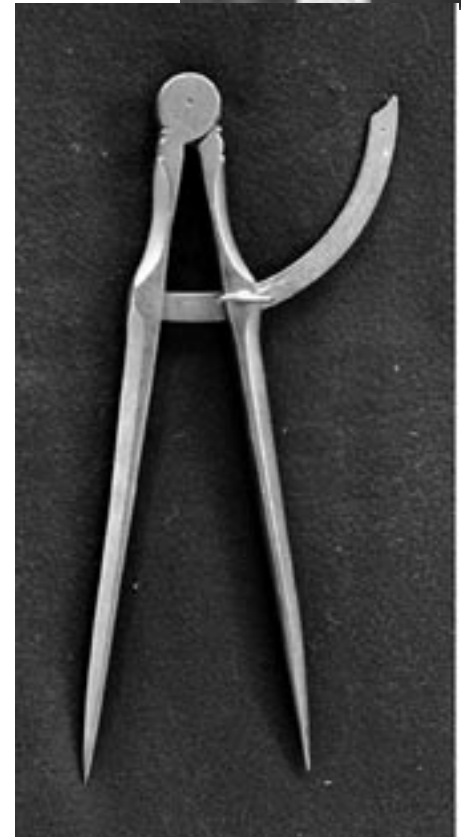


A slot is punched for the adjustment bar.

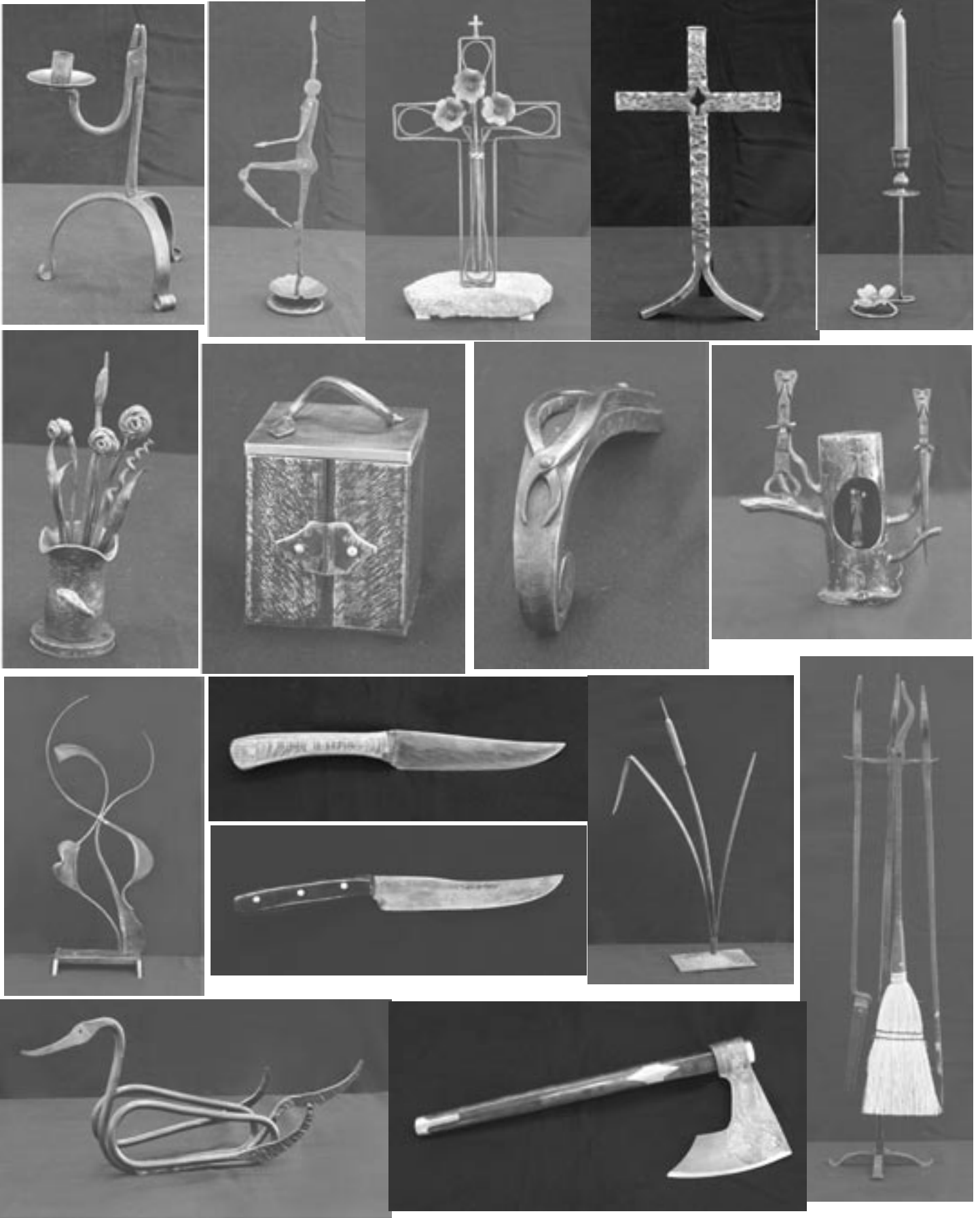


Before forging the tip to a point he forge welded a piece of high carbon steel to the end to give it a more durable point.

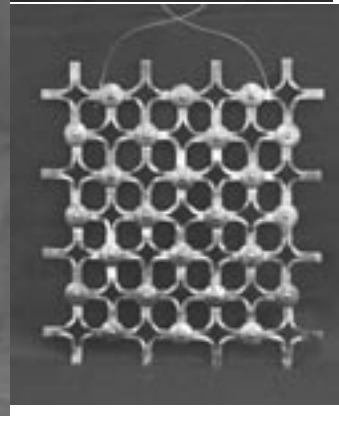
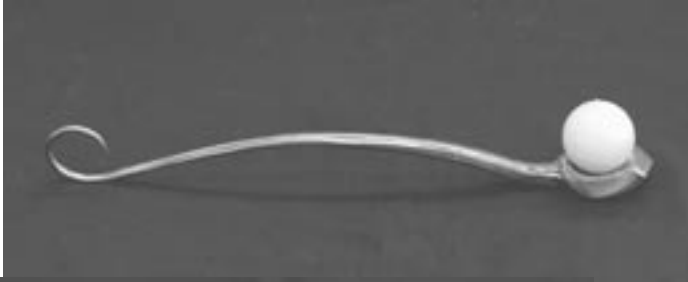
The single leaf side was forged using half face blows to create a thin section in the center of the bar. Then the rest was the same as the double leaf side. Sorry, we didn't get a picture of this end.



Gallery



Gallery



Making Tongs for fun

In preparation for the tong making class, Bernie and Ken had a warm up tong making session on Thursday night. They even gave some private lessons to some students that couldn't wait for the class Friday morning.



One of the results of the tong making hammer-in last Black Friday. Bernie was presented with a plaque with a variety of odd tongs.



Tong Making Class



MTS (Mobile Training Station)



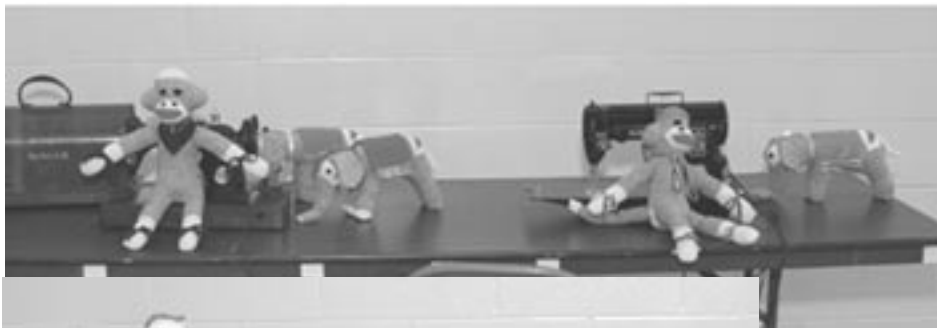
Hammer Making Class



Broom Making Class



Sock Animals



Forging Contest



Forging Contest



2014 Conference in review

I think the conference went well this year. Attendance was up 164 registered.

I would like to thank Peter Ross, Jim Crowell, and Matthew Burnett for their great demonstrations. The bleachers were always full and everyone I have talked to really enjoyed them and learned a lot. Also like to thank their helpers Bob Ehrenberger, Steve McCarthy, Bob Stormer, and Mel Robinette

Bernie Tappel, Ken Jansen, Charlie Comstock, And Ian Wille put on very good tong making class. Thanks for all your efforts.

Don Birdsall had a full Beginning Blacksmith class. Lots of new people getting their feet wet.

What can I say about Nathan Robertson and his hammer class. Fantastic!

Thanks to Mary Jo McCarty, Jo Nietfeld, and Margie Cox for teaching the craft classes.

A big thanks to Kent and Deanna Harbit for their smooth running registration. An extra thanks goes to Jim Ratliff. He comes all the way from Iowa to help with registration and just about everything else.

The gallery was pretty well represented this year. I was

finally able to make something to show in it. Thanks to Walt Hull, John Sherwood and his wife (I forgot her name, sorry), and Scott Stager for getting that set up.

It just couldn't be done without Karen Bouckaert and Don Anders. Karen gets t-shirts, hats, sweatshirts, and things for the boutique. She also wrangles the vendors and shakes you down for raffle tickets.

Patti Tappel, Nancy Gentzsch, and I'm sorry again I forgot the names of the other ladies that helped with the boutique. Thank you for all your help. Cookies and brownies = yummy

The Thurs. and Fri. night BBQ out back has grown big time. Thanks to Ken, Phil, Steve, John, and a whole bunch of others for a great meal.

A big thanks goes to David and Stacie Starr from Chili Forge for their forge donation. If you contact them for anything please let them how much we appreciate their huge donation.

The Ned Digh tool boxes were a hit again. Thanks to Mike Gentzsch for making the boxes and to everyone who donated tools.

I'm pretty sure that I have forgotten to thank at least 30 other people. So thanks goes to everyone else that attended.

Mike McLaughlin



Above: BAM tool box opened up

Left: Bob Patrick

Right: BAM Boutique crew

Below: Matthew Burnett hay rake hold down



Making Giant Nails



Basket Making Class



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

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.

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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

Persimmon Forge **PEDAL HAMMER** sit down treadle hammers for sale. Contact Dave or Betty Edwards by e-mail at djedwards@cableone.net, or write us at 3008 Hacienda Ct., Emporia, Ks., 66801, or call us at (620) 794-5175. For more information, go to www.persimmonforge.com and click on both "Pedal Hammer" and "Video Demo of Pedal Hammer."

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 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.

THANKS TO ALL OUR CONFERENCE VENDORS

PLEASE THANK AND SUPPORT OUR CONFERENCE VENDORS WHEN YOU NEED SUPPLIES OR REFERENCE MATERIAL

ASTRAGAL PRESS / FINNEY COMPANY
– www.astragalpress.com www.finneyco.com
1-800-330-6232

BLUE MOON PRESS – books@bluemoonpress.org
866-627-6922

JACKPINE FORGE – jackpineforge@gmail.com
218-659-4590

LITTLE GIANT POWER HAMMERS –
www.littlegianthammer.com

PHEASANT CREEK BLACKSMITHING -
raykatei@msn.com 515-450-5064

SHADY GROVE BLACKSMITH / REFFLINGHAUS ANVILS – www.blksmith.com

UMBA VIDEO – www.umbaonline.org

BLACKSMITHS DEPOT: did not attend but sent a donation

CENTAUR FORGE: did not attend but sent a donation

NC TOOL: did not attend but sent a donation

A SPECIAL THANKS TO

ASTRAGAL PRESS

CHILI FORGE

SHADY GROVE BLACKSMITH-REFFLEINGHAUS ANVILS & PRAIRE BROOMS

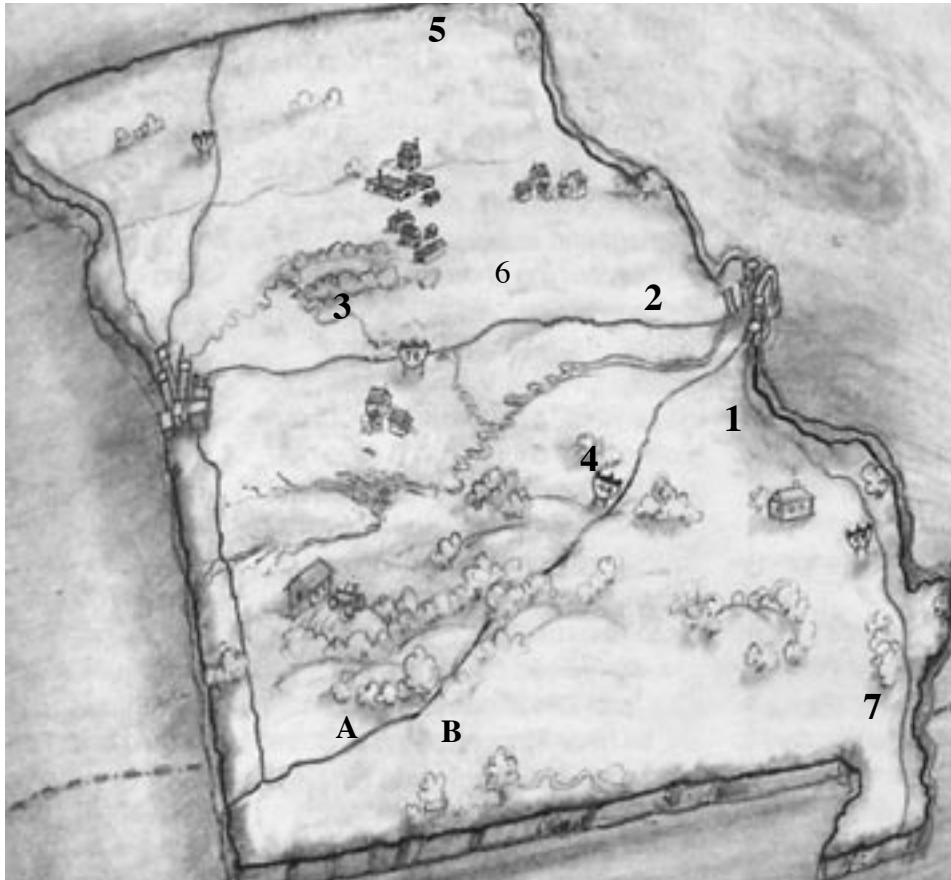
FOR THEIR SUPPORT
AS OUR CONFERENCE SPONSORS

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

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

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:

June 14th BAM meeting Ned Digh, Ham's Prairie 573-642-9502 Trade Item: Handmade Hammer, Meal provided for a food bank donation
The map to Ned's shop is in the March/April newsletter and on www.bamsite.org

June 7th MTS Beginner's class part 1 Sunset Hills, Don Birdsall 573-364-7223

June 14th MTS Beginner's class part 2 Sunset Hills, Don Birdsall 573-364-7223

July 19th - BAM meeting, Phil Cox, Hamilton, MO 816-583-4337 Trade Item: Back Scratcher

July 26th Newsletter submission deadline

August 7-17 - Missouri State Fair Sedalia, MO contact Kent Harbit (660)-647-2349 to volunteer

August 13-16 **ABANA Conference** Harrington Delaware

The Delaware State Fairgrounds August 15, 16, 17 Hamilton Steam show,

September 6,7 Beginner's Class, Bob Ehrenberger, Shelbyville, MO 573-633-2010

September 13th 2014 - BAM meeting Bob Ehrenberger, Shelbyville, MO 573-633-2010 Trade Item: flint striker, Bring a sack lunch

October 1 - Application deadline for November Scholarship awards.

Nov

January 1 - Application deadline for February Scholarship awards.

January 10th 2015, - BAM Meeting A & K Cooperage, Higbee, MO 660-456-7561 Food will be available

March 2015 BAM meeting Chris Miller Doniphan, MO

April 1 - Application deadline for May Scholarship awards

April 30th - May 3rd 2015 -**BAM Ozark Conference**, Sedalia, MO

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

September 2015 BAM meeting Rolla, MO Don Birdsall

MTS Workshops (Mobil Training Station)

Number 1 beginner workshop Saturday June 7th 2014.

Number 2-beginner workshop Saturday June 14th 2014.

Location: Lou Mueller, 12951 Maurer Industrial Court, Sunset Hills, MO. 63127

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) \$25.00 dollars for a one year membership.

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

Instructor: Don Birdsall 573-364-7223 e-mail: birdsalldon@gmail.com

If not a member, sends membership dues (\$25.00 dollars) to: Bruce Herzog, 212 Aileswick Drive, St. Louis, MO.

Send payment for workshops to: Don Birdsall, 11570 CR 5480, Rolla, MO. 65401

Any questions call: Don Birdsall, 573-364-7223 E-mail: birdsalldon@gmail.com

New Members

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

Allder, Lewis
336 Liberty Lane
St. Charles, MO 63303
lallder2@att.net
636-922-2027

Graas, Alison
18880 Model Realty Road
Wildwood, MO 63069
awgstl@aol.com
314-616-1193

Jenek, Jonathan
1673 Road N
Emporia, MO 66801
jonjenek@hotmail.com
620-757-0941

Lillibridge, Bryan
1545 N.W. 300
Urish, MO 64788
steven.lillibridge@kcpl.com
660-638-4536

Miller, Tim
4741 State Route W
West Plains, MO 65775
timatplp@gmail.com
417-247-0290

Shields, Timothy
8888 SE Highway 69
Cameron, MO 64429
ts2225@swbell.net
816-632-2887

Crane, Alan
7205 South 39th Street
Bellevue, NE 68147
allymishymoto@yahoo.com
402-250-6575

Green Jr, Donald
20910 Pike 255
Bowling Green, MO
63334
573-470-9913

Kirkland, Kerry
653 Dietrich Road
Foristell, MO 63348
wildwayhoofcare@gmail.com
636-459-5460

McCullough, Roger
Rt 2 Box 27-57
Seymour, MO 65746
417-683-2664

Nelson, Matt
3443 Linda Drive
Festus, MO 63028
mwncontracting@gmail.com
314-280-5341

Smith, Paul
P.O. Box 1211
New Boston, TX 75570
pbsjr44@valornet.com
903-628-6698

Cruse, Conner
1201 West Jackson
Chillicothe, MO 64601
conner_cruse@yahoo.com

Hallum, Dustin
154 W Little Oaks Road
Rolla, MO 65401
573-364-5190

Lange, Steve A
1034 CR 724
Belle, MO 65013
slang@commandweb.com
573-690-5130

McLane, Rob
1412 Cedar Lane
Bismark, MO 63624
mclanex4@yahoo.com
573-315-9316

Roberts, Jonathan
1619 Paddlewheel Circle
Jefferson City, MO 65109
jcroberts01@gmail.com
573-619-7019

Steinhauser, Samuel
3833 452 Road
Stanberry, MO 64489
steinweld19@gmail.com
660-235-0222

Graas, Alison
653 Dietrich Road
Foristell, MO 63348
wildwayhoofcare@gmail.com
636-459-5460

Hogya, Larry & Dee
10457 W Center Road
Omaha, NE 68124
l.hogya@cox.net
402-391-6326

McNeil, Paul
236 Borgmann Road
Marthasville, MO 63357
vandiq@aol.com

Ruble, Scott
514 North 4th Street
Festus, MO 63028
scott.ruble@hotmail.com
636-208-2654

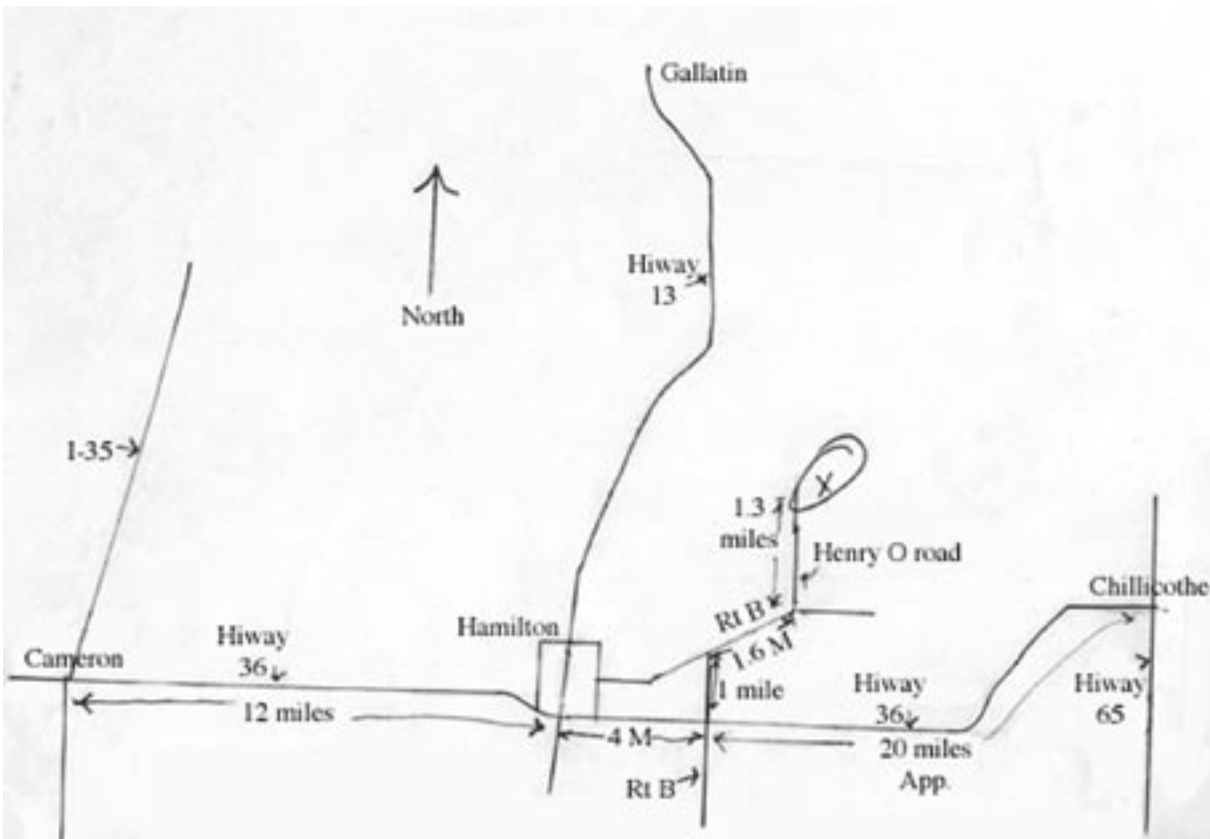
Woods, Harman
2 Spirea Court
St. Louis, MO 63119
harman.woods@charter.net
314-968-9759

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: July 19th Hamilton, MO



Location:

Hamilton, MO.

(North West corner of MO)

Host: Phil & Margie Cox

Phone: 816-583-4337

Food: Yes,

Trade item: Back Scratcher