

BAM

November-December 2007



Gna Gna Bell
by Kirk Sullens

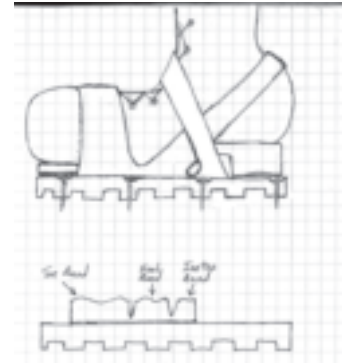
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**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 24 No. 6
**NOVEMBER-DECEMBER
2007**

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The Newsletter of the Blacksmiths Association of Missouri is published six times a year and is mailed to members of BAM. The annual fee for regular membership is \$25/year; a portion of this amount is for a subscription to this newsletter for one year. Editorial inquiries should be addressed to: **Bob Ehrenberger 6192 Hwy 168 Shelbyville, Mo 63469;(573)-633-2010 or send e-mail to bameditor@centurytel.net** BAM membership inquiries should be addressed to: **Bruce Herzog, 2212 Aileswick Dr., St. Louis, MO 63129; (314) 892-4690 or send e-mail to bjherzog@msn.com.** Occasionally some material will be copyrighted and may not be reproduced without written consent by the author. BAM welcomes the use of any other material printed in this newsletter provided the author and this organization be given credit.

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

New Member Renewal ABANA member?

How did you learn about BAM? _____

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

ABANA Membership Application

Primary ABANA Chapter Affiliation: _____

Name: _____

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New Member Renewing Member

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

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

See reverse

From the Editor

By Bob Ehrenberger

Good news, the BAM camera is fixed and I was able to take pictures at the November meeting. Of course, I didn't take as many as I should have, like usual. There was a good crowd at Wayne Holder's shop and we all had a good time. Wayne has one of the best junk piles of any shop I've been to, lots of old stuff, mostly made of steel.

At Ehrenberger Forge we had a really good fall season, so I won't be going cold or hungry this winter. Even though the price of oil and gas was going up, people still got out their pocket books and supported the cause.

The exciting news around here is that our son, Daniel, who most of you know as a promising knife maker, is engaged. He proposed to Jennifer Adler at the Mexico "Walk Back in Time" event where both her parents and we were set up. Jennifer's folks, Knox and Mary, run a Civil War Sutlery "Adler's Dry Goods". We met the Adlers at a reenactment in Pittsfield Ill. about a year and a half ago. While getting to know them, Jan and Mary discovered that we both had unmarried children about the same age. They started to plan right away to get the two of them introduced. As they say, one thing lead to another and they are planning on getting married next June.

Iknow that I promised you a report on my new power hammer. Our fall show season was so busy that I put the power hammer on hold for a couple months. I hope to get back to it real soon and give a full report in the January newsletter.

Kirk wanted me to let you know that they are trying to put together a special mailing for the conference. The mailing may not go out before the end of the year so if you want to take advantage of the early bird registration, you should

use the form printed in the newsletter.

Iwould like to thank everyone that I sent in articles for the newsletter. You really make my job a lot easier, and help with my goal to have the newsletter be about BAM and it's members.

Letters to the editor:

Hi guys. I just got the BAM newsletter. You made a mistake on my E-mail and I will not get any sent to the address you attributed to me. I now have <bobpatrick@southshore.cc> NOT .com !!! I know it is a peculiar address, but when I got satellite Internet, that is what they



came up with. See. I actually read your newsletter!! And it's pretty good! (and I've been off pain medications for a while now, so it's not an illusion) I am recuperating from a hernia repair and so I can't do any smithing for about another 3 weeks or so. My wife wants me to do absolutely nothing, and I am going nuts. Looking forward to seeing a lot of BAM members at the Ozark Conference.
Bob Patrick

Howdy,

I noticed on the current member list that my E-Mail address is wrong. My old one was dorkhat@socket.net. This won't work. My new address is dorkhat@rallstech.com

Thanks -Rob Ahrens-

Bob,

At one of the BAM meetings at your house, you were nice enough to give out pieces of braided cable.

I have been working on my forge welding and thought why not give it a try and see if I can make a knife.

Not too bad if I do say so myself.

Thought you might like to know that the piece I took didn't go to waste. Even have enough to make two more.

Lou Degginger



Thanks Lou, did anyone else get their knife made? Send me a picture.

Ialso received a snail-mail letter from Dale Gilman. He regrets to say that his health is such that he can't host next year's September meeting.

The next Newsletter submission deadline is January 19

Minutes BAM Meeting

11/3/07

By Bob Ehrenberger

Held in Leon, IA.

Thanks to Wayne Holder for hosting the meeting.

BAM's current membership is 540.

Kirk talked about plans for the 2008 BAM conference. The schedule will be to have set-up on Wednesday and tear down on Sunday. Thursday, Friday, and Saturday will be full days of demonstration.

We are planning on having a hands-on area for teaching. This will replace the usual MTS beginner's class and Blade smithing beginner's class. We need instructors for this area. What we want is to have the instructor give a short demonstration and then help the students, as they try to replicate the process themselves. The number of students will be limited and set by the instructor. If you would like to help with this area contact Kate Dinneen or Kirk Sullens.

Kirk said that he dropped the ball and apologized that we were unable to line up a knife maker for one of our main demonstrators. (Editor's note) Maybe we could get a knife maker to take one of the slots in the hands-on area.

We hope to encourage attendance by having a graduated registration fee with large discounts for early registration. The proposed fee schedule looks like: \$60 if before Jan 1, \$80 if before April 15, \$100 if after April 15.

We have gotten lots of encouragement from neighboring blacksmith groups. Kirk will look for firm commitments as the conference gets closer. He would like BAM members to have a chance at comped positions before making them available to the blacksmithing community in general.

There will be a ring project. We will complete the panel that was designed for the New York conference which was canceled. There are details on this in the September newsletter.

Kirk announced that there are going to be hammer-ins at both Don Birdsall's and Ned Digh's shops next weekend, November 10th.

It was also announced that Don is having a hammer-in the first weekend in December. Ken Jansen is going to have a hammer-in sometime in March.

Don Birdsall reminded us about the MTS classes at Ray Scott's shop in February and March.

Don requested that the MTS trailer be painted with the BAM logo and contact information. Kirk said he would make the arrangements with the Bass Pro paint shop.

As a bonus, Wayne Holder gave bags of coal to the people who came the farthest, had the most passengers, and one more drawn at random from those who signed in. By the way, there were 26 who signed in. Wayne also mentioned that he keeps a supply of coal to sell at his shop. He picks it up in Ames, IA and charges \$15 for a 50# bag.

Iron in the hat Donated by:

Greg Humphrey - Pick - won by Robert Harpouce,
Harry Weber - King Pin - won by Phil Hebert,
Harry Weber - King Pin - won by Richard Kamp,
Don Nichols - bearing steel - won by Richard Kamp,
Ed Harper - Grinder - won by Jim Ratliff,
Greg Humphrey - RR Spikes - won by Richard Kamp,
Kirk Sullens - Demo Bell - won by Don Forlow,
Larry Crow - Trivet - won by Jim Ratliff,
Joe Hurley - Chain Breaker - won by Harry Weber,
Matthew Burnett - RR Spikes - won by Harry Weber

Trade items were made by:

Larry Crow won by Jim Ratliff,
Don Nichols won by Bob Ehrenberger,
Bob Ehrenberger won by Mark Lawson,
Ed Harper won by Don Nichols,
Doug Clemons won by Ed Harper,
Mark Lawson won by Don Birdsall,
Don Birdsall won by Doug Clemons,
Joe Hurley won by Greg Humphrey,
Harry Weber won by Joe Hurlry,
Matthew Burnett won by Harry Weber,
Jim Ratliff won by Matthew Burnett.
Greg Humphrey won by Larry Crow

A Word From El Presidente

by Raoul (Kirk Sullens)

Hi all,

If you didn't make the trek north to Wayne Holder's shop in Leon, Iowa, you missed a good time. Thank you to Wayne and his wife for hosting a good time! We even had a couple of visitors down from Minnesota! Nice of them to make the long haul down, and we enjoyed their company.

I didn't prepare enough material to demonstrate all morning, but when I finished my demo, Ed Harper brought out some electrician's conduit benders and showed us how they can be used to radius bar stock. Then, Larry Crow demonstrated a drive hook, which dovetailed nicely with the trade item for the meeting. There was still a little time to fill before lunch, and Don Nichols gave a really good demo on decorative twists. Thanks to all of you for stepping up with no warning, and still pulling off nice demonstrations.

The lunch was chili and potato soup. Didn't have the soup, but it was a perfect day for chili, and perfect chili for the day.

The meeting notes appear elsewhere in the newsletter, so I won't rehash them here, except to say that the conference prep continues, and the more I do, the

more I find that there IS to do.

Our next meeting is in Springfield, and Tim and Mindy Johnson's Advanced Welding shop. It's a nice, big facility right in town, and the Johnson's incorporate some nice forgings into their fabricated railing.

I'm still working on a March meeting place, so please keep an eye on the website to find out where it is. It'll also be announced at the January meeting. Sorry I don't have it yet, the rest of 2008 is booked.

That's all I have for the moment,

El Presidente Raoul
aka Kirk Sullens

El Presidente Raoul
Kirk Sullens
kirk@kirksullens.com
h:(417) 863-8628
w:(417) 225-7538

Please put "BAM" in the subject line of any e-mails you send me.

I had a project to make the striker plate for a door knocker. The Knocker was cast iron, and very heavy, so



I needed a plate with some heft to it to match. I used a piece of 3-1/2" x 1/4" and then upset the edges to make it look thicker. I raised a ball from the back side to match the ball on the striker. For a final touch I used a ball punch in the corners and fullered all the way around the piece which forced the back down flat and made the edge look even thicker. Bob



BAM is gearing up for its 17th annual Ozark Conference, May 1st-3rd, 2008, this time with an international flair. With extended dates and foreign demonstrators Josef Habermann and Heiner Zimmermann, plus US smiths Bob Patrick, Darryl Nelson, the team of Michael Bendele & Joe Bonifas, and the team of Steve Mankowski & Shelton Browder from Colonial Williamsburg, this promises to be the best conference ever—and the conference committee would like you to share the experience with us. There will be numerous options for your housing, including camping with or without hook ups, and lots of places to find food, so we hope you will join us.

Vendor sites will be under the same roof as the demonstrators—a wonderful, huge, open-sided brick and concrete pavilion on the grounds of the Missouri State Fair in Sedalia, Missouri. While the pavilion is covered and offers weather protection, blowing rain could find its way to the floor in some places, and Midwest weather is unpredictable, so please still plan your attire accordingly.

At this year's conference, besides our regular demonstrators, we are planning a display on the history of power hammers. We are trying to assemble as many varieties of hammers that have been available in the past as well as those available today. As part of this special exhibit, Sid Seudemier is planning to bring the first and the last 25 pound "Little Giant" as well as many other historically interesting hammers. Most will be there only for display, but some will actually be available for hammering!

Rome Hutchings, grandson of Francis Whitaker, is overseeing a ring project that will be completed at this conference. For more information about submitting a ring, please see the article in the summer issue of The Anvils Ring.

With all the things BAM is planning, we think this will be the best conference yet—and we'd love to have you come and be a part of it. After all, we do all this For **Love of The Craft!**

The BAM 2008 Conference Committee

Pre-Registration Form

17th Annual Ozark Conference May 1, 2, 3, 2008

Pre-Registration

Early Bird # x\$60 _____
 (post-marked by 12/31/08)
 Pre-Registration # x\$80 _____
 (post-marked by 04/15/08)
 At the Door # x \$100 _____

Saturday Night Banquet

(pre-registration only,
 1st come, 1st served) # x\$12.50 _____

Workshops (with paid registration)

Basket Weaving # x\$30 _____
 (22 max)
 Broom Tying # x\$30 _____
 (20 max)
 Finger Weaving # x\$20 _____
 (20 max)

Would you like to be notified if other activities are added? -Yes -No

BAM Membership Dues # x\$25 _____

Total Enclosed (Make check out to BAM) \$ _____
 (Sorry, but we can not accept credit/debit card payment.)

Mail check & form to:

Bruce Herzog — BAM Treasurer
 2212 Alleswick Drive
 St. Louis, MO 63129-3604
 314-892-4690
 e-mail: bjherzog@msn.com

Name _____

Others Attending (Spouse & Children under 18 are FREE with a paid adult) _____

Address _____

City _____ **State** _____ **Zip** _____

Phone _____ **E-mail** _____

Meeting Report 11/3/07

By Bob Ehrenberger

By the time I got to Wayne Holder's shop in Leon Iowa, (I was only 10 minutes late), Kirk was already well into his demonstration of a Gna Gna Bell. There was a good crowd of about 25 men plus maybe 6 wives. There were several there from Iowa and a truck load that had come down from Minnesota.

Kirk had brought a hand out of his project, which he had gotten from Jeffrey Funk. It's nice to get a hand-out (which I will reproduce on the following pages), because you are sure to get the critical details and measurements. Though I tend to retain information better when I take my

own notes. Here are some things that Kirk shared that weren't on the hand-out. When spreading the ends of the bell try to do all the hammering from one side so that all the



texture is on the same side. If you flip the piece over while working the anvil face will wipe out part of the texture. When you are trying to get maxi-



mum spread, start in the middle and work your way out to the edges. The metal will move further this way and you are less likely to have a miss-hit than if you try to hit the edge right off the bat.



After Kirk had finished the bell, Larry Crow stepped up to show how he makes a drive hook. Larry had made the monster drive hook that was on the trade table. The critical point of the drive hook was that after making the nail, Larry folds it back onto the main bar and proceeds to draw out the stock to make the hook. Once the hook end is tapered, he goes back and bends the nail out 90°. He bends back part

of the bar with the nail so that you have a head to hit. Once the nail end is done the hook is formed.

At Larry Crow's meeting in August, Ed Harper bought a conduit bender to use in his shop. I had been after him to send me something on how he used it, so he brought it along to give a short demonstration on using the conduit bender as a form. Ed said that he has a steel plate that he has drilled a grid of holes in, that he can put pins in to hold jigs and forms. He just takes the handle off the conduit bender and pins the head to his table. There is a catch on the bender to hold the stock while you bend it around the arc. There are several different sizes of benders so if you watch for them at flea markets you could come up with several different radii to work with. Since most of us don't have a grid plate to work with, Ed suggested that you could just clamp the bender in your vice while using it. Ed also pointed out that when you bend cold, you have to allow for a certain amount of spring back, but when you bend hot there is very little spring back. Someone in the crowd pointed out that the new conduit benders are cast aluminum and you really want to find the older cast iron or steel ones.

Don Nichols finished up the demonstrations by showing some various ways to use twisting. One that I hadn't seen for a while was twisting angle iron. It really gives an interesting twist, and it has a hole up the middle, which could be



used to hide a wire if you were to incorporate it into a lamp.

I'd like to mention that we really had good



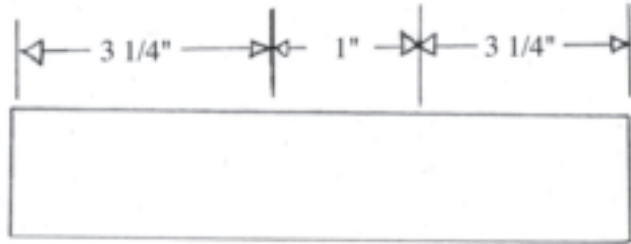
participation in the trade item. By having a very general guideline, it let the guys' imagination run wild. Everything was real nice, great job guys.

Gna Gna Bell

By Bob Ehrenberger adapted from a Kirk Sullens demonstration and a Jeffrey Funk handout.

Begin with a 7 1/2" piece of 3/16"x1 1/2" flat bar.

Mark @ 3 1/4" from each end on both edges, and dent on a sharp edge of the anvil.

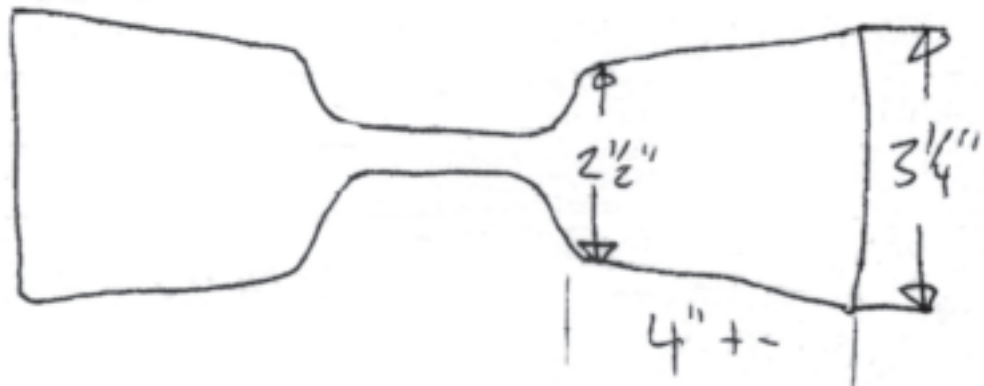


Forge the material between the marks to form the stem for the two bell halves, the handle.

This can be done on the power hammer in two heats, or fullered by hand on the edge and horn of the anvil. Either way you should end up with an overall length of about 9 1/8" or 9 1/4", with the stem about 7/16"x3/16" + -.



Now, fuller the ends to shape and size with the power hammer or cross pein. The final widths about 3 1/4" at the end, and 2 1/2" at the stem.



This will lengthen the piece, which is fine. Uniformity of forging and bilateral symmetry is important here.

Now, with the textured side **OUT**, shape the bell ends over a swage block or the step of your anvil so it looks like this at the end.



After doing both ends, heat the stem and bend to create the bell with a 1/8" + space between the two halves.



Kirk's finished bell.

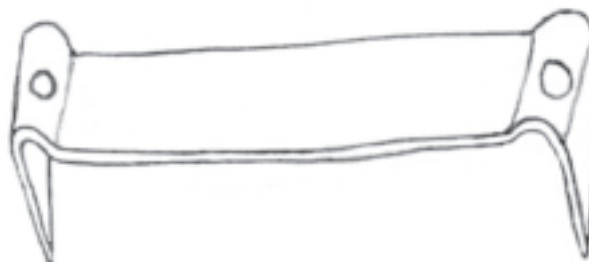
Ice Cleats

By Bob Ehrenberger

With all the Ice we had last year, I wanted to be a little more ready this year. I fell twice last year and it really messed up my wrist for several months. I posted a request for information both on "TheForge" and the Blacksmith editor's news list. Here is what I got back.

From: "kim george" <klgeorge@kent.edu>

The old style cleats are dead easy to make. You need 1-1/4"X 1/8" bar stock, a chisel, a punch and a pair of pliers. Measure the instep of the shoe or boot and add 2-1/2". Cut on a 45 degree angle from the corners about 3/4" (farther if the heel is higher), punch hole in the center of the bar on the ends. Then bend the pointy ends down and the bit with the hole up and add some binder twine or shoe lace for ties and you're done. Heating the stock is optional, lazy people like me like to do it that way. :-))))



This is how I envision Kim's design. I hope I'm not steering you wrong.

From: The Wilsons <kc7pme@gmail.com>

Robert,

Take a look at <http://www.anvilfire.com/iForge/> demo number 81. I can send you photographs of a similar set with straps if you like.

Jeff

Wilson and Son Blacksmithing
Poulsbo, WA.

Editors note:

I went to anvilfire and looked at what they had. There is a real nice demo with lots of pictures of work in progress. In case you don't have the internet, I made some sketches to get you started. They recommend a little heavier stock 6" of 1-1/2"x1/4". These are reproductions of revolutionary war cleats and the demonstrator said that they sell well to the reenactors for that period.



You can either hotcut or saw the slots, punch or drill the holes. It all depends on the look you want. Make sure that you radius the edges of the holes so they don't cut your straps. I don't care for the sharp corners on the center tabs, and will probably chamfer them in so they don't gouge my boots.

For both these cleats, they recommend a strap long enough to go around your heel, through the holes and then tie over your arch. This pulls them back against your heel and up tight.

Bob

Continued on page 12

Ice Cleats Continued from page 11

I got several ideas from Jerry Frost in Alaska, where they really need some traction.

From: "Jerry Frost" <akfrosty@mtaonline.net>

Bob:

We have lots of types of ice cleats to choose from commercially.

Don't bother with crampons, they're designed for climbing and are awkward on hard ground. They're designed to penetrate deeply into hard ice so if all there is a thin coat, crampons stand on top and are tippy rocky. Also, if you fall on ice, there's a good chance you'll do the funky chicken some when you hit and crampons can cut the crap out of you if they're sharp enough to grab ice. Crampons are a BAD idea for general icy ground.

I've modified boots by installing ATV ice studs in the soles. They are hex head screws with the heads cut to bite ice. They look something like a slotted screw but the slot is milled into a "V". Another option I used for years are boots fitted with logging cleats or calks. Do NOT wear your corks (originally logging boots had cork soles to receive driven calks / hob nails) on a steel surface! Step on a piece of steel and the steel calks skate like you're on ice.

There are a number of commercial slip on options, some with spiky calks, some with chain, some with wrapped cable for traction aids. They all work, some are easier to slip over your boots than others.

I've seen a couple home made ice cleats that were made from old tires like huaraches the Tex-Mex sandals made from old tire tread and straps. One set was made from an old studded tire, the other was studded with hex head screws, I'd use ATV studs for this, both seemed to work, but were more hassle to put on and take off than the commercial versions. The ice huaraches predated the commercial models though so it's not a fair comparison.

If you were to make ice huaraches, I'd use inner tube bindings rather than straps. I've used innertube bindings on snowshoes and they work far better than straps. It's hard to describe, but I'll try.

You cut a piece of innertube around 5-6" long and attach it to the huaraches so it's almost stretched flat. When you attach the bindings they need to be pretty tight on your boots, but you have to be able to slip them on. I know that's stating the obvious, but if you know how many times I've missed the obvious you'd understand. <grin> There are two slits cut crosswise so there are three bands of rubber crosswise to the huarache. To put it on you reach (from the heel of the huarache) under the first strap and pull the second strap out. Your boot goes over the middle strap and under the first one, then you tuck your toe under the front strap. The strap you're holding gets pulled up over your heel and holds it all together.

The things go on faster than it takes to read that paragraph.

Stud the huaraches tread with whatever you like, running wood screws from the inside out makes for super traction. . . till you step on a piece of steel anyway.

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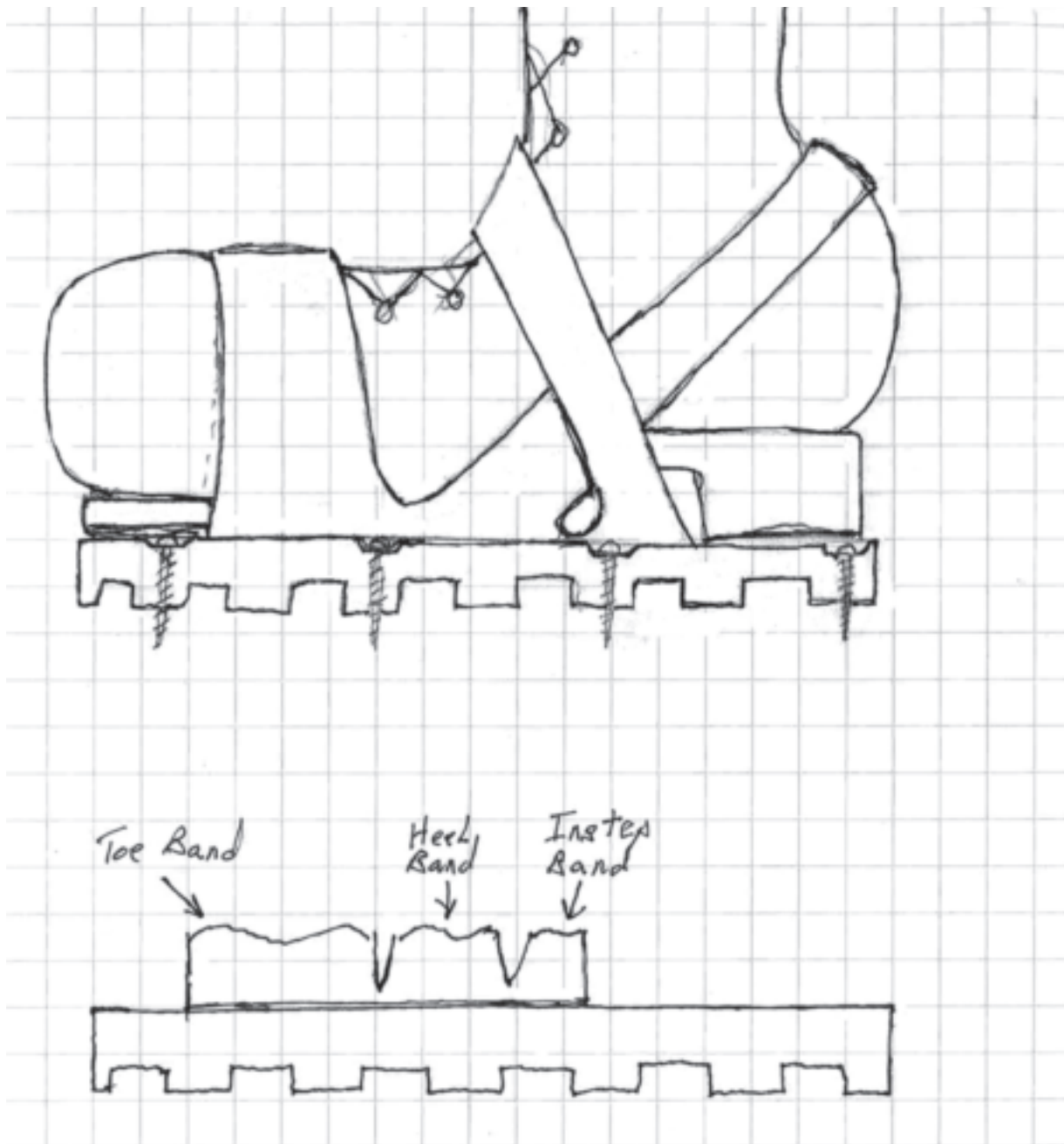
Here is a sketch, seeing as the description is nearly as transparent as mud. <grin>

As I recall, the straps are held on with either screws and washers or epoxy glue, maybe other ways I didn't notice or realize. It's been a good 25+ years since I saw a pair, so I don't really recall. I was surprised I remembered how the things looked well enough to sketch.

Sure, pass it around all you like, the fewer people slipping and falling the better. (seeing as I can't pick and choose who breaks their neck anyway. <grin>) It's not my idea anyway, it's an old time Alaskan and probably other ice country trick.

Another good old time trick is putting wool socks over your shoes or boots. This works well on ice but REALLY well on algae covered rocks in a creek.

Frosty



Blacksmithing at a Midwest Tool Collectors Meet

By Scott Stager

On Thursday, October 11th, Sam Peterson and I gave outdoor demonstrations at the semi-annual meet of the Midwest Tool Collectors Association (MWTCA) held in Springfield Missouri. Sam is a local woodworking friend. His demo focused on building a shave horse, while I set up my portable blacksmithing rig and did some simple forging.

MWTCA is a national organization of persons interested in old hand tools. It's emphasis is primarily wood-working tools, but other types of hand tools are also well represented. The meets run from Thursday to Saturday with Thursday reserved for a massive parking lot tailgating session. Friday is tool sale tables, set up in a large indoor venue as well as presentations on various subjects of interest. Saturday morning concludes the indoor sales followed by an afternoon whatisit session and auction. The meet ends with a banquet on Saturday evening.

In addition to tool swapping and selling, there is an atmosphere of a large extended family with many of the members having known each other for years, even decades. There is a very active auxiliary that has a program of their own including tours of local historic or other sites of interest.

The Springfield meet was themed around the Springfield Wagon Company, a manufacturer of wooden wagons that was still in operation as late as the 1930s. The factory was located only a couple of blocks from where the meet was held. A local member who runs a museum and promotes the memories of the company displayed an original un-restored farm wagon in remarkable shape, as well as giving demonstrations on the hand construction of wooden wheels.



Scott with his portable forge set up

My blacksmithing setup included a combination anvil and post vice bench. Drew Johnson and I constructed this bench years ago when he lived across the street from me in Columbia. It disassembles into two major pieces with cross members connecting

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them. While this makes it portable, it is somewhat bulky and requires at a minimum a pickup for transport. Thus it doesn't travel as much as I would like. We packed Sam's pickup with my stuff as well as a massive workbench top that Sam had built from a recycled bowling alley slab. I have a cast iron rivet forge obtained at a BAM event years ago, plus a hood acquired a couple of years ago at the annual BAM conference. This was the first extensive test of the forge and hood combination. I also placed a surplus brake drum inverted on the forge vent, and stacked up some firebricks in an attempt to create a deeper fire without overwhelming the small forge.

I did some basic forging, making very simple items. Since the theme of the show was old wagons, I wanted to do something related to wagon hardware. I decided to attempt the construction a replacement hook for the end of a wagon singletree. This involves a forge weld of 3/8 round rod folded back on itself to form a loop. The forge-welded part is then rolled back into a hook to which the harness can be attached. For many of you this would be a trivial project; however, I have probably only stuck three of four forge welds in my sporadic attempts over the years. I had attempted a test run in my back yard a few weeks earlier with less than satisfactory results. Fortunately, Bob Ehrenberger was set up at an event in Mexico, MO during the intervening time, so I imposed on him to give me a quick lesson. He, of course, produced one in short order with amazing ease. I managed to create a satisfactory hook which when compared with the original example I had was surprisingly close in size and shape. Needless to say, I was quite pleased.

In addition to the shave horse construction demonstration, Sam was collecting surplus old tools to use in his work with the Boy Scouts. Sam is a local scout leader and among other things leads the scouts in earning woodworking merit badges. He refurbishes old hand tools to give each scout upon earning a badge. As part of earning their badge, he and the scouts get together and build a toolbox to hold the tools. Each boy then has his own personal set of usable tools with which to continue on with woodworking as a hobby. MWTCA members were quite supportive of his efforts and gifted him with copious amounts of old tools for distribution to scouts in the future.



Sam Peterson collecting tools for the Boy Scouts



We had a great time and I managed to get a few pictures taken. The finished hook, as well as a second unfinished one, is visible sitting on the anvil in one of my photos.

Scott's finished hook

BBQ Grill for Outdoor Stove

By John Wilding

Hi Bob,

I made this grill to be used with an old wood stove base we have in our yard for Autumn evenings. I love to go out and grill a few brats now and then, so I put this thing together this Summer. I thought maybe someone in BAM would like to make one too. Use as many of the photos as you think it takes to tell the story. Thanks for all your good work in BAM.

John Wilding
Red Barn Crafts & Antiques
Hermann, MO

Directions:

Heat the center of a 3/8" rod and wrap it around a 3/4" iron pipe about 3 turns, then open it up about 1/3 turn to give it a little clearance. Heat the ends and bend up about 1" prongs on the ends. Forge a small clip to be welded on one of the legs to hold the edge of an old oven grate from a kitchen stove or whatever grate you might have. In use, drive the 3/4" pipe in the ground next to your firepot, slip the grate holder down on the pipe and attach the grate by slipping the edge under the clip and then drop the grate down over the two pegs. The beauty of this grill is that it slides up and down the pipe instantly for quick heat adjustments and it can be rotated around away from the heat so you don't cook your knuckles while saucing or turning your meat.

If you want to use a larger grate, you may want to begin with a 1/2" rod rather than the 3/8" rod.



Grill set up in use



Close up of the bracket



Close up of grill in use

Shop Tip

Making a Simple Bender By Bob Ehrenberger

A couple years ago, I had a friend lose the handle to her violin case. She had sent it off, with all the rest of the hardware, to get it brass plated, and the plating company lost it. They needed a replacement and it had to match the original. It needed to be made out of 1/8" round stock with four sharp bends. Pretty simple, right. Wrong, when I bent it in the Hossfeld bender the radius on the bends was way too big. When I tried to clamp it in the vice and bend it over with a hammer, there were marks on the piece from both the vice and the hammer.

What I needed was a miniature bender that would make tight bends in light stock and not leave marks. The solution was simple. I drilled several 5/16" holes in a piece of 1-1/2" x 1-1/2" x 1/4" angle iron. I then drilled a series of holes in the end of a 5/16" x 3/4" flat bar.

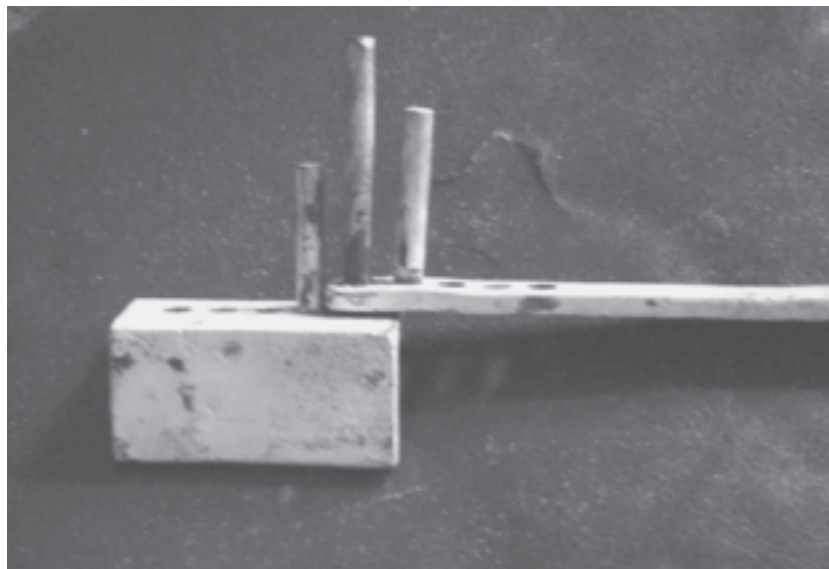


Bender parts, handle, base, three pins

I rounded off the end of the bar to reduce the clearance required. I cut

3 short pieces of 5/16" round stock and I was done. The first set of holes were too far apart for the 1/8" stock, so I ended up drilling the opposite end of the bar, with the first hole real close to the pivot hole. The bender worked nicely and I was able to make the violin case handle in no time.

Since then, I have used my little bender on a regular basis for all kinds of bending operations. It can handle up to 1/4" cold and 5/16" hot. I have discovered that I really only needed one position for the pins, since by the time you get to where you needed to move the pins for clearance, the bender was not heavy enough for the job anyway. When I tried to skip a hole and put the pin in the next one, it was too far out. So I use one end of the bar for 1/8" and 3/16" and the other end for 1/4" and 5/16" stock.



You could make this bender in 15 minutes, from scrap lying around your shop.

You could probably scale this up using a larger angle iron and a larger bar for the handle. It wouldn't be as good as a Hossfeld, but it would be portable and really cheap.

Climbing Vine with Leaves - A Forging Idea

The forging problem considered here is how to make a climbing vine with leaves along its length. One solution is to make the vine and a number of individual leaves, and then weld them on. This has its risks, especially if you're not expert at forge welding.

An alternative approach is to make the vine and leaves as one piece, cut from rectangular stock. I've been using stock about 1-inch by 1/4-inch. The accompanying sketches and pictures show the progress on a design element meant to have five leaves, plus one rolled into a bud, on one vine.

The stock is laid out cold as shown in sketch #1, first with pencil, and then with cold chiseling. The marks need to be deep enough to find them when hot. The cuts on the layout lines may be made with a small, sharp, hot cut chisel. As an alternative, the cuts may be made cold with a hacksaw to the extent that there is access. The piece is then heated at the end, and unfolded gently as in sketch #2. As the piece is unfolded, there will be access to make the next saw cut (after cooling it again). I've done it both ways: the cold sawing is precise but requires many heating and cooling cycles, the hot cutting requires a small, sharp chisel to get into every cut location before unfolding. For small work, this also requires a number of heats and care to keep the chisel cool.

With either hot- or cold-cutting, the biggest caution is to avoid overlapping the cuts in the corners. A small tear in the corner will grow into a crack as the forging progresses. Preventing this is by far the biggest problem I've had with this technique. Solutions include: 1) only forge with a good heat, 2) grind/file out cracks as soon as they appear, 3) round out all sharp corners first. I haven't yet tried drilling small holes at each inside corner in the layout, but this might also relieve the sharp corners.

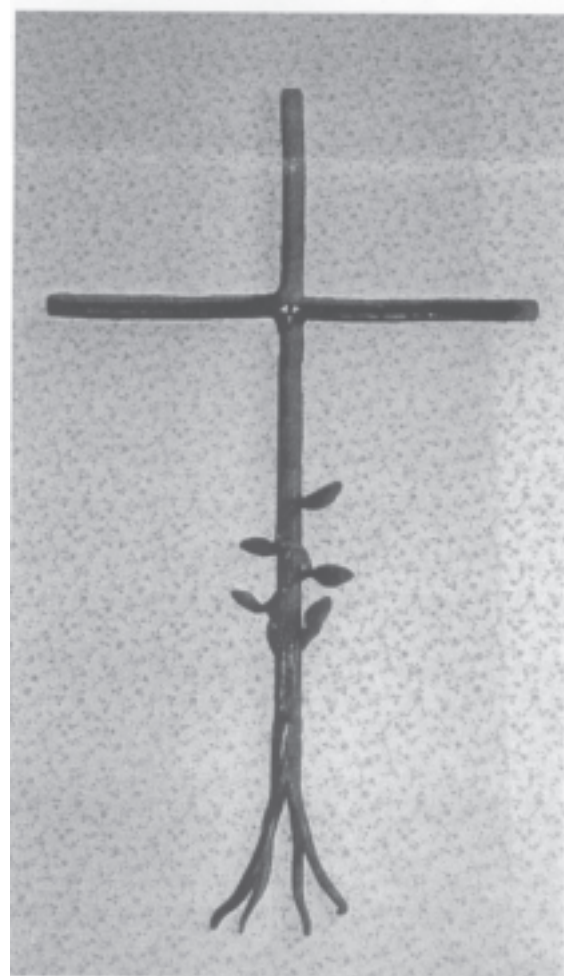
The vine is progressively cut out and unrolled as indicated in sketch #3. When the entire vine is unfolded, then work from one end to the other, forging the leaves and the stems. The diamond shaped leaf blanks can be brought to the anvil to hammer in the two corners on the sides (sketch #4). The leaf blank is then spread sideways with the hammer peen, and textured to suit. The stems are rounded and textured. A systematic pat-

tern of convenience bends, first to the left, and then to the right, will give access to each leaf in turn.

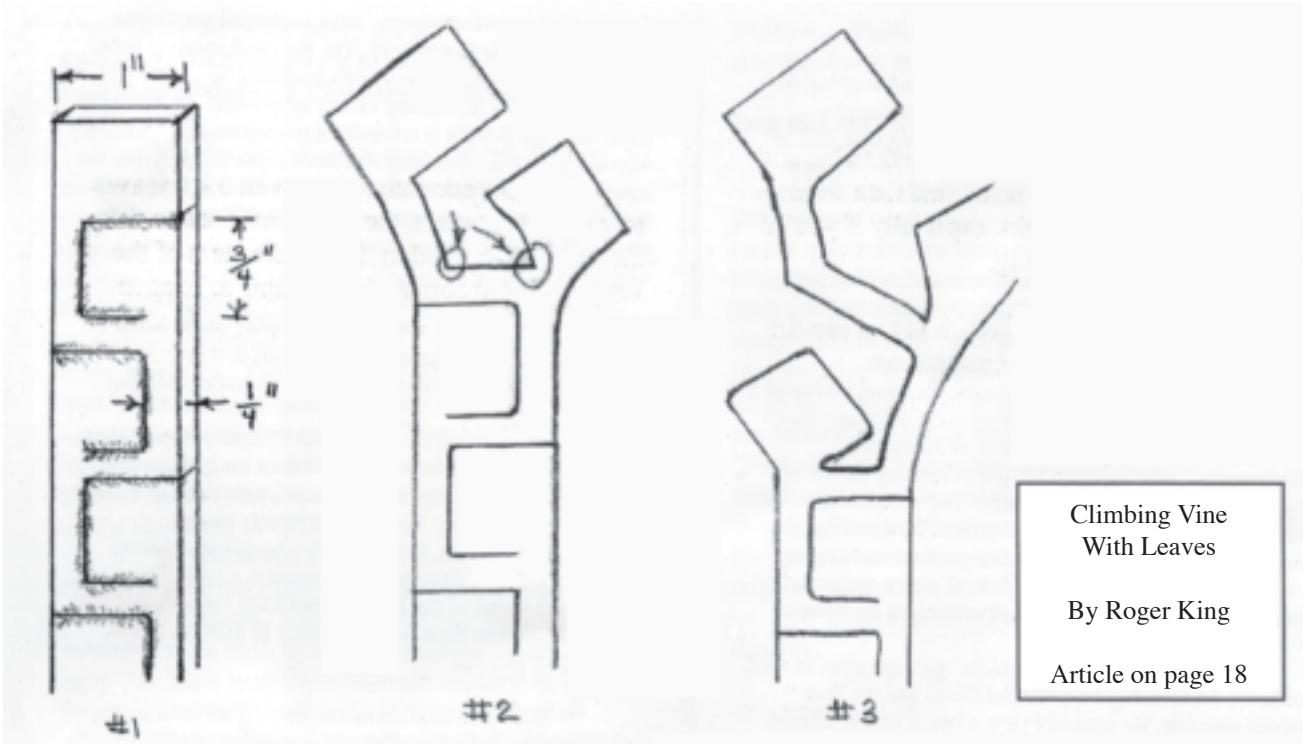
I've made three vines with 5-6 leaves so far. In two cases, the crack that tried to ruin the project occurred in the middle stem of the vine at a sharp corner. This seems to happen when working the leaf immediately adjacent, and the flawed area is not fully hot, nor cold. In one case, I resorted to a repair with the stick welder (which was then hammered out). The third attempt went well because I kept a good heat, and it showed that the technique is quite doable. It is a test of your carefulness in forging.

Roger King

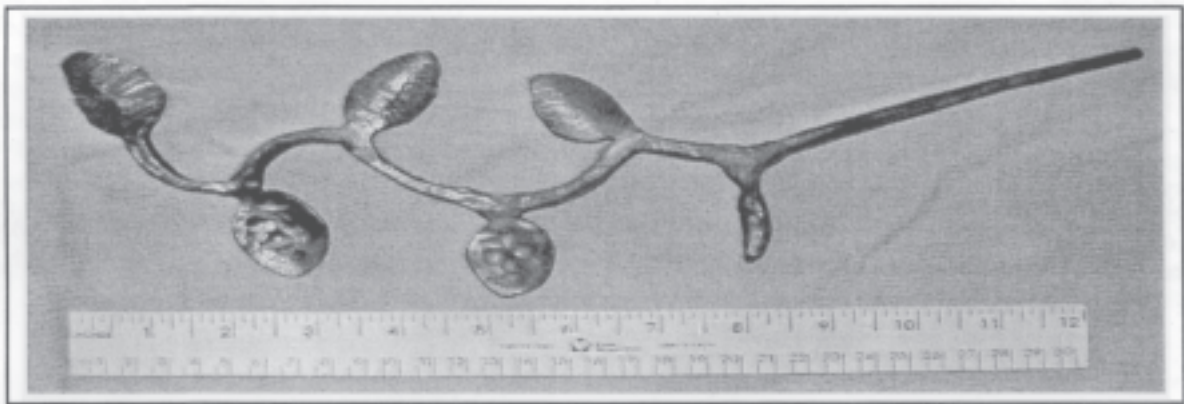
Below - The five-leaf vine was used as a design element in the cross below.



Reprinted from the August 2007 NOB Newsletter



Climbing Vine
With Leaves
By Roger King
Article on page 18



Reprinted from the August 2007 NOB newsletter

Building a Community Forge

By Christopher J. Miller

I. Introduction

A. Doniphan, Missouri

Doniphan, Missouri is the County Seat of Ripley County, Missouri. It is a community of 1,956 people nestled at the base of a bluff overlooking the Current River on U. S. Highway No. 160 about fifteen miles North of the Missouri-Arkansas border. The town was founded in the 1840's, was decimated during the Civil War and remained sparsely settled until the timber cutting boom of the 1890's. The economy is still rural and dependent upon the timber and farming industries, but a new tourist industry is being forged on the still mostly undeveloped banks of Current River and the adjoining Mark Twain National Forest.



B. The Doniphan Neighborhood Assistance Program, Inc. (DNAP)

The Doniphan Neighborhood Assistance Program, Inc. is a 501(c)(3) Not-For-Profit Missouri Corporation organized to provide community improvements utilizing Neighborhood Assistance Program Tax Credits and other charitable gifts. The first project in the 1990's resulted in the demolition of an entire block of dilapidated buildings in downtown Doniphan and the creation of the Heritage Park Project. The second project in the mid 1990's acquired a large old building adjacent to the historic Courthouse and renovated it to create a community center, and offices for DNAP, the Chamber of Commerce and the Ripley County Historical Society in addition to the main effort of creating the Current River Heritage Museum. The third and final project in the late 1990's was the creation of the Pioneer Heritage Homestead one block South of the Courthouse adjoining the Old Doniphan Cemetery. It consisted of a Cabin, a Barn and a Blacksmith shop originally constructed during the 1800's in rural Ripley County which were moved to and re-constructed on the project site.

II. The Pioneer Heritage Homestead

The Pioneer Heritage Homestead on Franklin Street one block South of the County Courthouse in downtown Doniphan, Missouri, was created by obtaining three separate structures origi-



nally built in the 1800's, found in different locations in rural Ripley County and moving them to the project site acquired by DNAP. The intent was to create a park space and to preserve the history of early Ripley County. It is used both as a tourist attraction as well as a living history museum. It is the site for the annual Civil War Days celebration and hosts a Farmer's Market on Saturday mornings.

III. Tom Kennon's Blacksmith Shop

The Tom Kennon Blacksmith Shop consists of the building and remaining tools and equipment of an actual Blacksmith Shop operated by Tom Kennon from around 1900 to the mid 1930's. The family, which had maintained the unopened shop for many years after Tom Kennon's death, donated the shop and contents to DNAP to be part of the Pioneer Heritage Homestead project. Unfortunately, there was no permanent forge which came with the donation and for the first half dozen years the shop was open as part of the project, all exhibitions had to be conducted on a small portable pot forge. Once or twice a year a member of the DNAP Board or Heritage Museum volunteer staff who had some experience working with a forge (the oldtimers), would open the Blacksmith Shop and demonstrate the Blacksmith's art.

IV. In the Beginning

In 2002, in an effort to help fund and maintain the Heritage Park, the Current River Heritage Museum and the Heritage Homestead by some method other than charitable donations, the City of Doniphan approved a Tourism Tax on motel room rentals which raises about \$20,000.00 per annum. These funds are contracted to DNAP for the purpose of keeping the City's tourism assets maintained while attracting new tourists to Doniphan.

In 2005, the DNAP Board approved of the concept for building a permanent brick forge at the Tom Kennon Blacksmith Shop using the tourism tax to fund the project. The plan was to create a fully functional Blacksmith Shop in the style of the 1890's and to use the new forge as the nucleus for assembling a group of interested persons to use the shop on a regular basis. The theory was, of course, "If you build it, they will come." The plan was to keep the local art of Blacksmithing alive and to increase the number of regular exhibitions of the Blacksmith's art. This would then aid in improving the local tourism traffic at the Pioneer Heritage Homestead Site.

V. Forge Design

A. Clutter's Blacksmith Shop-Naylor

The City of Naylor about 15 miles Southeast of Doniphan, Missouri, houses the Clutter's Blacksmith Shop Museum. A working Blacksmith Shop up into the 1950's, it was kept locked up until the 1980's when a number of interested citizens acquired it by donation from the Clutter family and dedicated it as a museum held in trust by the City of Naylor, Missouri. It is opened by appointment and annually during the fall heritage days celebrations. The original forge, still operable, is a brick forge with a

side draft masonry chimney. It has a variable speed electric draft fan. It was the initial model for Doniphan's new community forge.

B. Internet Research

Although DNAP had access to a number of older citizens who could operate a pot forge for basic farm related blacksmith jobs and fishing gigs, no one locally was experienced in building or operating a fixed masonry forge. The Internet proved to be best source of design information.

C. Final Plan

In the fall of 2004, a committee was formed by DNAP to work on the community forge project. Led by DNAP's Tourism Director, Don Phillips, and several other interested DNAP members, the design was researched and a budget was drawn up. Not until the spring of 2005 was DNAP able to finalize the plan and set the budget at about \$2,000.00. The Committee decided to build a two firepot masonry structure with a central side draft chimney in the center of the Tom Kennon Blacksmith Shop Building.

This would allow for two smith's to work in the shop at the same time and would be useful in holding blacksmith training seminars.

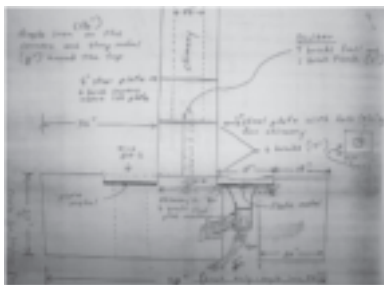


Figure 1

The original sketch of the Forge as envisioned by the DNAP Committee is shown in Figure 1.

Led by the author, now DNAP President, the project was started in late 2005 with the mail order purchase of two Vulcan Firepots with Dumping Ash gates from Centaur Forge. See Figure 2. These were to be the heart of a dual forge structure whose design was committed to paper earlier that year. This was when the author, having learned about BAM from its website, joined the organization. The biggest hurdle, however, was in finding experienced masons to execute the proposed design. Not until late 2005 were the masons contracted for the job and they would not be available until the spring of 2006.



Figure 2

VI. Construction

A. Foundation

Construction started before the masons became available when

the author and his friend, Dan Molloy, a local civil engineer, dug out and constructed the foundation in the Tom Kennon Blacksmith Shop building. The shop floor was clay and gravel compacted over ten years of foot traffic. It was dug out during the winter of 2005-2006 with pick and shovel to a depth of about eight inches and a 2 x 6 pressure treated form was inserted, braced and leveled to grade. A welded steel 1/2" re-bar grid was inserted in the form and held up off the surface with retaining clips. In early March, 2006, when the chances for a hard freeze had passed, the City of Doniphan, Missouri's, public works department crew and Mathis Cement company donated their time and a load of concrete to pour the foundation pad, which was six inches deep and a few inches larger than the planned 90" x 36" structure. It was then up to the masons.

B. Brick Hearth

Marvin Ritter & Son were the masons contracted to build the new forge. Although they were experienced in fireplace construction, they had no prior experience with building a forge. Given the plans that the committee had provided, they began work in February, 2006.



Figure 3

The first design problem arose when it was discovered that there was not enough room between the forge and the workbench to have a fire pot opening on the side of the structure facing the workbench because there would be no room to stand the hand crank blower which feeds into the tuyere on the firepot. Both firepot openings had to face the center of the room to provide adequate space for the blowers. Luckily, the design showing an opening on each side was modified just before the masons commenced work. As you can see from the initial courses in Figure 3, the central core of each hearth



Figure 4

and the chimney base was not laid solid with brick, but was hollow and subsequently filled with broken brick and mortar debris left over during construction.

Figure 4 shows the structure nearing finished height just before the steel supporting the hearth and chimney is set in place.

Figure 5 shows the 1/4" steel plates set over the firepot openings with a central opening cut to receive the firepots. These plates were fabricated by a local steel yard based upon measurements submitted by the masons. You can also see the central core and chimney base filled in with debris to support the final brick



Figure 5

course constituting the hearth.

C. Firepots

The firepots supplied by Centaur Forge are lower on the short side and higher on the long side. This is to allow stock to be inserted from the sides of the forge into the heart of the fire along a depression in the hearth. The Committee's design called for such a depression, but it was the masons who translated the design into practice with quite a bit of hand cutting the brick and firebrick.



Figure 6

Each firepot was set on a base course of firebrick. Using a half brick on the sides and a full brick on the hearth edge, and chamfering the firebrick, the firepot was made level with the hearth, but with a lower channel or depression on each side as shown in Figure 6.

Only the first brick around each side of the firepot was firebrick. The hearth itself was constructed of regular brick. Where the hearth crosses the blower opening, it is supported by the steel plate which also hold the firepot. See Figure 7.



Figure 7

Figure 8 shows Marvin Ritter and Son, masons, installing and leveling the second firepot.

A side view of the blower opening in Figure 9 shows the trough or depression in the hearth resting on the steel plate and allowing stock to be inserted lower into the firepot from the sides.



Figure 8



Figure 9

D. Flue & Chimney

As the masons neared the hearth and felt comfortable about the manner in which the fire pots were to be installed in the structure, they made suggestions about the design of the flue and chimney based upon their previous fireplace work. Because of the dual forges using a central chimney, they were concerned that the proposed brick wall backing each flue leading into the chimney would not draw properly. This was also suggested from the literature which called for a smoke shelf at the back of the flue. See Figure 10.

The masons suggested a metal wall with a triangular smoke ledge welded onto it as the separator between the two hearths with a steel pipe embedded in the masonry structure to serve as the central chimney.

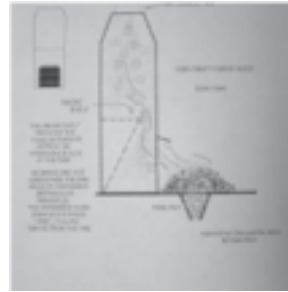


Figure 10



Figure 11

Figures 11 and 12 show the steel work which the masons had fabricated locally. This was mounted in the center of the forge and the chimney constructed around it as shown in Figure 13.



Figure 12

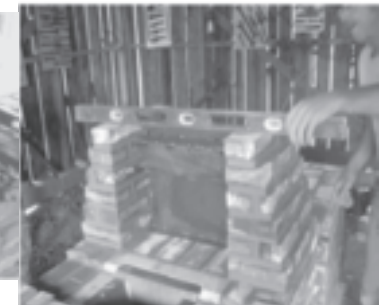


Figure 13

A 1/4" steel plate with a 12" diameter hole to accept the chimney pipe was inserted in the masonry chimney just above the top of the smoke shelf assembly. Because this plate extended out on each side of the chimney approximately 1/2" it allowed for a ledge upon which to bolt a metal hood extending out over each firepot. It also supports the weight of chimney structure and pipe above it. The masonry structure was then continued upward to approximately the 7' level and terminated. See Figure 14.



Figure 14

A 1/8" thick steel well casing pipe, 12" in diameter was then lowered through a hole cut in the tin roof of the building and inserted into the structure which was capped at that level. The Doniphan Fire Department used their Fire Truck with a bucket ladder to lower the pipe into the building, which was no small feat considering the high power lines running just to the rear of the structure. The pipe was of sufficient length to rise approximately four feet above the ridge line of the roof of the Blacksmith Shop and was braced with metal ties into the rafter structure of the building. A metal chimney pipe flashing on the metal roof solved the problem of leakage around the pipe.

A picture of the nearly completed structure just before first heat is

shown in Figure 15. Note the forge blower hoses connecting to the tuyeres in each opening. Dryer vent hose from the local lumber supply works quite well as a flexible conduit for the forced air from the blowers.



Figure 15

VII. First Heat

First Heat was on Saturday, April 29, 2006, when the author and Dan Molloy fired up one side of the dual forge. We did so in a toad strangling rain and thunderstorm with some trepidation about how the flue would draw. Even without the side hood, which was not fabricated and installed for several weeks, it worked fine; a tribute to the masons' experienced tweaks of our committee's original design.



Figure 16 shows the forge several weeks after first heat when the hoods were attached to the chimney over the firepots.



Figure 16

VIII. Blacksmith Shop User Group

In June, 2006, when the new community forge was dedicated and put into use for the Doniphan Civil War Days Festival, DNAP authorized the formation of a committee to operate and maintain the new forge. A notice was circulated throughout the community about the formation of a new Blacksmith Shop User Group. Members joining the group were encouraged to take lessons from

a few of the oldtimers and to meet on Saturday mornings to fire up the forge for practice and demonstrations. The group is loosely organized with about seven to ten intermittent members. During the remainder of 2006 and into 2007 the group has managed to keep the Tom Kennon Blacksmith Shop open for demonstrations and classes almost every other Saturday morning instead of just once or twice a year. Members may also check out a key to the Shop on a first come, first served basis on any other days of the year for their private projects. A few of the members whose skills have improved to the point of making items someone might actually want to purchase, have been donating their work product for sale in the Gift Shop of the Current River Heritage Museum to raise money to defer DNAP's expense of purchasing coal. A Saturday morning Farmer's Market which has been in operation for the last year using the grounds of the Heritage Homestead has provided a steady influx of tourists and local citizens, most of whom are amazed at the sight of a working forge. Some visitors stay to chat for hours and quite a few of the locals are happy to reminisce about their ancestor's Blacksmith tools and experience.

IX. The Future

DNAP will continue to support the Community Forge as a long term Heritage Asset of the Doniphan community. Although funds are limited, additions to the Shop and its tools will be budgeted periodically. Persons interested in Blacksmithing will continue to be recruited and encouraged to join BAM and participate in disseminating information about the craft. Demonstrations will become a regular event, not a rare occurrence. Not everyone can build their own shop or forge. The community forge will allow more people to experience Blacksmithing without making a large investment in building their own shop. Moreover, the more dedicated members of the group will, by keeping the forge open and fired up on a regular schedule, provide a service to the community in the form of a tourist attraction while keeping the Blacksmith's art alive and well into the 21st Century.

Christopher J. Miller,
President
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1845 South State Hwy MM, Springfield, MO. 65802
Phone # (417)-883-9794 Fax # (417)-447-3347

Blacksmith Apprentice for Kaviar Forge & Gallery, Louisville, Ky, forge creates architectural commissions, furniture and some limited production forge work see www.kaviarforge.com <http://www.kaviarforge.com> . Pays \$7 per hour. One year commitment, please send resume, and two letters of recommendation to Craig Kaviar at ck@craigkaviar.com
Craig Kaviar 502-561-0377 cell 502-938-6762

Demonstrator List

Fred Weisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc.

Contact Fred to get on the list:
417-589-2497 e-mail: jweisenb@llion.org

Around the Anvil BAM has it's very own E-Mail news group. If you would like to participate send an E-Mail to Ed Harper at aramed@grm.net and he will get you signed up.

Basic Blacksmith workshops to be held at:

Ray Scott, HCR2, Box196 Eminence, MO. 65466
To find Ray's shop:
From the intersection of highway 106 and highway 19 in Eminence, MO. go east on 106 about 5miles to Y highway, go north on Y about two miles watch for a white wood fence on the right side of the road turn into the driveway at the fence. Telephone number 1-573-226-5541 (Evenings only no day time number no email either)

Workshop number one on February 9th, 2008
Workshop number two on February 16th, 2008
Workshop number three (Sign holder) on March 1st, 2008
Workshops one and two, the cost is \$20.00 dollars per person for each day. The third workshop (Sign Holder) the cost is \$20.00 plus the cost of the steel \$18.00, for a total of \$38.00 dollars. Every one taking any of the workshops must be BAM members. Cost of a one year membership is \$25.00 dollars. Send registration to Ray Scott at the above Address. Questions concerning the workshops contact:
Don Birdsall 1-573-364-7223 email Donbirdsall@embarqmail.com

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 Charter Rd.,
Moscow Mill, MO. 63362

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

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

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

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

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

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

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

Upcoming Events

January 1 - Application deadline for February **Scholarship** awards.

January 12- **BAM Meeting** Tim & Mindy Johnson, Springfield, MO. (417)-886-8032 Trade Item - Door Knocker.

January 19 - **Newsletter Submission Deadline**

February 9 - **MTS #1** Workshop (Basic BS) Ray Scott Eminence, MO. -(573)-226-5541

February 16 - **MTS #2** Workshop (Basic BS) Ray Scott Eminence, MO. -(573)-226-5541

March 1 - **MTS #3** Workshop (Sign Holder) Ray Scott Eminence, MO. -(573)-226-5541

March ?- **BAM Meeting** TBD

April 1 - Application deadline for May **Scholarship** awards.

May 1-3 - **BAM's 17th annual Ozark Conference** Sedalia MO.

May 24- **BAM Meeting** Don Nichols, Sedalia, MO.(660)-826-9252

July 1 - Application deadline for August **Scholarship** awards.

July 12- **BAM Meeting** Bob Ehrenberger's shop Shelbyville, MO. (573)-633-2010 Trade Item - Nut Cracker

September 13 - **BAM Meeting** Ned Digh, Ham's Prairie, MO. (573)-642-8332

October 1 - Application deadline for November **Scholarship** awards.

November 1- **BAM Meeting** Don Birdsall's shop, Rolla MO (573)-364-7223

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

New Members

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

Egan, David
451 Gip Annie Road
Harrison, AR 72601
dkegan1@windstream.net
870-688-5550

Jones, Mike
7199 NW Center Road
Cameron, MO 64429
ramrod54@centurytel.net
816-632-5227

Santoscoy, Susan
710 W. Dripping Springs Road
Columbia, MO 65202

Sheridan, Patrick
8701 Ginn Lane
Columbia, MO 65201
573-874-1335

Garrett, Randy
20909 West 205 Ave.
Ridgeway, MO 64481
arjeezmail@yahoo.com
660-872-6555

Lankford, Paul
25849 Audrain Rd 820
Mexico, MO 65265
glankford@socket.net
573-581-8253

Sloan, Gary
P.O. Box 24
Paron, AR 72122
educathome@yahoo.com
501-594-5257

Gould, Dennis
Rt 1 Box 1361-9
Golden, MO 65658
417-271-3817

Lehman, Andrew
2903 SW Scherer Road
Lee's Summit, MO 64082-1304
atlehman@hughes.net
816-524-8619

Tarka, Michael
4008 Gallant Fox
Columbia, MO 65202
metark@hotmail.com
573-639-9014

Haynes, Charles
52391 Hwy N
Centertown, MO 65023-3815
573-291-0335

Mueller, Tim
2434 Garner Road
Hermann, MO 65041

Next Meeting: January 12, Springfield, MO.



Location:

Advanced Welding
651 S. Kansas
Springfield, MO

Host: Tim and Mindy Johnson

Trade Item: Door Knocker

Lunch: Will be provided

Phone: 417-886-8032

Demonstrators:

Tim Johnson, Jeff Davis

Driving Directions:

From the north, go south in Hwy 13 (Kansas Expressway) through Springfield to Mt. Vernon Street. Turn east on Mt. Vernon to the first right, which is Kansas Avenue. Turn south on Kansas Avenue to Advanced Welding.

BAM

2212 Aileswick Dr.,
St. Louis, MO 63129

Please send changes to Bruce Herzog, 2212 Aileswick Dr., St. Louis, MO 63129 or e-mail to bjherzog@msn.com