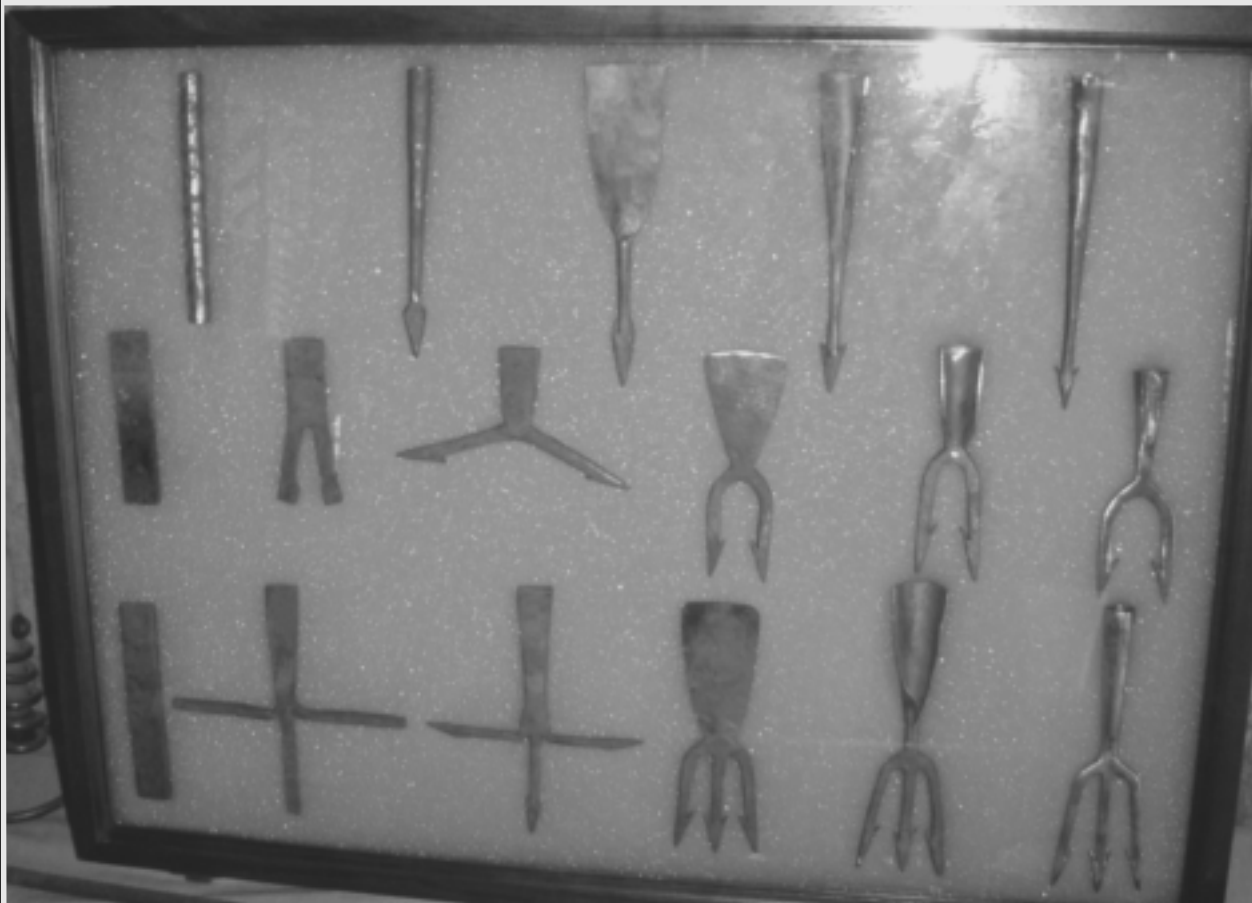


BAM

March April 2008



Fishing Gig story board display
By Ray Joe Hastings

www.bamsite.org

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**Newsletter of the
Blacksmiths
Association
of Missouri**

Volume 25 No. 2
MARCH APRIL
2008

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Bob Stormer

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Bob Stormer
Patti Tappel

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Kirk Sullens

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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.

Membership Application

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

New Member Renewing Member

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

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

See reverse

Send this form in an envelope with your payment to:

BAM,
c/o Bruce Herzog
2212 Aileswick Dr.,
St. Louis, MO 63129

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Kirk Sullens

I _____ hereby apply for membership in the Artist-Blacksmith's Association of North America and enclose \$ _____ as my annual membership dues for one year.

MasterCard VISA Check/Money Order

Card Number

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Exp. Date
(Required)

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Checks must be in U.S. currency

SEND RENEWAL TO:

ABANA

P.O. Box 816 Farmington, Georgia 30638

Dues Distribution:

1 year subscription Anvil's Ring: 68.5 % \$24

Adm. offices & other ABANA projects (Conferences, etc.): 31.5% \$11

The Blacksmiths' Association of Missouri is an affiliate of the Artist Blacksmiths' Association of North America, and is devoted to the preservation and advancement of blacksmithing and to communication among blacksmiths in Missouri and surrounding areas. BAM's newsletter's goal is to support these aims. Letters to the editor, tech tips, tools for sale or anything else which furthers these ends will be considered for publication.

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ABANA

From the Editor

By Bob Ehrenberger

I'm glad to say that the worst of winter is behind us now. I think that this is our week for Spring. Before you know it Summer will be upon us. By the time you get this, things will be starting to get hot, so drink lots of water while working and stay safe in the shop.

From what I hear, the George Dixon demo at Lou Mueller's shop was a huge success. Even with the short notice there were 40 members there to watch. I missed it, but Bob Stormer took pictures and did a write up for the newsletter. Our thanks to Lou for organizing the demo and to Bob for reporting on it.

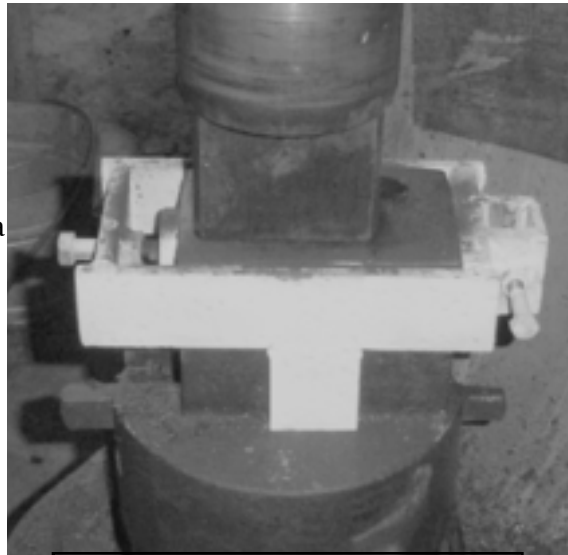
The meeting in Doniphan was well attended. Ray Joe Hastings demonstrated how to make a two prong gig. He also brought several gigs to show off, as well also put together a large museum collection of old fishing gigs of various types which we were invited to examine in the town historical society building.

The conference committee has been busy and there is lots of information in this newsletter. Please take the time to read it so you are ready and can get the most out of the conference. If you haven't signed up, you better get to it, you are running out of time. And please make a special effort to bring something for the auction and the boutique.

Concerning the conference and the newsletter. I would like some help covering the demonstrations. There will be three main demonstration areas, plus the knife maker, plus the history of power hammers exhibit. I would like to be able to pick a demonstration and watch it clear through. I feel that I learn more that way than if I try to float from site to site and pick up bits and pieces of all the demonstrators. So, I need help in cover-

ing the other demonstration sites. If you would be willing to take pictures and/or do a write up it would be greatly appreciated. Please contact me so we can coordinate our conference coverage.

Tom Clark was diagnosed with bladder cancer. He had his bladder removed Feb. 14th and is recovering well. I just talked to Tom and he said that the incision has healed well but there is still a lot of pain. The hardest thing for Tom is the total bed rest. He said that he does



Die tool holder I made after the January meeting.

get out and walk some, but it is killing him to lie in bed most of the day, when there are so many things he wants to do. Tom has remained active in the planning of the conference, using his vast experience to guide the committee through the process. We all know what a fighter Tom is, and if anyone can come back after something like this, Tom will.

There is some sad news to report. Ruben Funk, long time BAM member has died. I received notice from Steve O'Grady in Iowa that Ruben was in the last stages of leukemia and then less than two weeks later he was gone. Ruben

had been generous with his time, giving lectures on metallurgy and sharing his knowledge of steels and heat treating. He had tried to establish a permanent BAM blacksmith shop on the site of the Boone county steam engine organization.

This came out in the Columbia Tribune

Ruben Funk, 1955-2008

Published Monday, March 17, 2008
Ruben A. Funk, 52, of Davenport, Iowa, formerly of Columbia, died at 5 a.m. Saturday, March 15, at the home of his sister, Marie Whirlidge, in Millersburg, Ind. He had been ill with leukemia for 12 months.

He was born to Walter and Amanda Nisly Funk on July 28, 1955, in Pryor, Okla.

He graduated from the University of Missouri-Rolla in 1980 with a degree in mechanical engineering. He was a Professional Engineer, a 20-year employee of 3M, and most recently a 3M specialty materials engineer at Cordova, Ill.

Ruben was an active member of Vineyard Church of Davenport and participated in mission trips to Mexico, New Orleans and Central America. He was a blacksmith and a steam railroad enthusiast.

Surviving are his children, Jason Funk of Columbia, and Andrew Funk and Emily Funk of Davenport; two granddaughters; his mother, Amanda Funk of Millersburg; brother Harry and wife Margie Funk of New Carlisle, Ind.; and sisters Marie and husband Ben Whirlidge and Betty Funk, both of Millersburg.

He was preceded in death by his father, Walter Funk.

In lieu of flowers, Ruben has requested that memorials be made to Vineyard Ministries Central Mexico, 2402 W. Kimberly Rd., Davenport, Iowa, 52806. Online condolences may be sent at millerstewartfuneral-home.com.

The next Newsletter submission deadline is May 17. This gives you two weeks after the conference to send me your pictures. It is before Don Nichols' meeting but that can't be helped.

Minutes BAM Meeting

3/15/08 By Bob Ehrenberger

Held at the historic Tom Kennon blacksmith shop in Doniphan, Mo.

Thanks to Chris Miller for hosting the meeting, and to his wife for organizing a great lunch.

Thanks to Joe Ray Hasting for his gig making demonstration, and to the town of Doniphan for the tours of their museum.

BAM's current membership is 588.
We have over 200 people preregistered for the conference.

The ladies running the boutique and registration table would like some volunteers to help them out so they can get out and see some of the conference.

We have several power hammers lined up for the conference demonstrators, as well as an area set aside where vendors can set up and demonstrate power hammers for sale.

We still need volunteers for the hands-on teaching area. If you would like to help with this area, contact Kate Dinneen or Kirk Sullens.

Kirk forgot to bring the raffle tickets for the large items, like anvils so if you don't want to wait for conference to buy them, you can send money to Kirk and he will mail you the tickets. You do not have to be at the conference to win.

Don Birdsall reminded people that there will be MTS workshops in New Haven, MO June 21,22 in conjunction with the town's Festival of Fire.

In September, Don will have an MTS workshop at his shop in Rolla.

Next January 17, 18 there will be a MTS work shop in the Kansas City area.

Don Birdsall and Dennis Yates will be teaching the Boy Scout metal working merit badge at camp for three weeks this summer.

Don Birdsall is helping the University of Missouri at Rolla set up a blacksmith shop and program. UM Rolla is very excited to expand their metals program to include blacksmithing, and would like for BAM hold a meeting

at the university once they get the facility finished. They would also like for BAM members to loan finished work to display in their show cases. This is a great opportunity for BAM members to get some exposure and free publicity.

Ken Jansen is going to have a hammer-in April 5th. The main effort will be to make rings for the conference ring project. It is hoped to have more rings than are needed to fill the Lady Liberty panel, with the extra rings going into a fire place screen, which will also be auctioned off.

It was pointed out that the conference registration just covers the expenses of putting on the conference. Any profit for BAM comes from the Auction and the BAM boutique. So please make and bring items for the Auction and the Boutique.

I mentioned that Ruben Funk was sick and needed our prayers. (He had actually had passed that same morning.)

Tom Clark is having health problems, so keep him in your prayers.

Iron in the hat Donated by:

Don Nichols, bearing steel- won by Paul Lankford
Harry Weber, large pin - won by Tom Adams
Harry Weber, large pin - won by Richard Knapp
Bob Maes, - won by Matthias Penn
Mike Morton, RR spikes - won by Chris Miller
Dan Wedemeyer, catalog - won by Don Nichols
Don Birdsall, leaf spring- won by Harry Weber
Kirk Sullens, - won by Don Grammond
Several bundles of BAM newsletters won by:
Harry Webber, Matthias Penn, Chris Miller,
Dan Wedmeyer, Don Nichols, and G Miller

Trade items were made by:

Harry Weber won by Robert Bechdoldt
Bob Ehrenberger won by Don Birdsall
Don Birdsall won by Chris Miller
Don Nichols won by Bernie Tappel
Chris Miller won by Tom Adams
Matthias Penn won by Don Nichols
Robert Bechdoldt won by Matthias Penn
Dan Wedemeyer won by Dennis Mohrmann
Tom Adams won by Harry Weber
Bernie Tappel won by Dan Wedemeyer
Dennis Mohrmann won by Bob Ehrenberger

Editor's Note:

We got lucky as the Doniphan area was flooded three days after our meeting.

A Word From El Presidente

by Raoul (Kirk Sullens)

BAMmers,

The conference preparations are going forward at a terrific pace, and every day I slog through knee-deep email to stay caught up with what's going on where. I've found out there's a LOT more to putting on a conference than meets the eye, and getting everything to flow together at the right time is an exercise. Add to that the fact that, just as things DO start to flow, the plan has to be changed and many of the processes have to be started anew, and I have a whole new respect for Larry Hults, who did this for two (count 'em, two) conferences in a row!

To say that I'm doing this on my own would be a gross misrepresentation, and I want to thank all those people who are helping, and who have offered help, even if I haven't called upon you, yet. But there are two people without whom this conference would not be happening, and I want to thank them especially. First there is Tom Clark, who has been instrumental in lining up most of the demonstrators, inviting vendors, and providing us with an incredible amount of equipment, without which we would really be scrambling. And I might remind you that a big part of his "leg-work" has been done while flat on his back! Secondly, I want to thank Kate Dinneen, who has helped me stay organized (as much as that is possible with a right-brained person like me), has been the lubricant between what would otherwise have been critical friction points, and who, unfailingly, has helped me keep a positive outlook throughout these preparations. Thank you both.

These special thanks in no way diminish the efforts of the many others working to make this conference happen, but these two have been my captains in marshaling the resources of BAM while preparing for this conference, which has seemed to grow with a life of its own.

One thing I have added, for those who are not prepared to attend the entire event, is to add a daily fee of \$40 for those unable to be at the entire conference, but don't want to miss everything. I hope that will entice a few more of you to come and see what I think will be a great conference.

The March meeting in Doniphan was a really good

MARCH-APRIL 2008

day, and I'm glad so many of you came down to take part in it. We had a really good turn out. Thanks to Chris Miller for making it all happen. Due to Chris, and the community organization in Doniphan, we had a cool, historical-type setting for the meeting, an interesting demonstration of a bow-gig, a type of fishing gig I'd never even heard of before, an excellent barbecue lunch, a tour of the historical museum, and good rates at the local motel. What a combination! The community forge in Doniphan is a double side-draft forge made of brick, with a roomy shop for a few people to work, and for a good number to be in out of the weather. Next to it is a historical cabin and barn, all well-kept and very interesting to a history buff like me. And I've been in museums in much larger towns that couldn't hold a candle to Doniphan's. I had a great time.

What I didn't have was a voice, which got applause from all who attended the business meeting. I'd been a bit sick for 2 weeks, and lost my voice the morning of the meeting. Didn't get it back until Thursday following. Everybody else seemed happy about that. One thing I forgot to take to the meeting with me was the packet of tickets for Iron-in-the-Hat for the conference. I'll mail tickets to anyone who sends money and a clearly written return address before April 15th. Tickets are \$1 each. I'll pay return postage as penance for forgetting.

We'll be having our BAM business meeting and general elections at the conference on Friday evening. I'll try to keep it brief. Remember that we need a new treasurer. Bruce has served us well and definitely above the call of duty. Don't take him for granted. It's time for someone to step up. Consider doing it yourself, or talking with someone you think would be a good candidate. It isn't fair to Bruce to leave it in his lap.

See you at the conference,

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.

bamsite.org

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 # xToo Late _____
(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** _____

Wed. April 30

3:00pm Registration opens
 5:00pm ?? Demonstrator Dinner
 6:00-6:45pm Lecture #1 Heiner Zimmermann
 7:00-7:45pm Lecture #2 Josef Habermann
 8:00pm Forging Contest

Thurs. May 1

8:00am Registration opens
 8:30-noon Demonstrations
 1) Heiner Zimmermann
 2) Bob Patrick
 3) Michael Bendele & Joe Bonifas
 Noon -1:30 Lunch Lecture, Heiner Zimmermann
 1:30-5:00pm Demonstrations
 1) Josef Habermann
 2) Steve Mankowski
 & Shelton Browder
 3) Darryl Nelson
 5:05pm Daily Iron in the Hat Drawing
 7:00-9:00pm Informal evening with
 Demonstrators at Demo Sites
 Campground Jam, bring your instruments
 and vocal chords!!

Fri. May 2

8:00am Registration opens
 8:30-noon Demonstrations
 1) Josef Habermann
 2) Mankowski & Browder
 3) Darryl Nelson
 Noon -1:30 Lunch Lecture, Habermann
 1:30-5:00 Demonstrations
 1) Heiner Zimmermann
 2) Bob Patrick
 3) Bendele & Bonifas
 5:05pm Daily Iron in the Hat Drawing
 5:30pm ??? Banquet
 6:30pm BAM meeting and elections
 6:50pm Award Presentations
 7:00pm Auction

Sat. May 3

8:00am Registration opens
 8:30-noon Demonstrations
 1) Heiner Zimmermann
 2) Bob Patrick
 3) Bonifas & Bendele
 1:00-4:30 Demonstrations
 1) Josef Habermann
 2) Mankowski & Browder
 3) Darryl Nelson
 4:40 Major Iron in the Hat for Big Items, Auction off
 last of Demonstrator Pieces.

Immediately following Iron in the Hat on Saturday, begin tear down and cleanup

Other ongoing activities:

Make a Picket for Bonnie: Help finish Bonnie Hendrickson's balcony railing, steel, heat and tools provided
 History of Power Hammers, with special guest Don Hanson demonstrating knife making
 Gallery in FFA building
 Several smiths working on power hammers in power hammer vendor area
 Ring Project, help Rome Hutchins and crew put together this year's ring
 Craft Classes
 Teaching Station with Mark Aspery, schedule and sign up will be posted at the conference registration
 table

A few words from the conference committee

HELP WANTED!

As most of you know, Mara Harper and I have been riding herd on the BAM Boutique for lo these many years. This year, what with the conference being longer, and bigger and better, we would appreciate some extra help. We'd welcome folks who could help out with sales for a couple of hours at a time, any time during the conference. If you can help, please check in with us at registration (We should be right next to the registration table.) and sign up. Of course, anyone who would just like to hang out at the boutique and catch up with friends is welcome, as always.

IN ADDITION: Heather Hutton of ABANA's administrative office will be setting up in the same area as the Boutique with ABANA information/items. She would also welcome folks willing to help with her operation.

FINALLY: Michael Roberts of BABA (British Artist Blacksmith Association) will also have a table in the Boutique area. He, too, would welcome help with his operation. In fact, he's so keen on actually participating in the conference, that he's offering a free, one-year subscription to Artist Blacksmith (their equivalent of the Anvil's Ring) to someone who would take over major responsibility for his operation.

AND LAST BUT NOT LEAST, as always, we invite you to support BAM by donating craft items - blacksmith or other - valued at \$25.00 or less (over \$25.00 should go into the auction) to be sold at the Boutique. Items should be marked with the suggested price and the maker's name. People want to know who made it! Please check in with us before you head home to see if your items have sold. We do not have storage suitable for carrying over non-iron items from year to year.

Thanks! We're looking forward to seeing everybody at the conference, Ruth Hull and Mara Harper

BANG A BAR FOR BONNIE, For those of you who know and love the remarkable Bonnie Hendrickson, or just like to play in the fire, the BAM '08 conference will feature a "bang a bar for Bonnie" forging station. Steel, fire, anvil, water, and some basic tools will be provided. You bring energy and imagination, and we'll make some pickets for Bonnie's deck rail."

Walt Hull. Editor's Note: Please bring your touch mark to sign your work.

MORE ON THE RING PROJECT, All the rings sent to BAM are the property of BAM and I suggest a three man crew including myself and two of the team members who built the grill will choose the rings and arrange them in a place to make the best overall design. All excess rings can go to Ken Jansen's program if he needs them and leftover rings will be sold at auction and BAM gets all the proceeds.

As for the grill, half of the price for the grill will go to BAM and the other half will be given to the team that made the grill. If I have forgotten anything or gotten anything out of context, please feel free to call me but let's get it settled right away, so there is no misunderstanding at the end.

Best Regards, Tom Clark

IRON IN THE HAT, We've asked the other chapters to participate in Iron-in-the-Hat with us, and to give them incentive to do so we're letting them keep 1/2 the proceeds of ticket sales of OVER 100 TICKETS. If they sell all 150 of the tickets we sent them, they get to keep \$75 DOLLARS. They can also contact us to get more tickets, if there's still time before the conference.

Kirk Sullens

Family Programs

Kirk,

As I spoke to you a few weeks ago, I had asked the women in the classes I was teaching what they wanted to learn this year. The response was that they wanted to learn to spin with a drop spindle and to tat. So in addition to the broom class and the finger weaving class, I am planning on teaching these other two classes. The cost for each class will be \$30 per student. This will cover the cost of the materials. I have thought about how to coordinate this. I think that if we have the following schedule it will work.

Thursday 8-noon drop spindle
Thursday 1-4 finger weaving
Friday 8-noon broom making, 1st part
Friday 1-4 tatting
Saturday 8-noon finish brooms

If you have a problem with any of this, please let me know so I can make adjustments. Also, please announce at the meeting this weekend that these will be offered. If anyone has any questions they can call me at 660-678-3877 or e-mail me at camdenfarms@yahoo.com. Thank you for all the hard work you and Mona have put into this conference.

Katy Camden

BAM ELECTIONS

ATTENTION ALL BAM MEMBERS!!!!!!

It's coming up to nominating officers time. Please seriously consider talking to someone you think would be good or stepping up to the plate yourself. It is crucial that we have a new treasurer. Perhaps the best approach would be to have a couple of people fulfill the duties of that post. There will be a description of those duties and the requirements of the other offices posted at the conference. If the posts are not filled, perhaps BAM will have to go into hibernation for awhile.

Kate Dinneen

I would like to say again how important it is to find a replacement for Bruce. I promise that we will break down the responsibilities of the treasurer so that the new treasurer will not be overloaded by wearing too many hats.

Tom Clark

Shop Tip

On page 20, Matthew Burnett offered his solution to a stagnant wooden slack tub. When I first got my wooden tub, I had trouble with it leaching wine out of the barrel, since it had been previously used to store wine. I thought that after a while all the wine would be gone and the water would stay as fresh as if it were in plastic or steel. I was wrong and unless I changed the water every couple weeks, it would get pretty nasty smelling. Then I discovered that if I dropped in a couple chlorine tablets, the water would clear up and stay nice and clear until they were totally dissolved. I had the tablets left over from when we had an above ground pool (when the kids were little). The tablets last about a month and the one container of them has lasted about 8 years so far.

Bob Ehrenberger

How My Air Hammer Works By Bob Ehrenberger

I've gotten some positive feedback on my article about getting my air hammer working, so I thought I would continue with an explanation of it's internal operation.

As a bit of back ground a self-contained air hammer is fundamentally different than a mechanical trip hammer, or even an external source air hammer. With a mechanical hammer, you control the speed of the ram by slipping the clutch. If you barely engage the clutch, the ram moves slow and doesn't come all the way down because it doesn't have enough momentum to overcome the power of the spring on the toggle arms. If you engage the clutch fully, the crank comes up to speed with the motor, and throws the ram down hard enough to overcome the spring, driving the dies together.

With a self-contained air hammer, the ram always goes the same speed. Every time the crank on the compression cylinder completes one cycle, so does the ram. They are in lock step. What the operator controls is how far the ram travels, by how much air he transfers from the compression cylinder to the ram cylinder. If the crank is geared to turn at 250 rpm, the ram will cycle at 250 strokes per minute.

Let's talk a little about the basic construction. The back half of the hammer is just like any other air compressor. The motor drives a fly wheel which is connected to a crank which has a connecting rod that hooks to a piston. When the piston goes up, it pressurizes the upper chamber of the cylinder. When the piston comes down, it pressurizes the lower chamber of the cylinder. The compression cylinder has a port at the top and a port at the bottom that connect to two valves. The valves are basically pieces of pipes with slots cut in them, which, when lined up with the port, direct the flow of air. In the simplest sense, the valves have two positions. Position 1 directs the air from the rear cylinder into a central chamber. Position 2 directs the air from the rear cylinder into the front cylinder (the ram cylinder).

Let's look at the hammer when it is idling. Both valves are in position 1, so when the piston goes up the compressed air goes through the upper valve into the central chamber, through the lower valve back into the lower chamber of the compression cylinder, which now is pulling a vacuum (Figure 1). When the piston goes down, the compressed air goes through the lower valve into the central chamber, through the upper valve, and into the upper chamber of the compression cylinder, which is now pulling a vacuum (Figure 2).

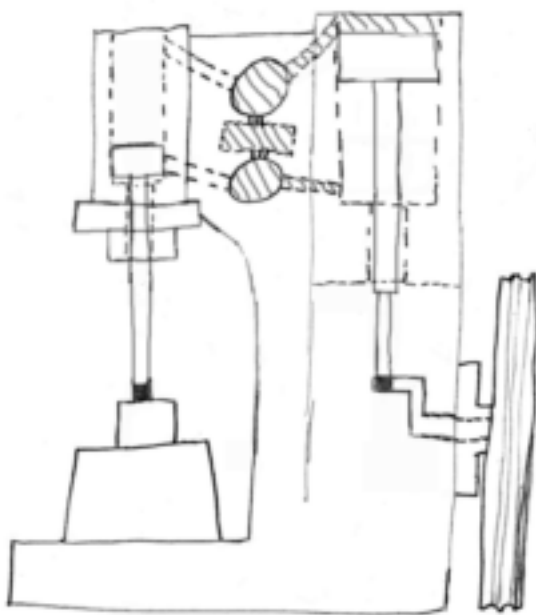


Figure 1

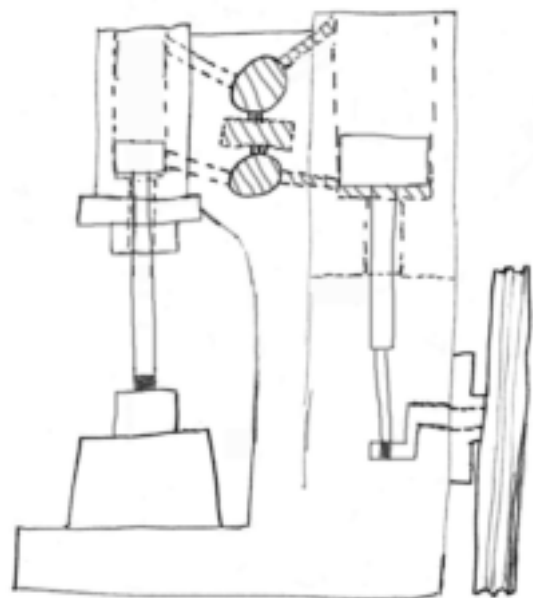


Figure 2

How It Works continued from page 12 ...

Now the idle condition I described is the general, most simple case. To get this condition on my hammer you have to pull a lever on the lower valve and let it rotate past the normal stop. If you let the treadle stop in it's normal position, the bottom valve is designed so that some of the air goes into the bottom of the ram and pushes it up out of the way. So you have the option of idle with the ram up or idle with the ram down. When the hammer is in either idle position, there is very little load on the motor because it is just moving air from the top of the compression cylinder to the bottom of the compression cylinder and then back again. In addition, the central chamber is also vented into the crank case so there is very little pressure built up on the piston.

Now when both valves are in position 2 and the piston is going up, the compressed air from the top of the rear cylinder goes through the upper valve and into the top of the front (ram) cylinder. At the same time the air from the lower chamber of the ram cylinder is going through the lower valve and into the lower chamber of the rear cylinder, which is pulling a vacuum (Figure 3). This pushes the ram down.

Likewise, when both valves are in position 2 and the piston is on the down stroke, the compressed air from the lower chamber of the rear cylinder is going through the lower valve and into the lower chamber of the ram cylinder. At the same time the air from the upper ram chamber is going through the upper valve and into the upper chamber of the rear cylinder, which is pulling a vacuum (Figure 4). This pushes the ram up.

So when the valves are in position 2, every time the piston goes up, the ram comes down, and every time the piston goes down, the ram goes up. They are in lock step and the ram runs at the same speed as the piston.

Now the control on a self-contained air hammer comes when the valves are in a position somewhere between 1 and 2. When the valves are part way, only some of the air goes from the piston to the ram and depending on the position of the valve, the ram can stop at any point in the stroke. It is really quite amazing to watch ram cycle at 250 strokes per minute and just tap the work each time, or with just a little more air, hit hard enough to shake the whole shop. I'm still very much a rookie at operating my new hammer, but the possibilities are breath taking.

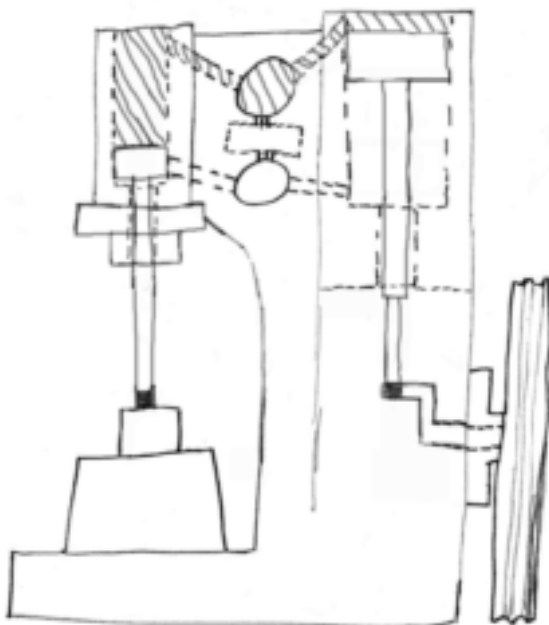


Figure 3

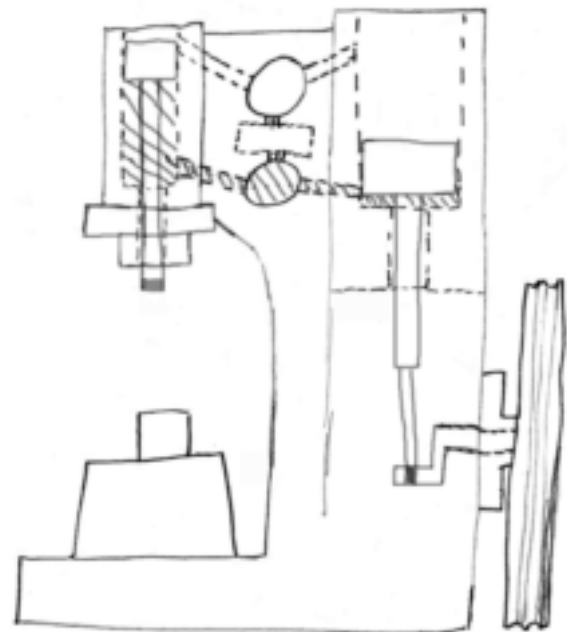


Figure 4

Meeting Report 3/15/08 Doniphan, MO By Bob Ehrenberger

My BAM weekend got started a little early as I went to Rolla on Friday and spent some time in Don Birdsall's shop. I finished up my trade item and then the two of us forged three small cones to go in the MTS trailer. This was no small deal, because we were using stock that ranged from 2 1/2" to 3" and doing the work on his 25# Little Giant trip hammer.

Saturday morning we got an early start and picked up Ray Scott at Eminence on the way. Even though Doniphan doesn't believe in street signs, we managed to find our way to the historic blacksmith shop about a half hour early. The weather played a trick on though, it was clear and warm in Rolla when we left, but by the time we got to Doniphan the temp had dropped and it was raining.

The blacksmith shop was set up well. It was like a museum with old tools hung on the walls all around. A real pleasure to look at for those of us that like old tools. It was a bit breezy though, with light showing through between most of the siding boards. I had to think twice about compensating for the cool weather with coffee, because the bathroom was some three blocks away.

Ray Hastings came ready to work and got right to it. He showed how to forge a two prong gig and then he showed how he makes his own shafts. using a small block plane and files.

After Ray was done, we packed up all the trade items and iron in the hat and took it up to the community center where they were going to have lunch. Chris Miller and his wife arranged for a nice lunch and for BAM to use the community center for our business meeting and our drawings.

Once again, we had real good participation in the trade item, with 11 members making some kind of fire poker. Everyone did a real nice job, with a couple of innovative designs that I may have to make use of on future projects.

After our meeting, the Doniphan historical society invited BAM to tour their museum which was strongly influenced by being a river town. The center attraction was a long wooden john boat and a display of fishing gigs. There was even a world record buffalo fish mounted on the wall.

The town of Doniphan did a real nice job of hosting the meeting and all the BAM members felt welcome.



Ray Hastings Gig Demo

By Bob Ehrenberger

The story board on the cover clearly shows the stages of the gig as it is being made so I won't redraw them here. What I will do is fill in the details of the process and show Ray doing the work.

Ray starts with a piece of cycle bar which in my estimation was $3/16"$ x $3/4"$. There were several holes in the bar where the blades had been riveted to it. Ray used these holes to his advantage to make the job easier.

First, the bar was cut so that the working end was right at a hole. Then the bar was split back about 2". He used a hole as a convenient stopping point so that he didn't have to deal with a ragged termination that might have continued to crack on the finished piece.

The cut was then pried open and cleaned up. Ray used a grinder to remove the rag edge from cutting, a more traditional way would have been to file it off.

Once the edges were cleaned up, he forged the tips to a point.



After it was pointed, he filed and ground a recess in the prongs where the tips of the beards (barbs) would end.

The beards were then hot cut and pried open.

They were then cleaned up and sharpened with a file.

When the beards were completed they were gently heated and folded back up tight to the prong shaft to prevent them from getting burnt off while the rest of the gig was being made.

The prongs were then shaped over the horn into their fork-like configuration.

The gig was then cut off of the main bar leaving about $1\ 1/2"$ of material from which to make the socket.

Holding the gig by the prongs, the socket end is spread until it is a little more than twice its original width. Ray said that since he was going to use a shaft that was $1/2"$ to $7/16"$ in diameter he had to spread the material to $1\ 1/2"$ or $1\ 3/4"$ wide.

The socket was then started in the step of the anvil. Once it was pretty close to round, Ray finished it over a mandrel that he had made to resemble the end of an arrow.



Once the socket was formed, he reheated the whole gig and got everything lined up. He then pried the beards back out into their working position.

As a final step, the tips were hardened and tempered. They have to be hard enough to stand up to use but not so hard that they break the first time you miss your fish and hit the river bottom.

Ray then showed how he makes the arrow shaft. He starts with a blank of clean fine grained pine that he has ripped down into a square.



The corners are then worked off with a small block plane. His plane was only about 2" long. Once it was pretty much round, he switched to a coarse file, then a smooth file, and finally sand paper. As a final touch, he used a tubing cutter to score the arrow where the notch is for tying the cord onto it.

GEORGE DIXON DEMO AT LOU MUELLER'S SHOP 2-2-2008

By Bob Stormer

A BIG BAM Thank You to Lou Mueller is certainly in order for hosting the George Dixon seminar/demonstration on February 2, 2008 at his shop in St. Louis. It is precisely this kind of activity that continues to foster interest in blacksmithing that is necessary for it to survive and grow. Attendance, according to Lou, was much more than he anticipated. I didn't try to count heads, but would guess it was around 30 – 40 people.

George brought a lot of items for display that he had made over the years. I took a few photographs of the tables full of items, but unfortunately they don't show the details of many of the pieces. And, as George stated, the outline/shape of the work draws a person to look closer, but it's the details of the work that reward that person for taking time to look closer. Most of what George makes is one-sided, i.e. it's flat on the back side. If the finished piece is going to be seen from both sides it is necessary to face some parts in each direction.

His demonstration included making a Florentine leaf, a cross, and another leaf. The Florentine leaf started with 5/8 square stock. The first task was to identify the length of the tendril by notching the bar stock about 2 to 2 1/2 inches from one end over the edge of the anvil. See Figure 1. The tendril area is then drawn out and shaped to a point as in Figure 2. It is important to not make the material too thin at the step, or along the tendril, as this could lead to a weak spot or result in a crack as the rest of the leaf is worked. It will be thinned later after most of the forge work is completed. It is also necessary to



Figure 1

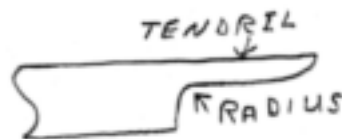


Figure 2

leave a radius on the inside corner of the step.

The main area of the leaf is then pulled down as shown in Figure 3. It is left about 1/3 the original thickness of the stock, so later fullering can be accomplished.



Figure 3

The area behind the leaf is shaped over the anvil horn and will become the stem. Again, don't make this area too thin.

The next step is to chisel a line parallel to the top edge that will be a vein in the tendril. George performs this step cold, as he does most of his detail work. It's easier to control the detail when you don't have to hurry. See Figure 4. If you want the vein deeper, start it cold to leave a mark to follow and then heat it and use the chisel to make it deeper. The chisel is also used to make a line for the fuller in the leaf. A small fuller is then used to shape the chisel line in the tendril. As the tendril is drawn to a taper the fuller will narrow down proportionately. A larger radius fuller is used for the leaf. When fullering these lines it is important to keep the transitional area between the leaf and tendril at a forging heat to prevent cracking while working in nearby areas.



Figure 4

The only steps left are to form the stem and tendril over the anvil horn as shown in Figure 5.

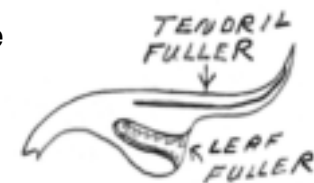


Figure 5



Finished Florentine Leaf

Continued on Page 17

George Dixon Demo Continued...

The next demonstration George did was to show how to make a symmetrical cross with sharp inside corners from bar stock. Similar techniques could be used to split bar stock into any number of arms.

George started with a piece of 1 1/2 x 1/4 x 6" stock. He used a chisel to mark a line starting from each end midway through the 1 1/2 inch dimension, making each arm 3/4" wide, to about 7/16" from the center. This would leave about 7/8" in the center that will be the material in the center of the cross. It is necessary to leave a little over the 3/4" dimension for cleanup when trying to even out the arm after spreading. See Figure 6.

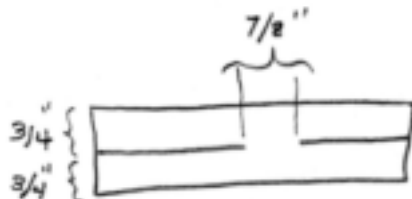


Figure 6

Once the lines were marked, George continued using the treadle hammer to deepen the grooves without heating the work until it was about to separate. A sacrificial mild steel plate was used to finish the slitting with very light taps. This gradual method of slitting eliminates the tears and the need to file clean up. The arms are spread using the edge of the anvil. See Figure 7. This will



Figure 7

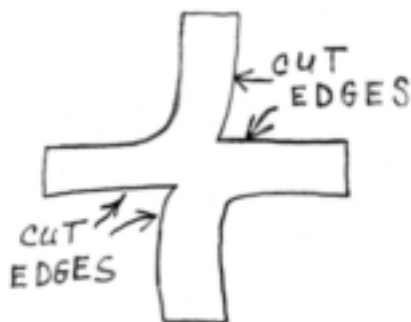


Figure 8

result in the cross as shown in Figure 8. If you make the width of the arms slightly smaller than your anvil's hardy hole you can drop one arm through the hole while you square and even the two horizontal arms as shown in Figure 9. Rotate it 90 degrees and repeat this until all arms are square and even.

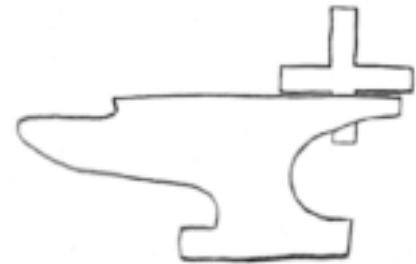


Figure 9

To clean up the inside corners, one arm can again be set in the hardy hole and butcher, chisel, fuller, etc. can be used as a set tool. See Figure 8. George made use of the hole in the treadle hammer anvil for this task. Although George did not take this demo any further it could easily have been continued to result in something like the photo *Finished cross George brought to use as an example.*



Crowd watching the Dixon demo.

Continued on Page 18

George Dixon Demo Continued ...

The third demonstration George did was a more standard, but finely executed leaf. He started with 1 1/2 x 1/4 flat stock. Rounding the corners of the stock on a grinder before starting to shape the end to a point will eliminate the chance of a "fish mouth" shut at the end. See Figure 10.

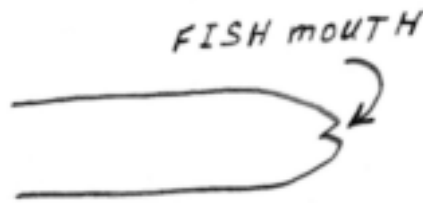


Figure 10

The leaf length is defined by the fulling over the anvil edge as shown in Figure 11. The next step is to taper the edges of the leaf by pulling the point and two sides out from both sides. Draw these edges out by hammering on both sides of the stock as in Figure 12. The final stage of forging is to flatten the leaf on one side in preparation for veining.



Figure 11

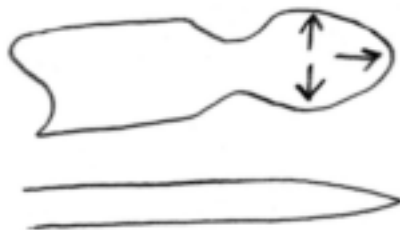


Figure 12

The following detail is again done with the work being cold and using the treadle hammer in conjunction with a variety of butchers and

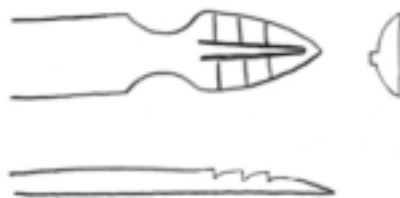


Figure 13

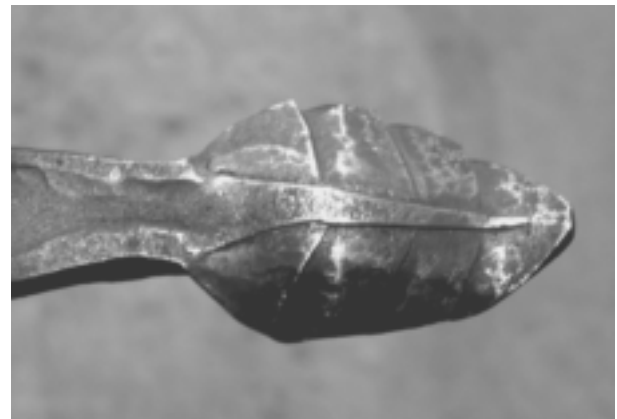
chisels. The next step is to chisel the veins in the leaf. The main longitudinal vein is made with two

chisel cuts converging at the point of the leaf. Next there are three veins cut perpendicular to the main vein on each side. These veins are then formed with a fairly steep butcher to start and followed by a shallow butcher to flatten more material away from the "raised" vein. See Figure 13. It is important that each butcher be the same width. See Figure 14.



Figure 14

After completing the veins, the leaf is again put in the forge to bring it to forging heat. It is then hammered from the back side with a large ball peen hammer over a block of hardwood. The hardwood will preserve the details of the leaf while allowing the leaf to be contoured. The point of the leaf is then curled back to give it a realistic look. George used a file to clean up some the edges and surface. See the attached photo for the finished leaf.



Finished Leaf

To finish off work like this that will be inside George uses a mixture of 60% boiled linseed oil and 40% turpentine applied to the cold steel. This is brushed on and allowed to dry overnight or longer if necessary. He then follows this with three coats of paste wax.

Continued on Page 19

George Dixon Demo Continued ...

Following the demonstrations, George took questions for the audience and talked a little about working in the Samuel Yellin shop. Despite the massive size of some the work done in the Samuel Yellin shop, there was no heavy equipment to move it around the shop. It was all done by levers and people. There were about 350 employees at the peak of work and about 250 of those were metal workers and blacksmiths. Yellin was able to hire a lot of European master smiths who were displaced when the economy in Europe collapsed following WWI.

In George's shop, the treadle hammer is king. George does a lot chasing to add detail to his work, most of which is done cold. The original name for the treadle hammer was an Oliver, named after Oliver Cromwell and was made of wood.

To get a pattern transferred to metal from paper George uses spray on adhesive to hold the pattern until the outline and desired detail is marked. The paper is then removed so it doesn't interfere with the tooling. George makes most of his chisels, fullers, butchers, etc. out of S-7, which is an air hardening, shock resistant steel. However, George uses a brine solution to harden it after normalizing it at yellow for about 10 minutes. The saltwater solution is correct when a potato will float about half way out of the brine. Chisels should have no sharp corners and the edge should be curved to allow the chisel to be "walked" along the steel.

There are three types of welding used by blacksmiths. Fire welding is done inside the forge and is sometimes called a jump weld. Forge welding is done outside the fire on the anvil. Containment welding is joining two pieces of metal using a collar or similar device.

George used a safety device that I believe was made by Lou to prevent crushing his hand when using the treadle hammer. It rests on the cross bar of the hammer behind the anvil and contacts the leaf spring just behind the head to prevent it from coming all the way down.



Safety Device
made from 1/2"
square stock.



Safety Device
Installed on Lou's
treadle hammer.

Sedalia Motels

Motels with group rates for the BAM Conference 2008

Best Western-660-826-6100

Has 15 rooms blocked for the conference, but only 2 are non-smoking. Rate is \$77 plus tax per night, with 2 breakfast buffet tickets included. If more than 2 people occupy the room, additional breakfast tickets are available for \$4 each.

Comfort Inn-660-829-5050

Has 11 rooms, 2 non-smoking. Rates are \$72.86 plus tax per night for single or double occupancy, with additional guests costing \$10 more each.

Hotel Bothwell-660-826-5588

Has 48 rooms available. Though not as conveniently located to the fairgrounds, the Hotel Bothwell is in the downtown area, near shopping and other activities for family members not attending the conference. A Sedalia historic landmark, the hotel has a nice, upscale vintage feel. Rates vary depending on the room, from \$74.99 to \$189.99 plus tax per night. AAA and AARP discounts are welcomed.

Super 8 Motel-660-827-5890

Has 10 rooms, all smoking. Rates are \$53 plus tax per night. If non-smoking rooms are available at check-in time, you will be able to switch. Please give confirmation number P33402 when checking in.

Ramada Inn-660-826-8400

Has up to 116 rooms, but for April 30th and May 1st ONLY. Rates \$59.95 plus tax per night for single or double, with breakfast from 6-9.

If you checked in online, or before these rates were arranged, please mention that you are attending the conference when you check in.

Other motels in Sedalia-

American Inn-660-826-2488

Budget Host Super 7-660-827-0215

Georgetown County View Estates-660-826-7468

Georgetown Inn B&B-660-826-3941

Sedalia House B&B-660-826-6615

Stardust Motel-660-826-8662

Sunset Motel-660-826-1446

Shop Tips From: Matthew Burnett

I like to keep a fairly neat shop, so I did not like it when the water in my slack tank (an oak wine barrel) became stagnant. I tried putting bleach in the water periodically but without any apparent results. Then my sister suggested that I buy a aquarium air pump. I knew that my barrel held about 55 gallons (of water!) fortunately, for that was necessary information for choosing a pump. The one that I purchased is an Aqua Culture Aquarium Air Pump rated for 20 to 60 gallons double outlet (two hoses) and two check valves. (These prevent the hoses from siphoning water back up into the pump when it is unplugged.) It cost about \$11.00 and two feet of rubber hose cost \$3.00. I simply hung the pump over the edge of the barrel with a hook and weighted the hoses down on the bottom of the barrel with a short length of chain. Except for a bit of scum on the sides this has worked great. Although I finally did drain my barrel after it nearly froze during the extremely cold weather this winter.

I have an annealing tank that I am very pleased with. It is an old washing machine (old enough to have a place to attach a ring roller). It is made from aluminum I believe, it stands at a comfortable height, is fire proof, and already has a hinged lid. I filled it with fine wood ashes, this worked great until I lost a small worn-out file among the ashes. Now I have cut out some small pieces of scrap sheet steel to lay on top of the spot where something is buried. Or if I am very forgetful, I can write on them with soapstone or chalk whatever object I am annealing. Before I annealed everything in coal ashes, but I am not sure which sort works best. Wood ashes seem to be made of finer particles, so theoretically they would be denser and keep the steel hot longer. Perhaps someone already knows? I just thought I would share this, it has been interesting to me and might be useful to others in BAM.

MTS (Moble Training Station) Activities

New Haven, MO -- June 11,12 2008

Rolla, MO -- September 13, October 11 2008

Drexel, MO -- January 17,18 2009

Basic Blacksmith workshops to be held at:

The Festival of Fire

New Haven, MO

Workshop number one on June 21, 2008

Workshop number two on June 22, 2008

Workshops one and two, the cost is \$20.00 dollars per person for each day. Everyone taking any of the workshops must be BAM members. For registration contact David Smith (573)-237-2286 Questions concerning the workshops contact:

Don Birdsall 1-573-364-7223

email Donbirdsall@embarqmail.com

Basic blacksmith workshops number 1 & 2

(MTS Workshops) held at:

Don Birdsall

11570 CR 5480

Rolla, MO.

573-364-7223

E-mail: donbirdsall@embarqmail.com

Workshop number one on September 13, 2008

Workshop number two on October 11, 2008

Cost is \$20.00 each day. Everyone taking any of the workshops must be BAM members.

Send registration and all enquires to Don Birdsall.

Please include a telephone number where you can be contacted. Please bring a lunch both days.

Safety glasses must be worn while all forging is being done. Aprons and gloves are optional, must be provided by students.

Workshops start at 8 am, please arrive early so we can start on time. We try to end around 4 pm.

Directions to Don's shop:

From the intersection of I-44 and Highway 63 at Rolla, MO. go south on 63 to Highway 72 east to Salem, Mo. Left on Highway 72, go two miles to O - Highway (Lecoma Road) a right turn on O- Highway. Ten miles south Look for a highway sign on the right shoulder of O - Highway [ENTERING DENT COUNTY] make a left turn on to Dent County Road 204 go east one mile my shop is the second drive way on the right after turning off O Highway (I will have a sign up at the intersection of CR 5480 and CR 204 and a sign across from my drive way).

MARCH-APRIL 2008

Basic Blacksmith Work shop number 1&2

(MTS Workshops) held at:

William (Toby) Tobler

33421 McClellan Road

Drexel, MO. 64742-8272

816-619-2296

E-mail: wtoblercf@hotmail.com

Workshop number one on January 17, 2009

Workshop number two on January 18, 2009

Cost is \$20.00 each day. Must be a BAM member.

Send registration to Toby at the above address:

Please include a phone number where you can be contacted.

Location of Toby's shop:

From Harrisonville take highway 2, west to D Highway, south to 331st street, left to McClellan Road 1/2 mile, Right turn, to 33421 McClellan Road.

Please bring a lunch both days.

Safety glasses must be worn while all forging is being done. Aprons and gloves optional must be provided by students.

Workshops start at 8 am, please arrive early so we can start on time. We try to end around 4 pm.

Send inquires about the workshops to:

Don Birdsall

11570 CR 5480

Rolla, MO.

573-364-7223

E-mail donbirdsall@embarqmail.com

BAM Membership is \$25.00 for one year, send BAM Membership to:

Bruce Herzog

2212 Aileswick Drive

St Louis, MO. 63129-3604



Affiliate Liaison Letter, February 2008

Greetings Friends of Blacksmithing,

As I write this January is now history. First off, we have a new Affiliate organization! The Association of Alaska Blacksmiths has joined with Jerry Frost as Coordinator.

Since my letter in November we have the privilege to welcome 2 new members to the board. The ABANA Board was short two members due to the resignations of Bobby Floyd and Will Hightower. John H. Yust, an architect from St. Paul, Minnesota was elected to the board position expiring in 2010 and Peyton Anderson of Farmville, Virginia to the board position expiring in 2009. Peyton is President of the Blacksmith Guild of Virginia. Subsequently, Linda Tanner was elected to the office of Treasurer. I am happy to report that Peyton has joined me on the Internet Committee and is doing great work for the membership.

Speaking of membership, January membership results are in. With your help, January's new and renewal memberships were better than any month of 2007. We are excited by these results and heartened by the trust you have placed in us. There is still more to do. So we have decided to extend the Hammer's Blow Archive CD offer until March 31st. But that is the absolute deadline. (See the notice on the lower right corner of the <http://www.abana.org> home page.) Don't miss out!

Your ABANA Board Sales and Member Services committees are almost ready to unveil a new member benefit. This will be announced on the web site as soon as the final details are worked out. Current ABANA members will get a 5% discount from a number of leading Blacksmithing supply firms. I would especially like to recognize Linda Tanner for leading this effort. Other member benefits such as discounts for classes are available and more are in the works.

ABANA board members will make an extra effort to be available to you at affiliate conferences this spring

and summer. ABANA will sponsor a demonstrator from Europe at the Blacksmith Association of Missouri conference (May 1-3 in Sedalia, MO – see www.BAMsite.org). ABANA Board member Rome Hutchings is leading the Ring Project at this conference.

The ABANA web site is being updated with new features:

- Six new installments in the Controlled Hand Forging series from the Hammer's Blow were posted in December. (see <http://www.abana.org/resources/education/chf.shtml>)
- A page on the site for professionals will provide resources not available elsewhere. See the article on securing work doing public art projects by Jill Turman. (http://www.abana.org/business/Professionals_corner.shtml)

A number of groups are getting close to the goal of getting a free day of demonstration for their events. Several of the board members including Chris Winterstein and Dorothy Stiegler are donating their services as demonstrators; some off-board blacksmiths including Dan Nauman are participating as well. Affiliates (or groups of affiliates meeting together) who have 15-20 new or returning paid-up ABANA members can take part. Chris is the lead demonstrator on this program. Full details and availability dates on application.

We are seeking nominations for the Joe Humble Newsletter Editor Award. Contact Rome Hutchings (rome.hutchings@theprairieismyarden.com) for details and a nomination form.

The survey, this letter and our Constant Contact e-mails are ways that we have used to keep communications open. We welcome your letters and e-mails and will take all your suggestions seriously. I can be reached via pboulay@abana.org.

Best Regards,

Paul Boulay
ABANA Affiliate Relations Board Member



ABANA

Artist-Blacksmith's Association of North America, Inc.
P.O. Box 3425, Knoxville, TN 37927-3425 USA
865-546-7733 tel · 865-215-9964 fax
abana@abana.org · www.abana.org

Safety First

This safety statement is a guide to safe working; not complete instructions.

Eye and ear protection.

- ◇ Always wear eye protection when working. Proper protection means impact resistant lenses and side guards.
- ◇ Always wear ear protection when working.

Clothing safety.

- ◇ Wear leather shoes. Protect ankles by either high top shoes or extra long pants.
- ◇ Wear only natural fiber clothing.
- ◇ Aprons, while optional, gives protection from flying or hot objects.

Personal protection devises.

- ◇ Use a respirator when grinding.
- ◇ Use a respirator when using chemicals.
- ◇ Use proper safety gear and proper hood or goggle shade when welding.

First aid.

- ◇ Take breaks on a regular basis.
- ◇ Maintain an adequate first aid kit.

Shop safety.

- ◇ No horse play or use of intoxicants.
- ◇ Be aware of the direction of flying scale and hot cutting slag.
- ◇ Do not collect clutter for people to trip over.
- ◇ Securely fasten gas cylinders in a standing position.
- ◇ Maintain proper ventilation for gas and coal forges.
- ◇ Read and understand the manuals for your equipment.

Fire safety.

- ◇ Maintain easily available fire extinguishers. Have them certified at proper intervals.
- ◇ Stove pipe and chimney connections must conform to code.
- ◇ Store combustible materials in a metal cabinet away from forging and welding areas.
- ◇ Make sure your forge fires are extinguished and equipment turned off when leaving the shop.

Always think safety.

- ◇ If it looks unsafe, it probably is. Don't do it.

Buy, Sell, Trade

Individual Classified ads

For Sale: Two post vises, about 4" jaws. 75 each, one Canaday-Otto blower with adjustable handle and stamped Western Chief and Royal, one Champion 400 blower on tripod stand, one ratty old Mouse Hole anvil, about 125lb.
Tom Moran cavecreekfarm@yahoo.com

For Sale: Antique blacksmith's post vice, a tool I have used. Spring is missing. Jaws open to 4 inches and are 4.75 inches wide, weight is 47 lbs without anchoring bracket. I am in Kansas City, Mo, north. \$120.00 or best offer. Dan Ravenelle
816-453-5709

Commercial / Resource ads

Services:

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

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

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

Beverly Shear Blades Sharpened. Remove blades from shear and ship to Clay Spencer, 934 Partridge Lane, Murphy, NC 28906. \$35 plus postage, additional cost for deep notches or blades previously sharpened at angle.

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

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

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

Subscribe to Jerry Hoffmann's **Blacksmith's Journal**, a monthly publication for blacksmiths. 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.

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

The Upper Midwest Blacksmiths Assoc (**UMBA**) **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

Price is \$30US including postage to US and Canada, \$32US to other countries. Send check or money order 73 Penniston Private Drive, Somerville, AL 35670, Also, lead workshops for chapters or groups to build 15 to 20 hammers. phone 256 498-1498, cell is 256 558 3658, email is clay@tirehammer.com

New England School of Metalwork

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

Products

Heavy duty **Frying Pan Blanks:** Steel, approximately 9 inch in diameter with 2 inch sides. 12 gauge (2.5 lb.) or 14 gauge (1.75 lb.) thickness. Contact: Bob Tuftee, 3855 Aspen Hills Dr., Bettendorf, IA 52722; bobforge@hotmail.com; (563) 332-4800.

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

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

Buy, Sell, Trade, Continued

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

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.

Persimmon Forge **PEDAL HAMMER** sit down treadle hammers for sale. Contact Dave or Betty Edwards by e-mail at djedwards@cableone.net, or write or call the manufacturer, Daystar Manufacturing at 3701 West 6th, Emporia, Ks., 66801, (620) 342-4440. For more information, go to www.persimmonforge.com and click on both "Pedal Hammer" and "Video Demo of Pedal Hammer."

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

USA Dealer for **REFFLINGHAUS ANVILS**, 77 to 1250 lb. European 2 horn with or without upsetting block & side shelf. Over 100 sizes and styles available. Guaranteed face @ HRC59 Dick Nietfeld www.blksmith.com Phone (308) 384 1088

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

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.

Hammer In 2008 at the John Deere Historic Site

August 2,3 2008

We are very excited about this event. We are continually adding more to the event. Registrations are starting to pour in as most folks like to plan their year in advance, especially when travel is involved. The event promises to be one of the largest 2 day events being held. As described in the flyer, this is our third event. In addition, there will be a special joint project between woodwrights and blacksmiths and will include Roy Underhill as a participant. We will also have the Mastermyr Replica Project on display, along with Mastermyr Find books on sale. Several TV shows are planning to film the event, including Heartland Highways, which is broadcast nationwide on satellite.

This Hammer In is a little different than most as it involves public attendance, active continuous demonstrations by the registrants, features Roy Underhill from PBS's The WoodWright Shop, includes many other related craft demonstrators, is held at the wonderful John Deere Historic Site in Grand Detour Illinois, the site of John Deere's original blacksmith shop, and is mainly intended to educate the public about blacksmithing.

We appreciate your support in promotion of this significant, historic event and the continuance of blacksmithing in general. I apologize for the large attached file. If you have any questions, please email or call.

Terry Husted
Hammer In 2008 Planning Committee
H(217)935-2483
W(217)937-3834

Gunter's Quench?

Working in my shop I heard my dog Joey chasing my cat Sally. She came up and jumped up on my leg. I looked down and she was a wet greenish gooey, slimy mess. It took a second to realize what she gotten into. I had left the lid off my bucket of Gunter's Super Quench and she must have fallen in trying to get away from Joey. I took her in the house and rinsed her off real good. After I dried her she came out really shiny and fluffy. Maybe Rob should rename his quench Gunter's Cat Shampoo.

Ed Harper

Need Coal ?

Check on Availability

Coal Captain: Bob Alexander



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

5. Jeff Willard, (417) 742-2572
P.O. Box 416,
Willard, MO. 65781

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

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

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

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

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

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

April 1 - Application deadline for May Scholarship awards
April 5 - Ring Project Hammer-in Ken Jansen, Moscow Mills Mo 663-295-5844.
April 12,13,26,27 Treadle Hammer WS DeSoto, MO. Bob Alexander 636-586-5350, Ned Digh 573-642-8332
May 1-3 - BAM's 17th annual Ozark Conference Sedalia MO.
May 17 - Newsletter Submission Deadline
May 24- BAM Meeting Don Nichols, Sedalia, MO.(660)-826-9252 Trade Item - Candle Holder
June 21,22 - MTS #1,#2 Workshop (Basic BS) David Smith, New Haven MO
July 1 - Application deadline for August Scholarship awards.
July 12- BAM Meeting Bob Ehrenberger, Shelbyville, MO. (573)-633-2010 Trade Item - Nut Cracker
August 2,3 - John Deere days Grand Decator, Ill.
September 13 - MTS #1 Workshop (Basic BS) Don Birdsall, Rolla,MO (573)-364-7223
September 27 - BAM Meeting Ned Digh, Ham's Prairie, MO. (573)-642-8332
October 1 - Application deadline for November Scholarship awards.
October 11 - MTS #2 Workshop (Basic BS) Don Birdsall, Rolla,MO (573)-364-7223
November 1- BAM Meeting Don Birdsall, Rolla MO (573)-364-7223
January 1 - Application deadline for February Scholarship awards.
January 17,18 - MTS #1,#2 Workshop (Basic BS) William Tobler. Drexel. MO 816-619-2296
Note: For all MTS (Mobile Training Station) classes contact Don Birdsall for information (573)-364-7223

New Members

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

Mariette, David
4020 160th Street East
Rosemount, MN 55068
david_mariette@anvildancer.com
612-889-3291

McCormick, Robert
84195 N. Factory Road
Folsom, LA 70437
ramccormick@Charter.net
985-796-1936

Reeder, Chris
P.O Box 145
Lebanon, MO 65536
tcpyro16@hotmail.com
417-288-9764

Slader, Dean
614 S. East Street
Valley, NE 68064
dglslader@cox.net
402-359-2650

Walsh, Patrick
830 Labonne Parkway
Manchester, MO 63021
636-227-2963

Meyer, Sheryl Lynn
3434 E. Seventh Ave
Columbus, OH 43219
sherylfromohio@earthlink.net
614-235-0039

Goebel, Joe
1412 Liberty Ave
Richmond, IN 47374
765-935-5291

Budd, Howard
RR# 3
Elmwood, Ontario Canada NOG
1S0
519-363-5897

Loomis, Sean
8908 Moritz
Brentwood, MO 63144
314-644-3085

Giesler, Aaron
340 Cap Au Gris
Troy, MO 63379
aaron.giesler@yahoo.com
636-462-3470

Peel, Paul
1305 W. Linden Ave
Independence, MO 64052

Finley, Martin
14978 Crystal Drive
Excelsior Springs, MO 64024
816-630-4221

Pessin, Sam
421 South Missouri Ave
Belleville, IL 62220
kb9vtp@charter.net
618-233-6949

Moore, Robert
1376 State Route 17
West Plains, MO 65775
417-256-7718

Cuka, Timothy
42434 303rd Street
Tabor, SD 57063
605-463-2348

Canova, Frank
202 N. Market
Waterloo, IL 62298
fcanova_ic@yahoo.com
314-566-5154

Quinnell, Pauline
8, Clinton Road
Leatherhead, Surrey KT11 8NX,
England
rjquinnell@aol.com
44 1372 375148

Hutchison, David
31834 Geib Road
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farmanvil@yahoo.com
410-310-3347

Hartwig, Dave
606 N. 8th Street
Northwood, IA 50459
tiggersue49@yahoo.com
641-324-2265

Shouse, Jerry
3809 Haywood Court
Nashville, TN 37211
shouseblacksmith@bellsouth.net
615-833-5518

Quinnell, Richard
8, Clinton Road
Leatherhead, Surrey KT11 8NX,
England
rjquinnell@aol.com
44 1372 375148

Miller, Steve
410 Clark Street
Iowa City, IA 52240
319-338-3938

Thomas, Bryan
124 W. Clark
LaPlata, MO 63549
thomascc1@centurytel.net
660-332-7231

Wofford, Alan
HCR 81 Box 20-A
Salem, MO 65560
woffords@embarqmail.com
573-729-2718

Weisenborn, Fred R.
2039 Columbia Quarry Road
Columbia, IL 62236

Next Meeting: May 24 Sedalia, MO.



Location:
3960 Suburban Ln
Sedalia, Mo

Host: Don Nichols

Trade Item: Candle holder

Lunch: Will be provided

Phone: 660-826-9252

Demonstrators:
Don Nichols, jigs and tools

Driving Directions:
Coming in on U. S. Highway No. 50, turn South on Hwy M at the East edge of town. Turn left on Suburban Ln. If you miss Suburban Ln turn left on McVey Rd (40th St) then left again on Suburban Ln.



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