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March-April 2001

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NEWSLETTER of the BLACKSMITHS ASSOCIATION OF MISSOURI

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Offset tool

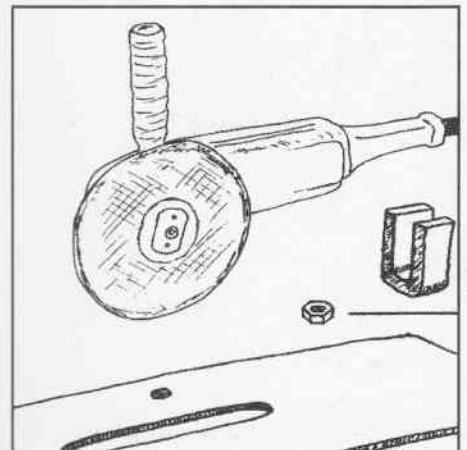
20 Making shallow offsets in flat stock is easy with this simple tool.

May meeting

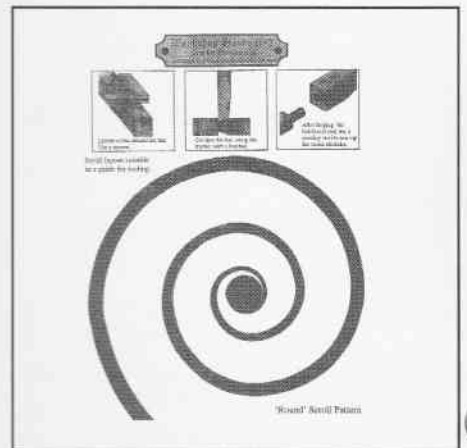
23 We travel to Sedalia for something other than the State Fair.



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Newsletter of the Blacksmiths Association of Missouri

Volume 18 No. 2

March-April 2001

Our cover: "Happy Family" sculpture was made by editor Jim McCarty with some welding help from Don Asbee.

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Jim McCarty

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Bob Alexander

George Dixon

Walt Hull

Pat McCarty

Ed Harper

Mailing Labels

Maurice & Bess Ellis

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 \$20/year; a portion of this amount is for a subscription to this newsletter for one year. Editorial inquiries should be addressed to: Jim McCarty, P.O. Box 104718, Jefferson City, MO 65110; (573) 395-3304 or you can send e-mail to jimmac@socket.net. BAM membership inquiries should be addressed to: Maurice Ellis, Rt.1 Box 1442, Belgrade, MO 63622, (573) 766-5346 or send e-mail to mbellis@misn.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.

BAM

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Bob Alexander

1st Vice President
Mike Williamson

2nd Vice President
Don Nichols

Secretary
John Murray

Treasurer
Maurice Ellis

Website
www.bamsite.org

The Blacksmiths' Association of Missouri is a chapter 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.

The Newsletter of the Blacksmiths' Association of Missouri and its members do not manufacture, distribute, sell, test, warrant, guarantee, or endorse any of the tools, materials, instructions or products contained in articles or features in the Newsletter of the Blacksmiths' Association of Missouri. The Newsletter of the Blacksmiths' Association of Missouri disclaims any responsibility or liability for damages or injuries as a result of any construction, design, use, manufacture or other activity undertaken as a result of the use or application of information contained in any articles or features in the Newsletter of the Blacksmiths' Association of Missouri. The Newsletter of the Blacksmiths' Association of Missouri assumes no responsibility or liability for the accuracy, fitness, proper design, safety or safe use of any information contained in the Newsletter of the Blacksmiths' Association of Missouri.

Bob's Bidness

Well, spring has sprung and conference time is upon us. I hope that everyone feels like myself in that you only get out of something what you put into it. BAM is a volunteer organization with no paid staff and so we shouldn't expect to have everything done for us. Whenever you can lend a helping hand every member should do so.

For those attending our conference in May who are not familiar with ways to help let me mention a few. Friday is set-up day where we have to arrange the fairgrounds for the demos, trade show, etc. and help is always needed.

Also during the conference such activities as the BAM Boutique, the Saturday night auction and on Sunday afternoon when the demos are finished help is always needed for loading and the big cleanup. Please do your share to make your conference a success.

In March we had our bi-monthly meeting at Belgrade, Mo. hosted by Maurice and Bess Ellis. Nice weather, great demos a large turn out and lots to eat made this a very enjoyable meeting. Meetings like this require lots of preparation and work and so many thanks to all who volunteered to host a meeting.

This is my last letter for the newsletter. Reason being is that by the time we receive another newsletter we will have elected another new president. Elections have been moved from our July meeting to May at the conference to allow more members to participate. I would like to say that it has been an honor and a pleasure working to promote the club and blacksmithing.

*Keep on hammering,
Bob Alexander*

The story behind the letter below is that there is this guy in Browning, Missouri who digs things out of his backyard and sends the stuff he finds to the Smithsonian Institute, labeling them with scientific names, insisting that they are actual archaeological finds. This guy really exists and does this in his spare time! Anyway...here's the actual response from the Smithsonian Institution. Bear this in mind next time you think you are challenged in your duty to respond to a difficult situation in writing.

Smithsonian Institute
207 Pennsylvania Avenue
Washington, DC 20078

Dear Mr. Harper:

Thank you for your latest submission to the Institute, labeled "93211-D, layer 7, next to the clothesline post . . . Hominid skull." We have given this specimen a careful and detailed examination, and regret to inform you we disagree with your theory that it presents conclusive proof of the presence of Early Man in Linn County 2 million years ago. Rather, it appears that what you have found is the head of a Barbie doll, of the variety that one of our staff believes to be "Malibu Barbie." It is evident that you have given a great deal of thought to the analysis of this specimen, and you may be quite certain those of us who are familiar with your prior work in the field were loathe to come to contradiction with your findings.

However, we do feel there are a number of attributes of the specimen which might have tipped you off to its modern origin:

1. The material is molded plastic. Ancient hominid remains are typically fossilized bone.
2. The cranial capacity of the specimen is approximately 9 cubic centimeters, well below the threshold of even the earliest identified proto-homonids.
3. The dentition pattern evident on the skull is more consistent with the common domesticated dog than it is with the ravenous man-eating Pliocene clams you speculate roamed the wetlands during that time.

This latter finding is certainly one of the most intriguing hypotheses you have submitted in your history with this institution, but the evidence seems to weigh rather heavily against it. Without going into too much detail, let us say: A. The specimen looks like the head of a Barbie doll that a dog has chewed on. B. Clams don't have teeth.

It is with feelings tinged with melancholy that we must deny your request to have the specimen carbon-dated. This is partially due to the heavy load our lab must bear in its normal operation, and partly due to carbon-dating's notorious inaccuracy in fossils of recent record. To the best of our knowledge, no Barbie dolls were produced prior to 1956 AD, and carbon-dating is likely to produce wildly inaccurate results. We must also deny your request that we approach the National Science Foundation Phylogeny Depart-

ment with the concept of assigning your specimen the scientific name: *Australopithecus spiff-arino*.

Speaking personally, I, for one, fought tenaciously for the acceptance of your proposed taxonomy, but was ultimately voted down because the species name you selected was hyphenated, and didn't really sound like it might be Latin. However, we gladly accept your generous donation of this fascinating specimen to the museum. While it is undoubtedly not a hominid fossil, it is, nonetheless, yet another riveting example of the great body of work you seem to accumulate so effortlessly. You should know our Director has reserved a special shelf in his office for the display of the specimens you have previously submitted to the Institution, and the entire staff speculates daily on what you will happen upon next in your digs at the site you have discovered in your back yard.

We eagerly anticipate your trip to our nation's capital that you proposed in your last letter, and several of us are pressing the Director to pay for it. We are particularly interested in hearing you expand on your theories surrounding the trans-positating fillifitation of ferrous metal in a structural matrix that makes the excellent juvenile T-rex femur you recently discovered take on the deceptive appearance of a rusty 9-mm Craftsman Crescent wrench.

Yours in Science,
Harvey Rowe
Chief Curator-Antiquities

BAM

MARCH MEETING

by Pat McCarty

Bess and Maurice picked a nice sunny day for their meeting. It was well attended with lots of tail-gaters. Ed Harper started the demos with a flower he designed. It's cut out on a band saw and shaped a bit with a belt sander. Ed also demonstrated what he does most in his shop — look for tools!

The nice flower ended up in the iron in the hat.

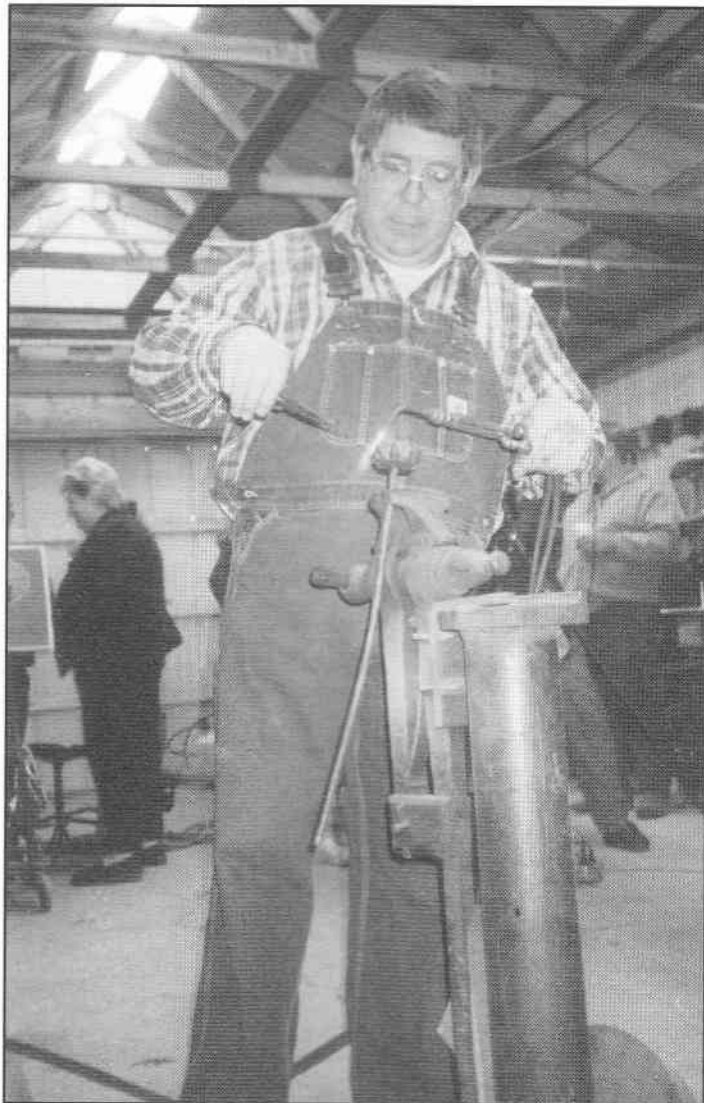
Joe Wilkinson then took over and braided some 3/16 round for a handle, nice job. Walt Hull showed us how to do many different scroll ends and lots of people were making handles for Bess's broom class. Kate Dinneen actually got hers to fly!

Preston Williams brought a neat little air hammer he made and Maurice demoed his metal spinning. Tim Jacot actually got Colin Campbell out of bed early enough to get to the meeting.

Bess put out a real spread for lunch with some excellent cobbler for dessert. Thanks to Bess and Maurice for a real nice day.

Minutes

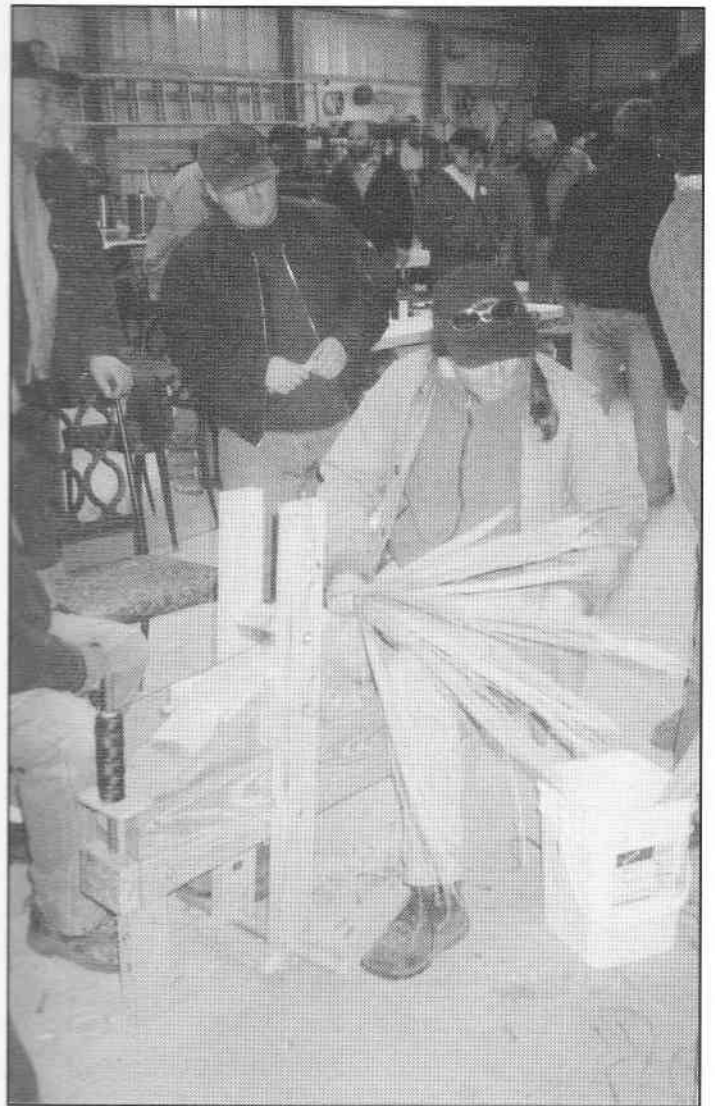
- Thanks to Maurice and Bess for hosting us and for a great lunch with real silverware and multiple desserts.
- Bob Alexander mentioned that Lou Mueller will ramrod the next Faust Park event.



Left: Ed Harper shows how to forge flowers and lose tools. Right: Our host Maurice Ellis goes to work on the spinning lathe. Far right: Kate Dinneen makes her flying broom that really worked!

- Maurice spoke on the publishing of our BAM newsletter. The company that had been publishing it, John Miller Publishing, has gone out of business and owes us some money. More to come, Maurice is on top of the situation and will keep us posted.
- Doug Hendrickson has suggested a donation of \$100 to the Metals Museum which will give us "supporting member" status. A motion was made and approved to do this.
- Bob spoke on the 19th New Salem Illinois Hammer-in, 7 & 8 of April 2001. Register early and get a chicken dinner. Bob also mentioned some upcoming classes at Tom Clark's Ozark School of Blacksmithing.

- Bob spoke on BAM's auction for our 2001 Conference.
- Maurice spoke on the Tom Clark Fellowship Fund to finance member's trips to educational blacksmithing events out of state.
- Bob spoke on a scholarship deal from the John C. Campbell Folk School. Check with Bob if you are interested.
- Bob mentioned that Jeff Bruce won't be able to photograph work at this year's conference, other responsibilities prevent him from attending.
- Bob and Pat McCarty spoke on a request from Lindenwood College on finding a permanent blacksmith for the Daniel Boone home and village.



Check with Bob if interested.

Bob spoke on our BAM officer elections to be held at the conference. Be sure to attend or you might get nominated and elected.

- Andy MacDonald spoke on a possible committee for making conference plans.
- Bruce Herzog spoke on the gas forge workshop and brought a prototype to test (Looks good, Bruce).
- Bob spoke on our BAM conference in May.
- Ed Harper spoke on the "BAM Boutique" fundraiser at the conference. Donations of inexpensive items are needed.

- Don Nichols spoke on the grill and rosette project for our auction. He called for rosettes 2" to 3" in diameter with a 1/4 x 3/4" stub on the back. He showed a sample, it's very handsome.

- Bob spoke on 1-day session of making items for the "BAM Boutique" to be held at Pat McCarty's shop on Sunday, April 29.

- Maurice spoke on BAM's treasury and finances, also showed our shiny new trailer.

- State Fair 9-19 August. BAMers needed to demo.

*Respectfully submitted,
John Murray, secretary*

Trade items were made by Jerry Hoffmann, Ed Harris, Mike Williamson, Kate Dinneen, John Murray, Douglas Morrell, Don Asbee, Joe Wilkinson, Ed Harper, Pat McCarty, Ken Markley, Becky Barringhaus, Randy Carrier, Walt Hull, Don Nichols, Daniel Ehrenberger, Fabian Schilly, George Hoffmann, Ray Carpenter.

Thanks to the following folks for iron in the hat donations: Don Birdsall, John Murray, Maurice Ellis, Randy Barringhaus, Tim Underwood, Peggy Williamson, Walt Hull, Fabian Schilly, Daniel Ehrenberger, Joe Wilkinson, Don Nichols, Bruce Herzog, Tony Martin, and Eddie Linn.



Same Location!

Conference 2001

**Warren County Fairgrounds,
Warrenton, Missouri
May 4-6, 2001**

**Demonstrations Sat. & Sun.
featuring Bob Patrick, Susan
Hutchison and Kevin Cashen**

Friday Evening, May 4, 2001

6:30 - 7:30

Ruben Funk: Metallurgy for Blacksmiths Lecture

8:00-?

Dan Siglar: Forging contest

Saturday, May 5, 2001

8:30-11:30

Bob Patrick: Traditional grill

Susan Hutchison: Making a project, from design to assembly

Kevin Cashen: Multi-bar pattern welded (composite) sword

Family programs

11:30-1:00 pm

Lunch break

1:00-4:30 pm

Bob Patrick: Traditional grill continued

Susan Hutchison: Making a project continued

Kevin Cashen: Sword continued, plus salt bath treating

Family programs

5 pm-6:30 pm

Dinner banquet on the fairgrounds (Ticket must be purchased with pre-registration)

6:30 pm-?

Award presentations, auction with esteemed **Col. David Cornett**

Sunday, May 6, 2001

8:30 am-11:30

Bob Patrick: Traditional grill continued

Susan Hutchison: Making a project continued

Kevin Cashen: Answer questions, demo requested techniques

11:30-?

BAM Members: Tear down and clean up conference site

Additional Conference Activities:

- Large tailgating site free to registered participants
- Free camping on site w/lots of modern toilets (sorry, no showers)
- Sales of various items of interest to blacksmiths

Questions???? Call Bob Alexander at (636) 586-6938 (home) or (636) 586-5350 (shop)

Pre-register by Wednesday, April 25, 2001

You must pre-register to reserve Saturday Evening Dinner and Family Program.

Conference registration will also be available on site at \$40 for weekend/\$30 for Saturday only/\$15 Sunday only. Send pre-registration to: Maurice Ellis, Rt. 1 Box 1442, Belgrade, MO 63622-9709.

Phone: (573) 766-5346; e-mail: mbellis@misn.com

	Cost	Qty	Total
Pre-registration: Fri/Sat/Sun (\$40 at the door)	\$35		
Pre-registration: Saturday only (\$30 at the door)	\$25		
Pre-registration: Sunday only (\$15 at the door)	\$10		
Spouse and Children Registration	FREE		
Saturday Evening Dinner Banquet w/dessert	\$7.50		
Family Program: Brooms for blacksmiths(Sat. am)	Broom classes are full		
Family Program: Brooms for blacksmiths(Sat. pm)	Broom classes are full		
Family Program: Stained glass project (Sat. am)	\$10		
Family Program: Informal jewelrymaking (Sat. pm)	\$5		
Extra Family Program: Cross stitch/Needlepoint (Sat & Sun.)	\$0		

Total Enclosed: _____

Make checks payable to: Blacksmiths Association of Missouri or BAM

Name: _____

Attending Family Names: _____

Address: _____ City _____ State _____ Zip _____

Phone: _____ E-mail: _____

Lodging

Amerihost Inn, Warrenton (636) 456-6000

Appears to be the best quality in Warrenton. It's new and has an indoor pool, sauna and spa. Amerihost has offered BAM a special rate of \$57.10 per room which is \$10 off their regular price. If you choose to reserve a room at the Amerihost, tell them that you are with the Blacksmiths Association of Missouri and ask for the special rate.

Super 8, Warrenton (636) 456-5157 or 1-800-800-8000

This is a new motel but does not have a pool or spa and charges \$57.10 plus tax for a room. Call the toll-free number and get a Super 8 card for a discount & check cashing privileges for cash to spend at the tailgate sales!

Super 7 Inn 7 miles east of Warrenton-Wright City (636) 745-8016

Collier Hospitality Inn (4 miles west of Warrenton) (636) 456-7272

Days Inn, Warrenton (636) 456-4301

Motel 6, Warrenton (636) 456-2522

Camping available free on site (Flush toilets, no showers in honor of Bob Patrick)



ABANA

President's message — March 2001

Dear ABANA Chapters,

Circumstances have forced me to address one of the issues of the relationship between ABANA and its chapters, that of following the policies and rules of ABANA. Much time in the past month has been taken up with addressing anvil shoots by a small minority of ABANA Chapters. Many know that this is a practice banned by ABANA. For those who do not, this letter serves as the official notice of that ban, based on my responsibility as noted in the 2000 ABANA Board Meeting Minutes. This letter will also be posted on the ABANA web site along with a press release and other information regarding anvil shoots. A version of this letter and the press release will also be in the next issue of *The Anvil's Ring*. The official policy as stated in 1997 (and approved in motion 346):

WHEREAS, ABANA officially condemns the practice of "Anvil Shoots" whereby an anvil is caused to fly into the air by use of explosives for the purpose of entertainment.

NOW therefore be it and it is hereby resolved:

No Anvil Shoot or like form of public entertainment by propelling anvils into the air will be scheduled, conducted, allowed, or directly or indirectly advertised, publically announced or noted:

1. At any ABANA sponsored public

or private event;

2. At any event sponsored by any other individuals or organizations who have used ABANA's name in their promotion of the event;

3. At any event, Chapter function, school or demonstration sponsored by other individuals or organizations that borrow, rent, or use ABANA's Mobile Teaching Station at the event of any other ABANA equipment or property.

This prohibition was not enforced in the past by Board action, but now it must be. ABANA would be legally liable if it does not enforce its policy on anvil shoots and harm of any kind occurs, and that liability would cripple and could ruin ABANA. ABANA simply cannot accept the liability for the risk that anvil shooting presents, an activity that it cannot control and might not even be aware of. The unacceptable risk and legal jeopardy that anvil shooting exposes ABANA to in this present day and age forced the Board into prohibiting anvil shoots at any ABANA function, including chapter functions.

One of the Board's legal responsibilities is to enforce all the policies of ABANA. Organizations live or die by following (or not) their by-laws, procedures and policies. When chapters join ABANA they agree to "...abide by the applicable ABANA by-laws and other structured operat-

ing procedures" (Article III-A, Section 2, f). The Board, representing the membership of ABANA, asks the chapters to follow motions of 1997 and 2000 and not hold anvil shoots at chapter events. Any ABANA Chapter that feels anvil shooting is more important than their relationship with ABANA is free to leave our organization and we will wish them well and hold no ill feelings towards them. However, if a chapter holds an anvil shoot at any chapter event, then based on their failure to abide by the ABANA by-laws and the unacceptable risk their actions pose to ABANA, the chapter must be removed from the roll of ABANA Chapters effective the moment the fuse is lit. This is the legal responsibility of the ABANA Board of Directors, and one we do not take lightly. I respectfully but strongly urge all chapters and their membership, both those who are ABANA members and those who are not, to seriously consider the issues that are at stake for ABANA and your chapter, and not hold anvil shoots.

We all have much to do to continue the advancement of blacksmithing, for our membership, present and future, and in the eyes of the public. Let us unite and use our limited time and resources to move blacksmithing forward into the 21st century stronger than ever before. Safe and productive forging.

Doug Learn, president

BAM

Bulletin Board

Fore sale: 5" leg vise, \$100. 3-1/2" bench vise, small anvil on the rear, 40 lbs., \$50. 3 bags BAM coal, \$21. Champion No. 3 blower, hand crank, on a stand, \$200. Buffalo blower (electric) 200 silent 14", \$140. #400 Whirlwind fire pot with tuyere assembly 12x14 heavy duty, no burn out, set into a steel table 24x24 on wheels, has hood and stack, \$300. Gas forge, new, never used, by BAM 1998 complete with regulator, hose, fittings, etc. on steel table with wheels and room for propane tank below, \$350. Cannedy-Otto post drill, hand crank, automatic, has original chuck plus 1/2" Craftsman chuck, excellent condition, mounted on steel post with feet. 5'5", \$130. 5-pound box of (original) Crescent welding compound E-Z Weld from 1980, \$25. Di-Acro Spartan roller Model #4, 24" \$150. DiAcro heavy and useless 30" slip joint brake, cheap at \$20. Emil Bubash, 3151 Lin-Tel Rd., St. Louis, MO 63125. (314) 892-4086.

For sale: Buffalo sander, 10" disk, 6" belt; excellent condition. Asking \$100. Contact Tim or Bert at (618) 893-2216.

Smithin' Magicians — as featured in the Blacksmith's Journal. Includes mild steel tool blank, \$275. Call Bob Woodard at (618) 692-6508.

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. Also hardwood blocks 2-2 1/2" x 12-14" are \$5 each in curly maple, straight maple, English walnut, birch laminated in brown and white and blue and white. Ray Chaffin, (660) 438-6720 or Ray's Welding, RR 3, Box 279, Warsaw, MO 65355.

Heavy duty frying pan blanks: Steel, approximately 9 inch in diameter with 2 inch sides. 12 gauge thickness. Available with or without two 3/16 inch holes for handles. Now tumbled clean. 1-4 \$9 each; 5-9 \$8 each; 10 or more \$7 each. Shipping \$2.50 plus \$.50 for each pan. Contact: Bob Tuftee, 3855 Aspen Hills Dr., Bettendorf, IA 52722.

Custom-built air hammers. 6-pound table top model \$1,300; 20-pound table top model \$1,900; 20-pound floor model \$2,200; 40-pound floor model \$2,600. Some modifications to the basic hammers can be made to your specifications. Also custom metal spinning in copper, brass, pewter, and steel. Contact Maurice L. Ellis, Route 1, Box 1442, Belgrade, MO 63622-9709. Phone: (573) 766-5346. E-mail: mbellis@misn.com.

BAM members, I have a CNC plasma cutting system in my shop in Columbia and will offer my services to BAM members at a 10 percent discount. From art to parts I do it all. Call (573) 474-8749 and ask for William Irvin.

Kayne and Son Custom Hardware, 100 Daniel Ridge Road, Candler, NC 28715. (828) 667-8868 fax (828) 665-8303, email: kaynehdwe@ioa.com, website: www.kayneandson.com. Offering Big Blue 100 ram air hammers, Peddinghaus 2 horn anvils, Offcenter tongs and swages, etc, hammers, tongs, the Blu Crusher rolling mill and Forgemaster gas forges. We ship and accept Visa and Mastercard.

Tom Clark has expanded his line of hand forged Hofi style hammers to include a nice rounding hammer and punches, drifts, tongs etc. He's also importing a new line of air hammer,

the Sayha from Turkey and just got a shipment of punches, shears and gas forges. For more info on the tools and his Ozark School of Blacksmithing contact him at (573) 438-4725.

Power hammer history! *Pounding out the Profits — A Century of American Invention* by Douglas Freund (hard-bound, 317 pages, profusely illustrated) is available for \$32.50 plus \$4.50 shipping and handling through Minus Mountain Machine Works, PO Box 532, Jerome, AZ 86331.

For blacksmithing books contact Norm Larson, 5426 E. Hwy. 246, Lompoc, CA 93436 or call (805) 735-2095. Ask for his catalog.

George Dixon is starting a new blacksmithing publication called "The Traditional Metalsmith". For \$28 you will get four issues of how-to information. Contact him at 1229 Bee Tree Lake Road, Swannanoa, NC 28778.

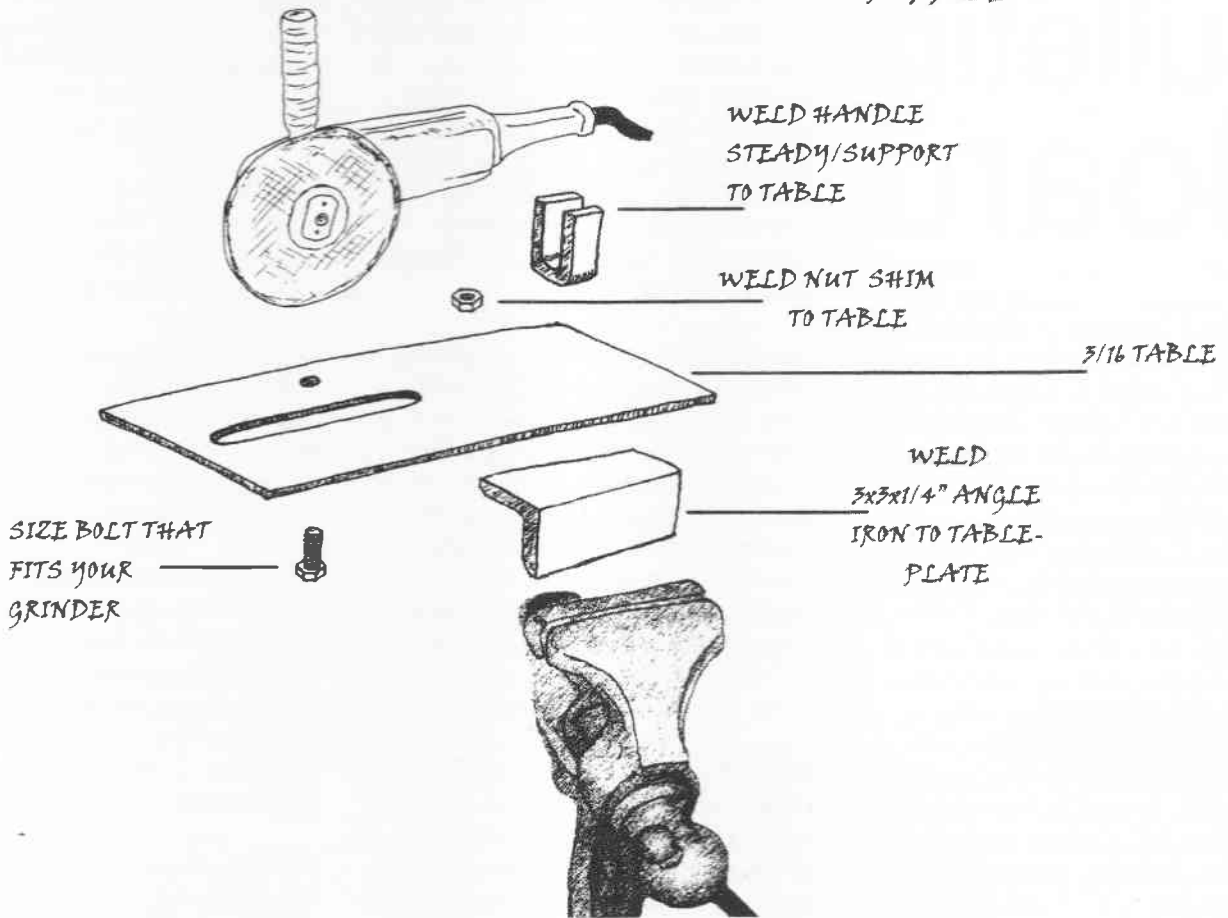
Wanted: the down feed lever (handle) off a Champion post or floor drill press, this is the hand lever that feeds the drill bit into the work, it has a ratchet device where it connects to the drill press. Steve Combs, 636 797-9093, or e-Mail at : bigsmoke@jcn1.com.

Wanted: 25-pound Little Giant, any condition; 3-foot cone mandrel; hand-crank post drill. Allen Ray Cromwell, Arc Forge, PO Box 179, Grand Chain, IL 62941.

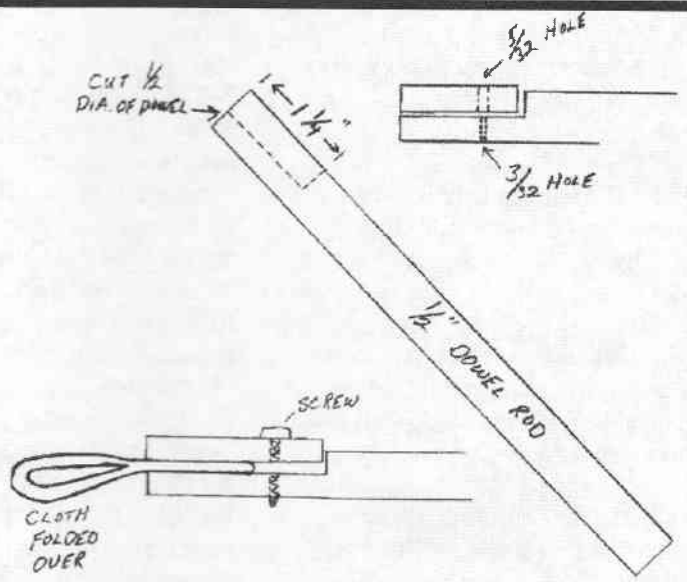
Quick table Disk Grinder

By Fletcher Coddington Northeast Blacksmith Assoc.

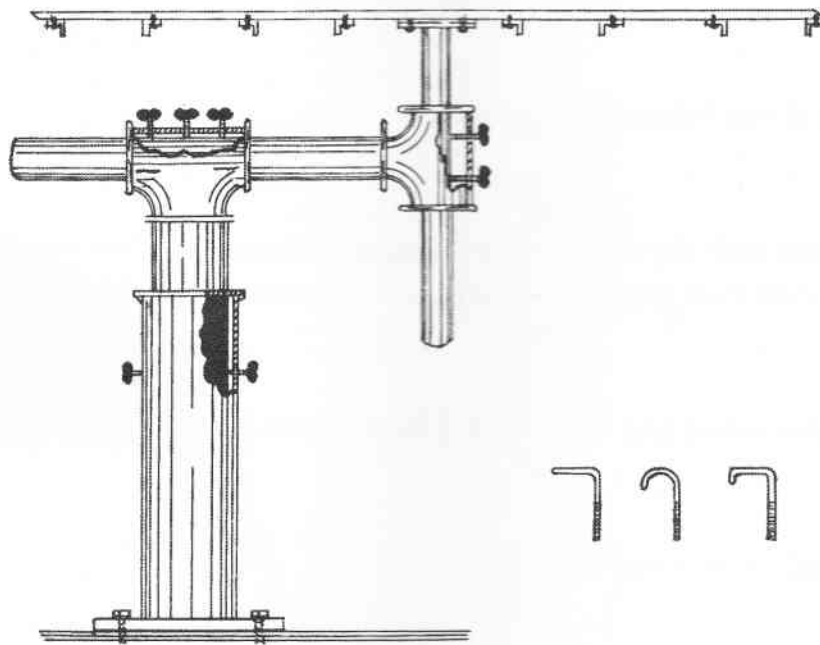
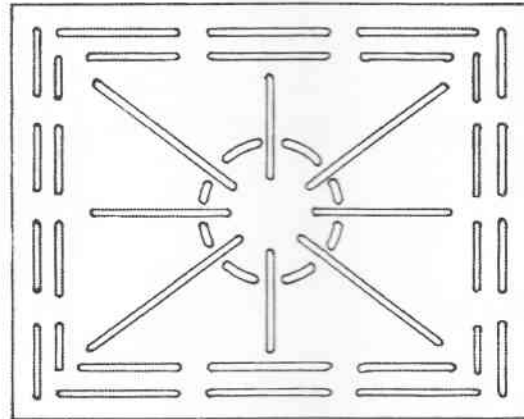
THE BASIC DIMENSIONS ARE WHAT-
EVER FITS YOUR SIZE GRINDER AND
PURPOSES



Ed Harper's "Paint Brush"



Welding Table



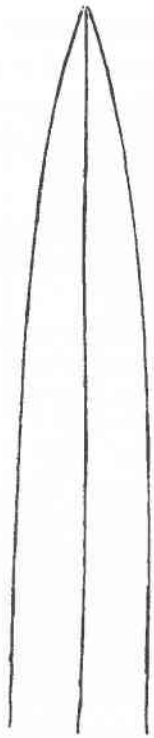
This welding table offers an easy way to clamp pieces to be welded. It was taken from an early issue of *The American Blacksmith*. You can find copies of this publication bound into books at the University of Missouri's Ellis Library.

Pinnacle with Crockets

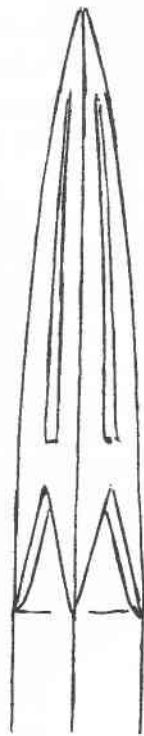
by Tom Latané

Illustrated are the steps I followed to produce two crocketed pinnacles for a Gothic style door knocker finished this past fall.

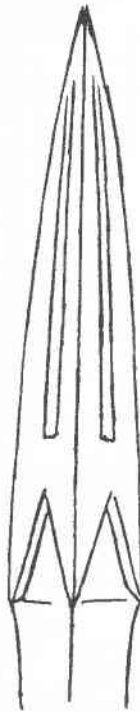
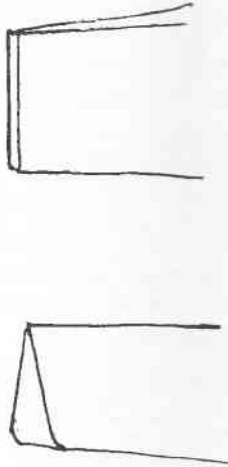
1. I began by tapering the end of the spire.
2. I then marked lines on the four sides with a chisel and dressed them with a flat bottomed narrow fuller. I worked opposite sides and dressed the spread back down to keep things even. The grooves trail off toward the tip. Below the grooves on all sides I depressed what would become the undersides of four gables.
3. The spire was drawn down below the depressions.
4. The transition between each depression and the squared material below was dressed with a chisel and chasing tools. Saw cuts were made in what would be waste material between the crockets.
5. The waste material was sawed and filed away. I filed a finial bud on top.
6. The corners were filed off between the gables.
7. Each stylized crocket was filed by strokes across the faces of the four sides. The gables were dressed above with chisels and chasing tools.



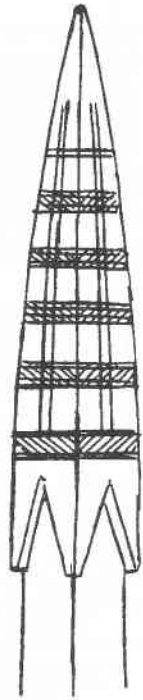
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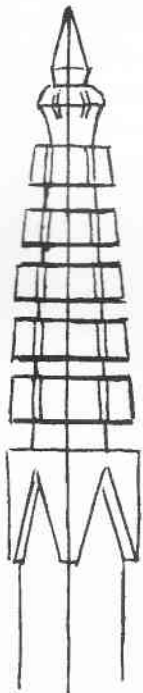
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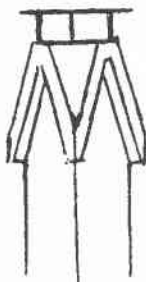
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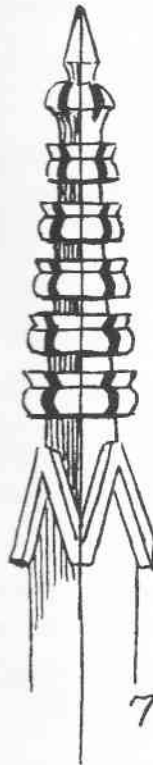
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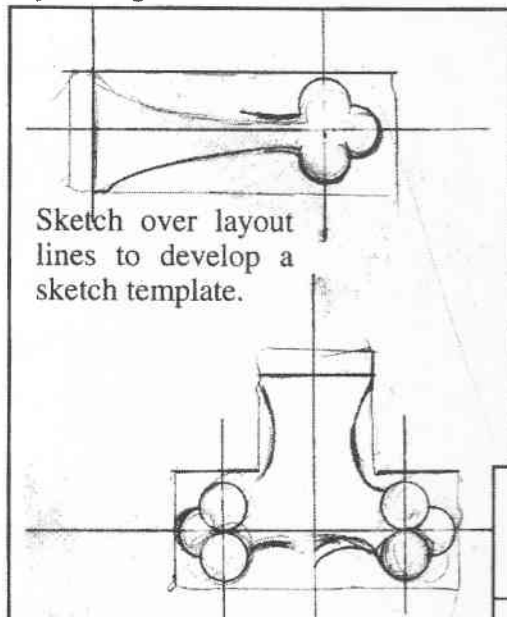
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7

Developing Accurate Patterns

By George Dixon, Metalsmith



Sketch over layout lines to develop a sketch template.

Terms & References

Light table: A drawing aid that backlights a drawing or layout to facilitate tracing.

A simple light table can be made from a sheet of plexiglass, a metal or wood frame and a light fixture.

Build a shallow box to hold the light fixture. Spray the back of the plexiglass flat white (to diffuse the light). Mount the plexiglass over the light, like a lid on the box. Use masking tape to hold layers of paper in place.

Copy the pattern and file the original away. Glue (spray adhesive or rubber cement) the pattern copy onto the metal selected for the hinge and chisel-cut it out. This process works on metal from 20 gauge sheet up through 3/8" plate.

When cutting through a paper pattern that has been glued to metal, it is a good idea transfer the pattern to the metal by making a light, preliminary chisel cut around the pattern. After this initial pass is made with a chisel, and the pattern is completely incised into the surface of the metal, it is safe to cut more aggressively without fear of having the paper pattern move.

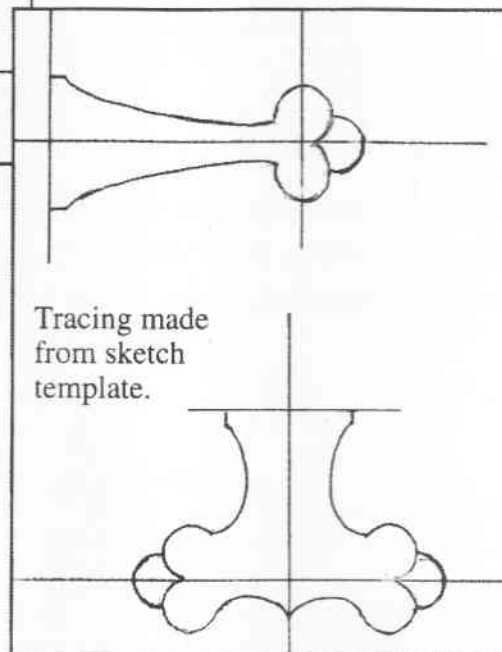
Metal up to 14 gauge is no problem to cut cold. Metal that is 1/8" or thicker is easier to cut hot.

Remember, in the Shop, Wear Safety Glasses.

Although patterns often are part of shop drawings, there are times where the piece is not part of a larger project and a pattern is still needed. The approach has some points in common with design drawing but in the case of pattern drawings, they are always full size.

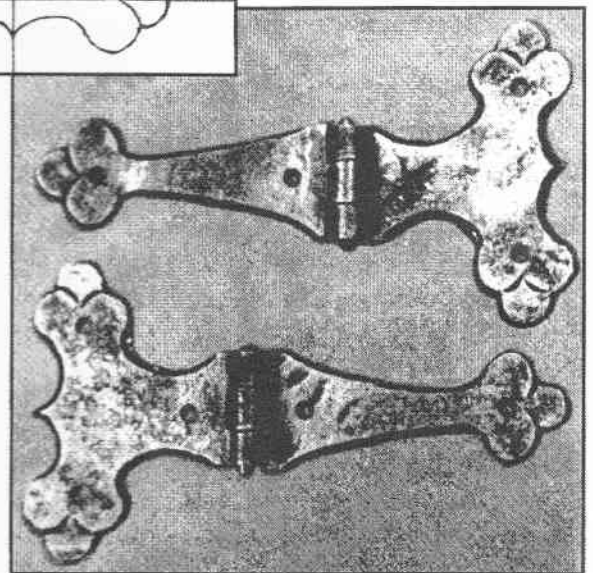
Start with layout lines. These vary in location depending on the shapes involved. Expect to 'move' the layout lines initially (an eraser does that) as you dial them in.

Once the layout lines are in the right places, sketch in the pattern. One half (as divided down the center line) of the sketched pattern almost always looks 'best'. This half is refined to be the template for the next step.



Tracing made from sketch template.

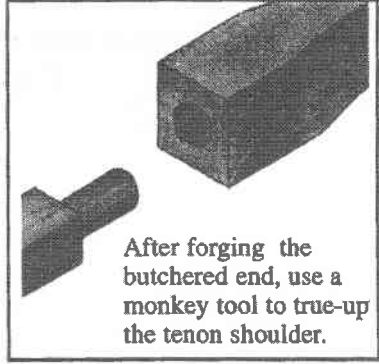
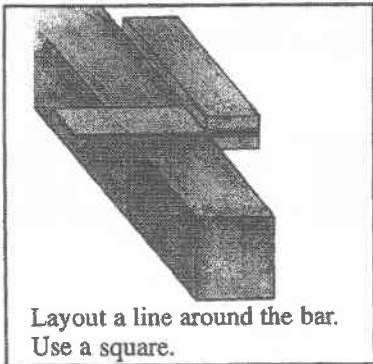
On a separate sheet of paper, layout intersecting lines as shown in the center drawing. On a light table, place the template under that sheet of paper and orient the center line of the template with the center line of the overlaying sheet. Trace the template. Flip the template, reorient it to the overlay and trace the other side. The mirrored tracing is a symmetrical and accurate pattern.



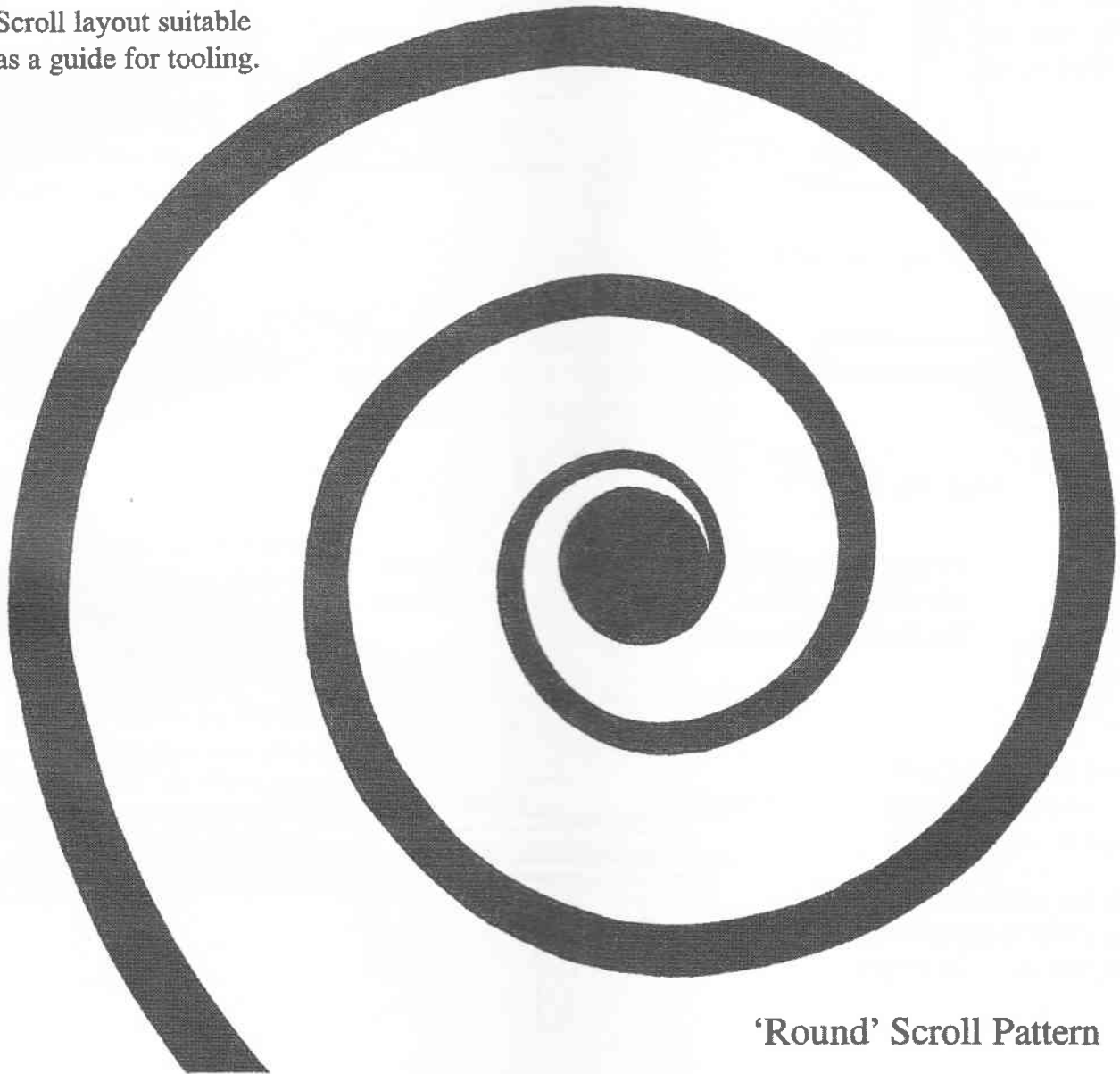
Chisel-cut, 14 gauge hinge. Shown full size.

The Traditional Metalsmith
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Scroll layout suitable as a guide for tooling.

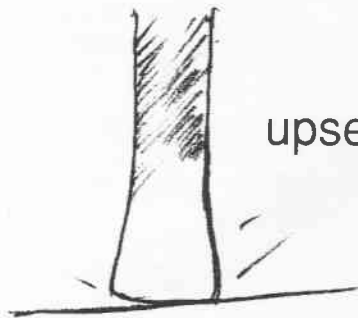


'Round' Scroll Pattern

RAILING POST ATTACHMENT

BY WALT HULL

Sometimes you have access to the underside of a floor. If so, forge a tenon on the base of the post:

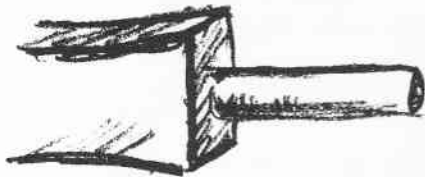


upset first...



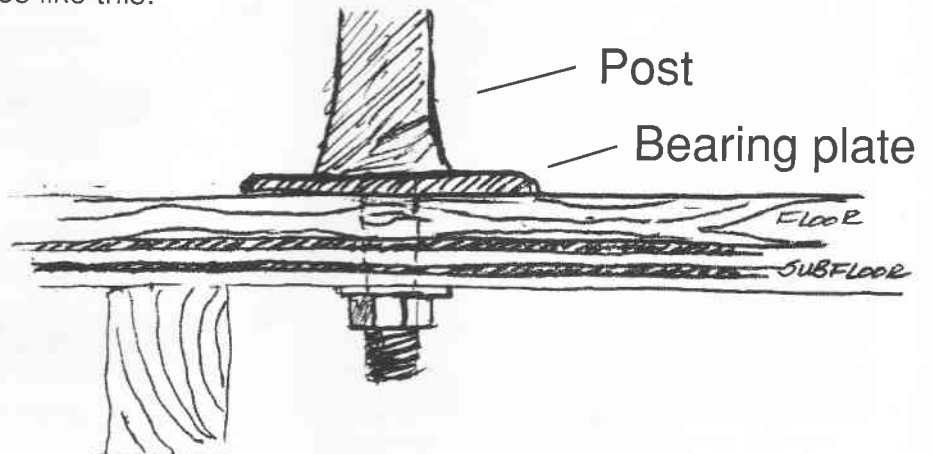
then...

then



I use a 1/2" round tenon on a 1" square bar or round bar, proportionally larger on larger stock.

Forge a decorative bearing plate with a hole to slip over the tenon, and thread the tenon. Then the installation goes like this:

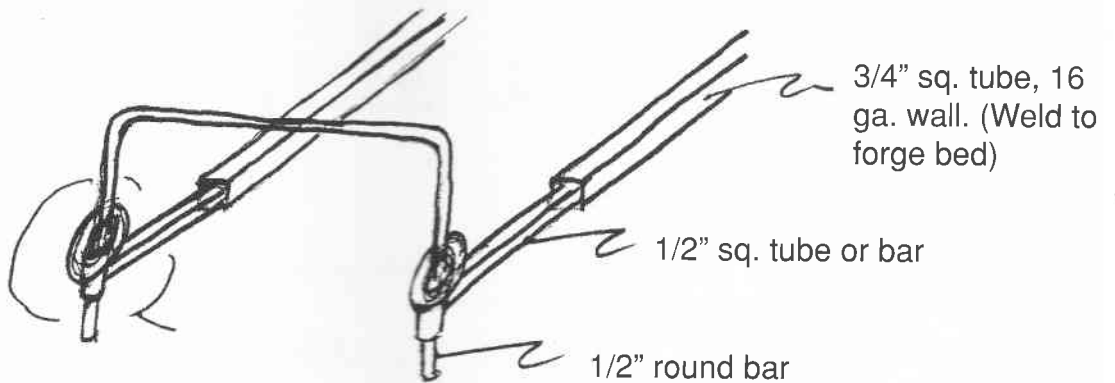


It's not necessary to weld the plate to the post as the bolt will hold it tight.

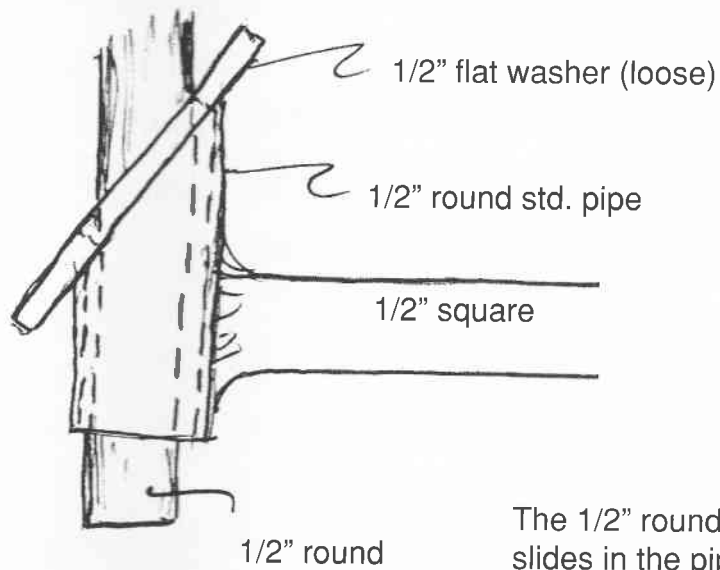
STOCK REST

BY WALT
HULL

I stole this at my very first BAM meeting, at Bob Patrick's old shop in Bethel, and I'm still using it:



The pipe is cut at a sharp angle, at least 45 degrees, allowing the washer to tip and jam the 1/2" round to hold it up. To raise, simply lift the 1/2" round by the center — it will stay where you put it. To lower, tip the washers up. 1/2" square slides in 3/4" square for in/out adjustment.



The 1/2" round bar slides in the pipe for up/down adjustment.



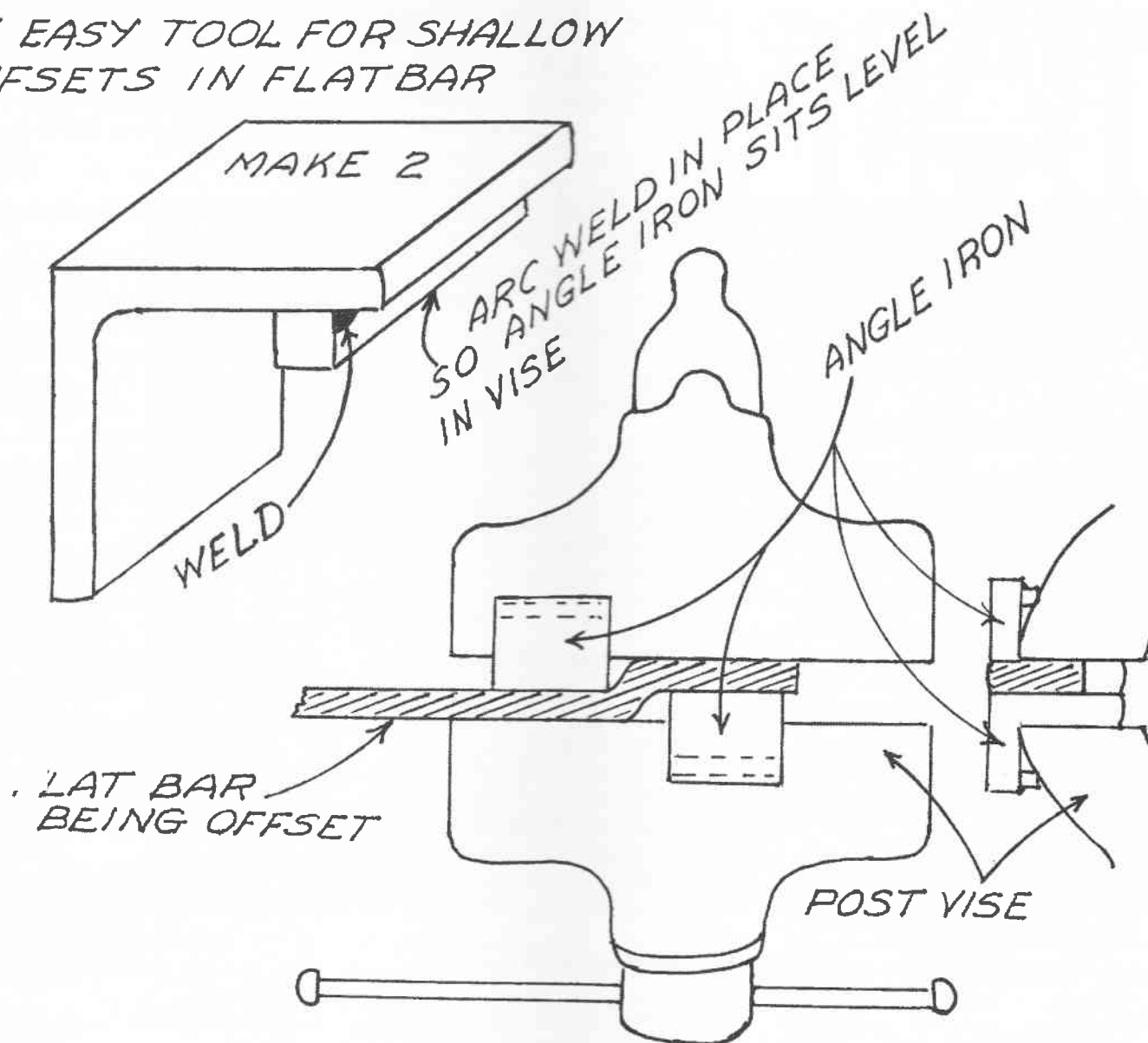
Scholarship time!

As long as we are talking about the Ozark Conference, don't forget to send in your application for one of the BAM Scholarships presented at the conference. Todd Kinnikin is again the chairman of the scholarship committee. To apply send name, address, course you want to take, cost of the course and why you want to take this course to:

Todd Kinnikin,
8356 John McKeever Rd.,
House Springs, MO 63051.

All scholarship winners must write an article on something they learned for the newsletter and demonstrate at a BAM meeting or the Conference in return for their scholarship.

AN EASY TOOL FOR SHALLOW OFFSETS IN FLATBAR



A COUPLE OF SHORT PIECES OF ANGLE IRON, SAY $2 \times 2 \times \frac{1}{4}$ BY $1 \frac{1}{2}$ INCHES LONG MAKE NICE OFFSETS IN $\frac{1}{4}$ " FLAT BAR DO A TEST PIECE FOR CORRECT SPACING USE PLENTY OF HEAT

No SCALE



FOR BEGINNERS OR THOSE WITH FEW TOOLS

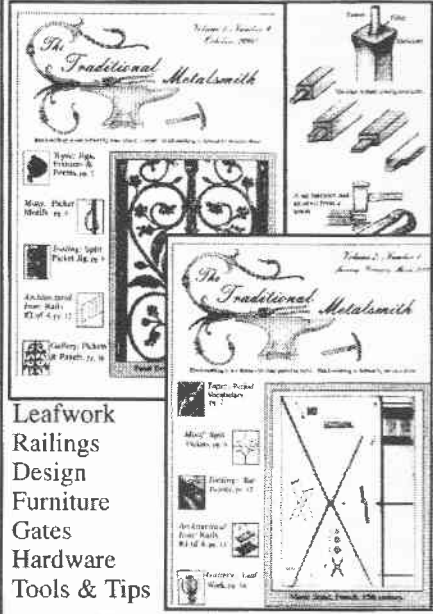
Mac Tipton Y.I.B.A. 2001 Feb.

BAM NEWS

Tom Clark Fellowship Fund

Any BAM member may apply for money up to \$250 to attend a blacksmith-related function outside the state of Missouri. After attending the function, the recipient is requested to give a brief presentation or demonstration related to what he/she learned. To apply send a brief description of what the function is and why you wish to attend it to Maurice Ellis, Route 1, Box 1442, Belgrade, MO 63622 or e-mail mbellis@misn.com.

The Traditional Metalsmith
Blacksmithing: Illustrated & Explained
By George Dixon, former Head Blacksmith
Samuel Yellin Metalworkers



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Congrats to BAM members

Congratulations are in order for two BAM members. Daniel Ehrenberger took his journeyman blade-smith test with V.J. McCrackin in March. His blade passed with flying colors. The cutting tests were no problem since he had tested that at home. But he was concerned about the bending test because the blade he tested at home broke. But with V.J. watching his blade bent just fine. It didn't break, the edge didn't even crack. Now it's off to the blade show to get his work judged.

Also Lorelei Sims won an election for city council, garnering 2281 votes, third highest vote getter out of the 9 candidates. Wonder if she can fix tickets and that sort of thing?

Conference broom classes full

Bess Ellis reports that all of the broommaking classes for the Ozark Conference are full. Looks like we will have a big crop of new broom-makers to tie brooms on our handles. If anyone is registered and won't be able to make it let Bess know so that someone else can step in.

New book on welding

Don Birdsall reports that Lincoln Welding is offering a new anniversary book. It's called New Welding Procedure Handbook 100 Anniversary Edition and is \$15 per copy. Send a check for \$15 each made payable to the: Lincoln Electric Co. and send to 22801 St. Clair Ave. Cleveland, Ohio 44117-1199.

Also for \$2 more ask to be put on their mailing list for the quarterly Stabilizer news letter, a very good bargain for up to date welding information.

Mark your calendar

The dates for this year's Missouri State Fair are Aug. 9-19. BAM will most likely be demonstrating on Aug. 11 (the first Saturday) through the end of the fair. We'll get you the details as the fair draws near but you might want to plan some vacation

around that time to help out. Last year we put on a great show but more support is always welcome. Even if you can't hammer when it's hot and humid, we also need folks to talk to the spectators.

New class for Ozark School

Tom Clark's Ozark School of Blacksmithing has added a new class to its schedule featuring Calgary Stampede 1997 shoeing champ Richard "Iceman" Ellis. He will demonstrate the 8 shoes picked for the Calgary forging contest and dedicate one-half day to forging each shoe. As with all Tom's classes, each student will have their own forge and all necessary tools to learn the techniques.

Cost for the class is \$600, which includes all materials, fuel and two meals. The course runs May 26-29, May 30-June 2, and June 3-6.

Other classes at the school include:

- 5-7 to 5-11 Uri Hofi advanced
- 5-13 to 5-16 Uri Hofi toolmaking
- 6-11 to 6-15 Jerry Darnell traditional lighting
- 8-6 to 8-10 Bill Bastas scrolls & joinery
- 9-24 to 9-28 Uri Hofi basic
- 10-1 to 10-5 Uri Hofi basic
- 10-8 to 10-12 Uri Hofi advanced
- 12-17 to 12-21 Bob Patrick forge welding
- 12-26 to 12-30 Bill Bastas scrolls & joinery

Other classes being considered are a power hammer class with Phil Cox. Call Tom if you are interested in this one or have other ideas. For more information call (573) 438-4725.

Festival needs a smith

The Missouri Renaissance Faire is looking for more participants, especially blacksmiths, for its 2001 event to be held June 2-3 and June 9-10 in Mansfield, Missouri. If you want to stay with this event in future years they do allow permanent structures to be built. All participants are required to be in full period costumes at all times.

For more info call (417) 924-2222 or e-mail to mansfieldhouse@yahoo.com.

Next meeting: May 19, Sedalia

Don Nichols is the host for BAM's May meeting. This is our first visit to Don's shop and it should be a good one. Don was making plans for the meeting way back in 2000 so he'll be prepared. Here's what to expect:

Don plans to demonstrate forge welding as his payback for the BAM scholarship to the Bob Patrick Foge Welding Class at the Ozark School of Blacksmithing.

Kate Dinneen has also agreed to show some of what she has learned in her world travels. Don invites spouses to come early and see not only the demos but also what he has growing in the flower garden. A lot of things won't be blooming yet but the garden will have a good start and you can see the many whimsical things he has "planted" there.

The trade item is a long fork like

one you would use for roasting hot dogs or marshmallows around the campfire. Everyone who brings a fork will get a small prize.

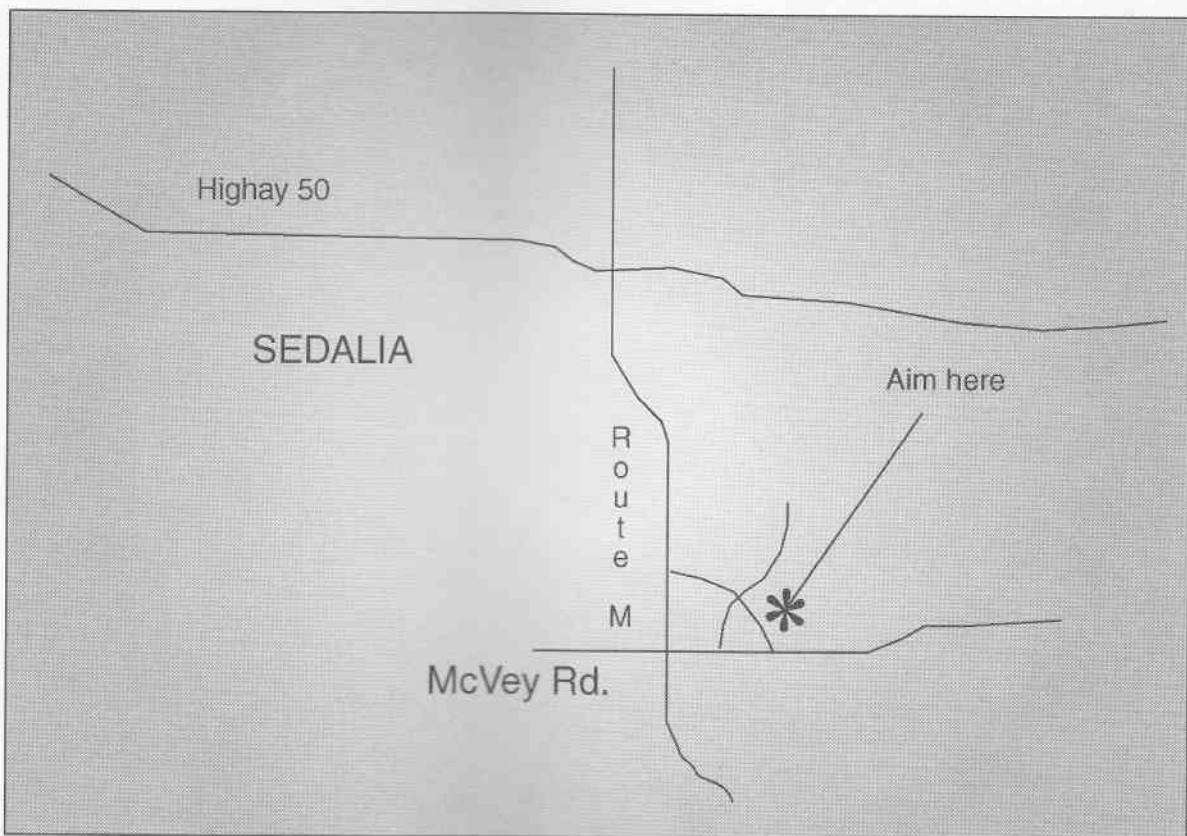
Lunch will be served. Don is planning a "spud lunch" featuring large baked potatoes and lots of yummy toppings and other goodies. Start praying now for a warm, sunny day.

Directions: Take Hwy 50 to the east

edge of Sedalia. Take state road M south 1-1/2 miles to McVey Rd. Turn left on McVey and go two blocks. Turn left on Suburban Lane and head for the second house on the right.

If you get lost call Don at (660) 826-9252. Don't forget to bring something for Iron in the Hat.

See you in Sedalia on May 19.



2001 Meeting schedule

May Meeting

Don Nichols
Sedalia, MO
May 19

Trade item: Long fork

July Meeting

Doug Hendrickson
Lesterville, MO
July 21

Trade item: Dipper

September Meeting

Bob Ehrenberg
Shelbyville, MO
Sept. 29

Trade item: Gig or spear pt.



The statue of "Labor," also known as "The Reading Blacksmith," is one element in a monument memorializing Pittsburgh industrialist Col. James Anderson. It is the work of Daniel Chester French (1850-1931), sculptor of the statue of Abraham Lincoln enshrined in the Lincoln Memorial.

The Reading Blacksmith is heroic, romantic, mythic. The power and strength evident in his body are an unselfconscious power and strength. He is an image of Pittsburgh, the great industrial city. But, more profoundly, he is an embodiment of a spirit and a confidence most nobly American.

The Reading Blacksmith is not to be taken literally; and yet, he is. He is less myth than possibility — clearly visible on street corners, under the hoods of automobiles, on baseball fields, in bars, in the army, on construction sites, in prisons everywhere.

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