

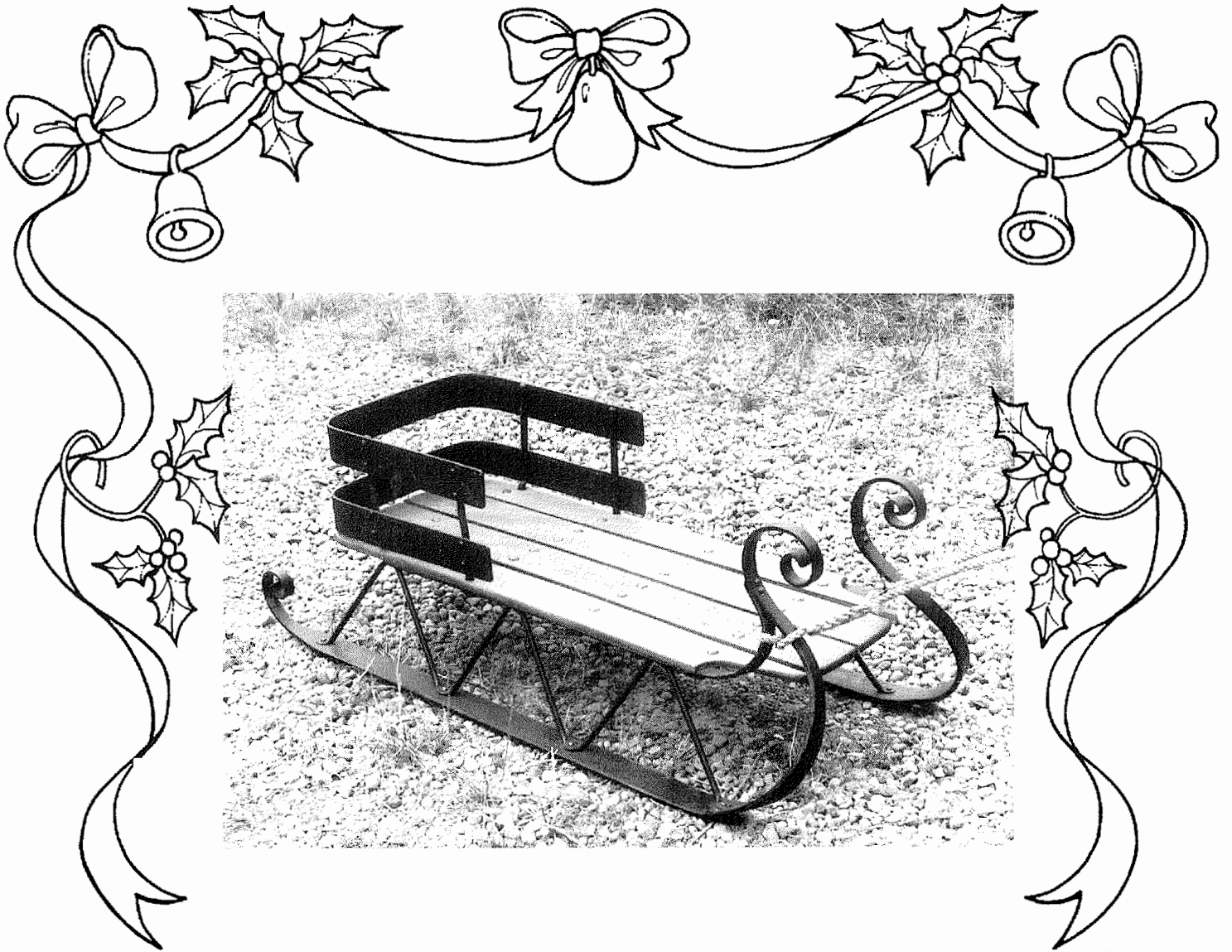
CHAPTER OF ABANA

# Hot Iron News

VOICE OF THE NORTHWEST BLACKSMITHS ASSOCIATION

Winter 1995

\$8.00 US



*Season's Greetings  
from the N.W.B.A.*



# From the President

Greetings From Your New President:

I have a good friend who believes his most important job is "keeping me humble" and he works very hard at his job!

It is with great "humbleness" I look back on the four years that Grant Sarver served as N.W.B.A. President. Not only did the organization prosper and grow . . . but words like "unity" and "harmony" crop up when describing his service.

As for his unflagging humor. . . who would dare to "top" the "depth" he used to share his matching polka dot ensemble at Winthrop? Thanks Grant for a job well done!

Thank you is also in order to D.J. and Carol Stull, our hosts; and to Japh Howard and Gary Eagle, demonstrators; and everybody who contributed to a great Fall Conference at Winthrop. We had 165+ at the Saturday night dinner/auction.

Education and information sharing remains a primary function of N.W.B.A.. In keeping with that goal, the Board is instituting a book/video library project (see separate article for details). Final format and check out information coming soon. Please contact any Board member on suggestions or donations.

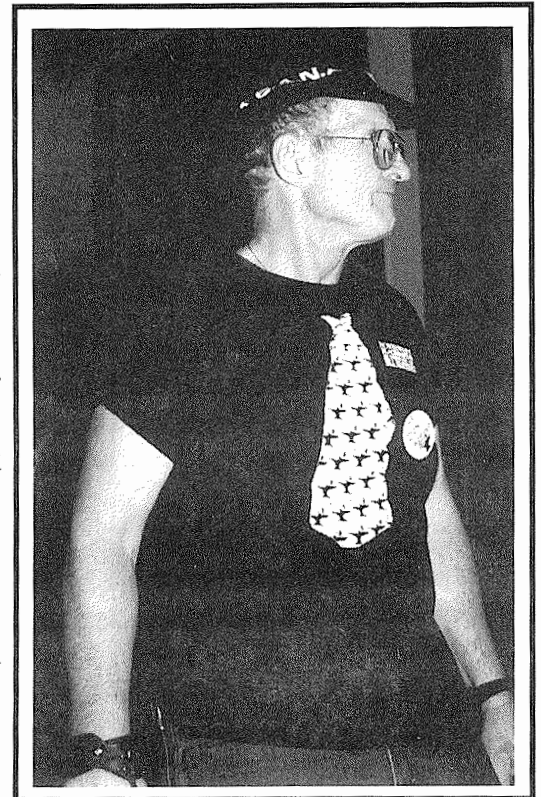
The N.W.B.A. scholarship program is being modified into a "grant" program. This widens the applications for scholarships for all members. Reimbursement to N.W.B.A. being an article for the Hot Iron News publication and some form of demonstration of idea(s) gained from the scholarship.

The Board will meet at the President's address, 9:30 a.m. on January 13, 1996 (snow/ice precluded). Open shop after business/lunch.

Contact any of the seven (By-Law change approval would change to nine) Board members if you have a suggestions to be considered. Board meetings are always open!

Memorable Holiday Wishes.

Don Kemper





## NWBA Library

Video tapes and books will be available to current N.W.B.A. members in good standing. Good standing means paid up dues and no outstanding library infractions.

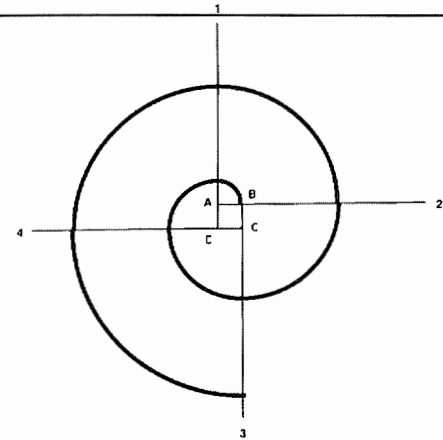
Books may be borrowed for 30 days, video tapes for 15 days. Allowance will be made for mailing time. Please note the "mail by date" on the label as you receive the item. The rental fee for a book is \$4.00 and video tape rental is also \$4.00. This fee includes postage and handling.

Don Kemper is going to be the first librarian and is in the process of acquiring books and video tapes. A list of available tapes and books will come out in the next Hot Iron News.

The purpose of the N.W.B.A. is largely educational and by making these available we hope to better serve you, the membership.

This library plan is patterned after the Rocky Mountain Smiths. Any ideas as to book and video subjects, contact a board member.

Donations of materials would be appreciated. Please send them to Don Kemper, 20100 NW 61st Ave, Ridgefield, WA, 98642. Phone 360-887-3903.



### *How to draw a scroll*

The scroll is most easily made by first making a square, A,B,C,D. Extend the sides to 1,2,3,4. Using the corners of the square as centers, draw 90 degree arcs. The first radius is equal to one side of the square. The radius of each successive arc is the distance from the next corner of the square to the terminating point of the previous arc. You can vary the size of the scroll by changing the dimensions of the square.

Start by putting the center of your compass at corner A. Using A-B as your radius, draw a 90 degree arc from B to line 1. Move your compass to corner D. Enlarge the radius to the terminating point of your first arc from that point to line 4. Continue drawing your scroll until you have the size scroll you need. Each time you draw an arc, enlarge it by the length of one side of the square. This will give you a well proportioned scroll that is pleasing to the eye.

—Dick Fackler, Northwest  
Blacksmiths Association



# TIDBITS

## Welcome New Members

John Stender: Mt. Vernon, WA  
 Kenneth Sallitt: Vancouver, B.C.  
 Norman McCullough: Coupeville, WA  
 Thomas Lowe: Olympia, WA  
 Michael Perry: Renton, WA  
 Phil Garfoot, Stehekin, WA  
 Adrienne Taggart, Seattle, WA  
 Pete Sweet, Bellingham, WA  
 Paul Jensen, Stehekin, WA  
 James Everly, Chimacum, WA  
 Dylan Andersen, Seattle, WA  
 John Snyman, Oroville, WA  
 Jay Arrera, Eugene, OR  
 Chris Mc Fee, Langley, WA  
 Mike Dominick, St. Ignatus, MT  
 Patrich Six, Puyallup, WA  
 Erich Prinz, Bellingham, WA  
 Pierre Quinton, Beverly Hills, CA  
 Scott Hamilton, Centralia, WA  
 Maynard Gueidenhaar, Eagle Bay, BC  
 Lyle Cole, Bend, OR  
 Randy Miller, Lynden, WA  
 Smedley Soapstone, Gamble Bay, WA  
 Don Frick, Bellingham, WA  
 Wallace Fiore, Seattle WA  
 Richard Worth, Poulsbo, WA  
 Lee Dorsey, Anacortes, WA  
 Art Neumarkel, Anacortes, WA

## N.W.B.A. Treasurers Report

### CASH FLOW REPORT 1/ 1/95 Through 11/24/95

Category Description	1/ 1/95- 11/24/95
<b>INFLOWS</b>	
95FALL	8,294.50
CONFERENCE I95	594.00
DUES	1,596.00
WORKSHOP	-15.17
Inflows - Other	402.50
<b>TOTAL INFLOWS</b>	<b>10,871.83</b>
<b>OUTFLOWS</b>	
EDITOR EXPENSES	9,985.85
EXPENSE	1,025.90
REFUND	15.00
SPRING95	-3,451.94
TREASURER EXPENSE	14.62
Outflows - Other	349.00
<b>TOTAL OUTFLOWS</b>	<b>7,938.43</b>
<b>OVERALL TOTAL</b>	<b>2,933.40</b>

Checking Balance \$15,575.63

## Rocks Rocks

East of Winthrop, by the roadside, rocks piled atop each other, maybe three to six rocks in each pile for mile after mile. I asked Carol Stull about the phenomenon and she tells of a local artist that creates the works of art while out walking. There are stories of copycat rock sculpture in other Eastern Washington areas now.

Editors yearly fee is \$2500, other editor expenses are printing, postal, phone and office supplies.

Both treasurers and editors books are reviewed by the board at conference board meetings. Board meetings are open to current N.W.B.A. members.



## Letters to the Editor

A few words about the NWSWB workshop, August 14 - 18, at Old Cedar Forge, Allyn, WA, taught by Jerry Culberson and Russell Jaqua.

First, my personal experience:

Monday: Day 1 . . . my hand and arm felt so miserable, I seriously considered rescheduling my work day the following Monday, like canceling it.

Tuesday: I had to lift my morning coffee cup with TWO hands. I did some HEAVY taping of my hand.

Wednesday: My hand and arm started to work better. The stroke got steadier and stronger.

Thursday: Some of the blacksmith vocabulary started to stick in my brain, my hand and arm were feeling good, my eye better, the blows truer - tho I still managed to ding the head of Jerry's favorite hot cut hammer (and don't think I didn't hear about it!)

Friday: Just starting to hit stride.

The very least we got out of the workshop is that we will look at metalwork with a new eye, an eye more knowledgeable, more critical, more appreciative.

And the most is that we come away with the basic information which not only opens a whole new world, but allows us to function in that new world - how to make and use a forge, how to fabricate, appraise, and use tools. We learned the rudiments of some many techniques.

The extras were fine, hearty lunches, great, animated Jerry stories, good camaraderie, the pleasure of Russ' quiet direction and the absurdity of his head gear, the delight of dogs and cats in the shop, seeing the art of the craft, and the brotherhood of blacksmiths.

The sad part -- that it came to an end.

submitted by Sue Burnett

[Novice Workshop sponsored by the N.W. School of Wooden Boat Building at Port Townsend.]

The novice workshop held at the home of Dave, Rebecca, and Ellis Thompson was one for the memories for this first timer. Dave's house and shop sit nicely secluded from the close by city. The shop was an absolute joy to work in; well organized and stock full of tools and projects that were enjoyed fully by all the participants.

Friday started with introductions. Dave Thompson and Joe Elliot were the demonstrators, or more accurately, teachers. The participants spent a little time introducing each other and telling what they hoped to gain from the workshop. We quickly moved on to projects from there. This group definitely wanted to hit some steel. Joe and Dave kept it pretty light the first night, mostly spending their time with an endless amount of great questions, and quite a bit of free forging.

Saturday wakeup was pretty casual, Dave spent the morning going over the basics behind blacksmithing, and answering several questions. This group had a desire to wring as much information out of anyone who had it. Lunch is what followed, or maybe not, Rebecca Thompson did an outstanding job of keeping the troops fed along with satisfying our addictions (coffee, doughnuts). So, understandably, lunch, along with all the other meals, stick out in our memories. The remaining of the day was spent on tools, and tool steels. Each participant learned the realities of the tool steel as they hammered away at it only to barely move the material. A lot of safe and practical knowledge was gained at the expense of some tired arms. Saturday night brought a night on the town for a little eats and drinks and, for dessert, a stop by Wayne Goddard's house. Minutes turned to hours as we checked out how the whole process fits in Wayne's garage and house. Thanks for the tour Wayne.

Sunday came all to fast and we found ourselves a little disappointed that we were running out of time. Dave and Joe did a great job of rallying us by a great discussion period and then amazed us with an excellent round of demonstrating. Time to clean up followed. After the cleanup, we took pictures, and talked to all our new friends about the workshop and blacksmithing in general.

Thanks to all who made this possible, including, the Thompson's for their great hospitality and the great spot to do such a workshop; Joe and Dave for their time, patience and knowledge; Matt and Eric who helped all weekend; and everybody else who participated.

As the receiver of an N.W.B.A. scholarship for this unique workshop, I was a little disheartened to find I was the only applicant. Hopefully others will apply to take advantage of this service the organization is offering to help us further this craft which so holds our interests.

Rick Russel



**NWBA BOARD MEETING  
October 13, 1995  
Winthrop, WA**

**Meeting called to order at 4:20 PM by President Grant Sarver.**

**Present: Grant, Kent, Dennis, D.J., Gene, Terry Willis, & Don.**

Minutes of April 21, 1995 were approved.

It was decided that the January & July board meetings would be held on January 13th at Don & Diane Kemper's house and July 13th at a yet undetermined place.

**Spring Conference will be held in St. Helens, Oregon, at the fair grounds on April 12, 13, & 14** if it is still available. There was a mix up and the contract was not returned. Jerry Henderson is going to check with the fair board and get back to us. Gene will be in charge of demonstrations. It was also discussed that some time in the future we should consider having a joint conference with the Northern Rockies Blacksmith Association. The N.W.B.A. will officially sanction and help sponsor the N.R.B.A. Spring Conference. That way N.W.B.A. members would know about the conference and be able to attend without having to join the N.R.B.A. Any proceeds received from auction items donated by N.W.B.A., will go to the N.R.B.A.

The winter Hot Iron News will have the ballot for the By-Law revision and will need to be returned to the secretary by January 10th. If the By-Law revision passes, the two new board members will be installed at the January 13th meeting.

There are two workshops coming up. Don Kemper is doing a joint workshop with Japh Howard November 3, 4, & 5, and is full. On November 11th, Jim Hatmaker is doing a power hammer workshop with Grant Sarver.

Both are N.W.B.A. sanctioned. We are looking for a new workshop coordinator. Joe is putting together a workbook and guidelines so that whoever is the new workshop coordinator knows what to do. Gene will be the interim coordinator until the January 13th meeting.

It was decided that if the treasury has over \$7500 in it after fall conference, the Hot Iron News, once a year, would be a double issue and the editors would receive double payment for it. Advertising in the Hot Iron News will be free up to one full page for the first time, \$50 a page after that. Business card size ads will be free. The editor needs to be notified for each issue. Any person who's dues become delinquent will receive one grace period issue of Hot Iron News and they will receive a postcard reminder. An updated membership roster is in the works and will be ready soon. Unpaid members will be kept in data base for a period of two years after expiration date.

The treasurer will start giving the board a financial report at each board meeting. It was decided that D.J.'s conference dues will be refunded. Conference fees are being increased by \$5 with a \$5 discount if you bring an auction item and \$5 discount if you bring food for the pot luck dinner. It was discussed that we establish a building fund. It will be discussed further at the next board meeting.

Gene and Joe have been working on a new membership packet. It is approximately 40 pages and will be available for board review soon.

Outgoing board members, especially officers, NEED to get a job description to Kent (my pet peeve and I won't leave you alone until Kent gets it. DP).



**NWBA BOARD MINUTES (continued)**

The Scholarship Program was changed to a Grant Program and the application is to be updated. (There will be a regular blurb in the Hot Iron News to advertise the program)

Kent has found out that ABANA and some other chapters are on the Internet and wants to put the N.W.B.A. on. It was approved. Kent and Gene are going to get together and take care of it. Once we are on the Internet, communicating with ABANA, Kent will take care of the job of Chapter Liaison.

Our insurance policy was reviewed and approved. We have received no billing yet.

Don has been taking care of the Clifton Ralph tapes and says it is going great and would like to try a video and book library. Don is going to take care of the librarian job and if the treasury has in excess of \$7500 after Fall Conference, up to 10% would be available for the library.

The board received correspondence from Paul Casey, in Seattle, requesting help with a blacksmith program for fourth grade students. Grant took charge of this project.

Meeting adjourned at 5:55 PM.

Called back to order at 12:20 PM Saturday.

The results of the elections are in and they are as follows: Kent was reelected, Terry Willis and Berkley Tack were elected and Matthew Tilton and Ralph Hind are to be in-stated as officers if the By-Laws update is passed in January. There was a tie vote between Ralph Hind and Tom Richards. The winner was determined by a toss of a coin and Ralph won. The new officers are Don Kemper-President, D.J. Stull-Vice President, Kent Rudisill-Treasurer, and Dennis Prince-Secretary.

The available back issues of the Hot Iron News will be advertised in the Hot Iron News.

The Fall Conference in 1996 will be held at Russell Jaqua's shop in Port Townsend, WA.

We will be looking into having one day novice workshops at various locations. That way people who can't take the time off for a three day workshop could attend these one day workshops.

Meeting adjourned at 1:10 PM.

Respectfully submitted Your Scribe,  
Dennis Prince



Always gotta be one out of step.



## THE WINTHROP "KITCHEN WITCHES" AT FALL CONFERENCE

by Babe Brandon

The N.W.B.A. kitchen witches gain in number at each new conference. We even gained two "witches" this time, Glen Kerr and Jerry Henderson. The "witches" helped wash and put away the dishes, glasses, and silverware.

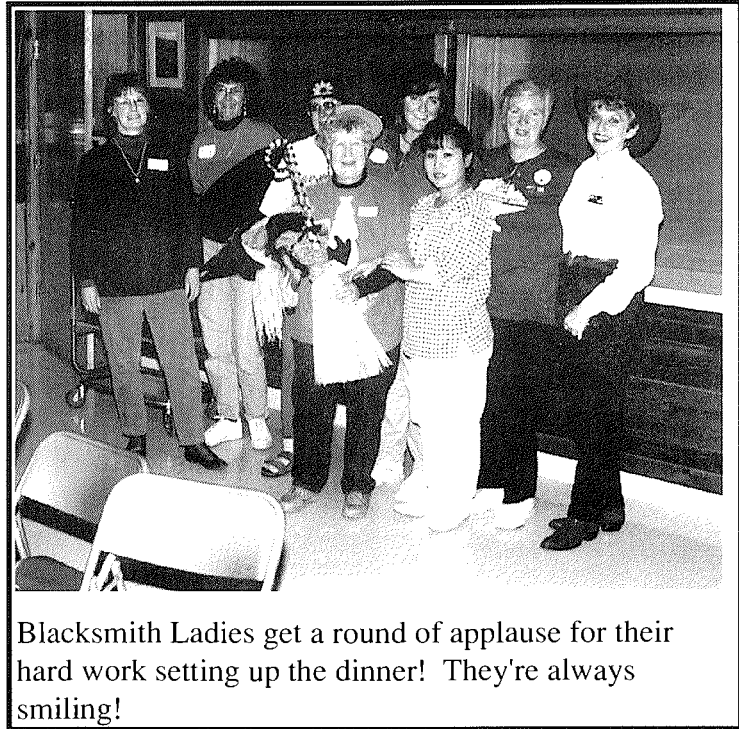
All the ladies that came, new and old, always chip in to help. They help as needed with registration, selling N.W.B.A. items, archives, gallery and kitchen duty.

Carol and D.J. Stull's town of Winthrop showed all of us a great time. I hope we will be able to come back again. The facilities at the Red Barn were something to behold, real dishes, glasses, and silverware. WOW!! Ovens, coolers, freezers and a dishwasher. Now that's right "up town."

Fear not men, we might grumble sometime, but we love the getting together, sharing our bits of news from the last time we met. Then, of course, our annual trip to the grocery store to choose the different items for the Saturday night "bash". That trip I'd never miss, its like a trip to Disneyland.

Thanks to Ina Culberson, Phyllis Tice, Dianne Kemper, Vernell Henderson, Jerry Henderson, Glen Kerr, Vivian Urban, Brian Urban, Lisa Urban, Hwa Sun, Pat Cane, Carol Stull, Mary Krenowicz, Beth Heia, Kent Rudisell, Babe Brandon, Lelicia Kagele and all the men and gals that helped put up and take down the tables, and all the other thankless jobs. If I've left out anyone, please forgive, I'm just getting old.

P.S. Ladies and gentlemen Blacksmiths, remember your favorite recipes, antidotes, helpful hints and short stories about your "favorite N.W.B.A. blacksmith". Send all recipes, etc. to Vernell Henderson, 36050 Pittsburg Rd. #2, St. Helens, Or. 97051 or Ina Culberson, Old Cedar Forge, 220 East Cronquist, Allyn, WA 98524, or bring them to the next conference at St. Helens, OR. Gals you can also bring your handiwork and put in the auction, it's fun to see your craft work also.



Blacksmith Ladies get a round of applause for their hard work setting up the dinner! They're always smiling!





# N.W.B.A. Workshop Grant Application

Name _____	Signature: _____
Business Name: _____	Date: _____
Address: _____	City: _____ State: _____ Zip: _____
Phone: (Hm) _____	(Wk) _____

What workshop are you applying for? \_\_\_\_\_

Date of Workshop: \_\_\_\_\_

Why do you want to attend this workshop? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

1. How long have you been blacksmithing? \_\_\_\_\_

2. How long have you been a N.W.B.A. member? \_\_\_\_\_

3. Do you have a blacksmithing speciality? \_\_\_\_\_

4. What are your goals for blacksmithing? \_\_\_\_\_

\_\_\_\_\_

5. How soon after the workshop will you send an article to the Hot Iron News editor? Date: \_\_\_\_\_

6. When could you give a demonstration (this is optional) of something you learned at the workshop? (Such as N.W.B.A. conference - - midnight madness - - a workshop or other) \_\_\_\_\_

In accepting this grant you agree to write an article for the Hot Iron News, and, if interested, give a demonstration on something you learned at the workshop.

**Return this form to the N.W.B.A. Secretary, Dennis Prince,  
695 S.W. Bear Dr., Madras, OR 97741, (503) 475-6505.**

**North West Blacksmith Association**



# Anvils Anvils Anvils

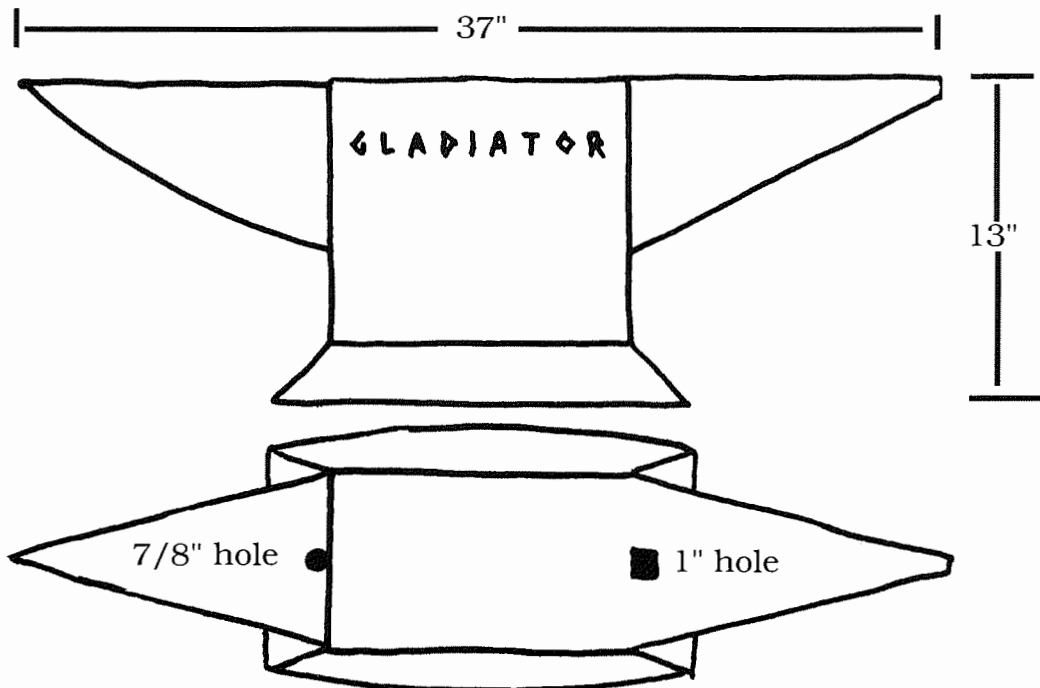
Matthew Tilton and Russ Jaqua brought up the subject of casting anvils some time back. Well, Matthew, Russ, Dennis Proska and Jeff Hammond are cooking up a deal to cast double horn anvils.

Cast alloy steel 8640 or 8740  
Small 100 KG-225#  
Big 200KG-450#

If interested, fill this out and send to Russ Jaqua, 1119 Blaine St, Pt Townsend WA, 98368

Name \_\_\_\_\_  
Address \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_

Question/Comments \_\_\_\_\_



Big Gladiator, Height 13". Length 37"  
Small Gladiator, Height 9" Length 30.5"  
(Dimensions and weights are approximate.)



A Guide for Dating Your Anvil by Patent Numbers

**BLACKSMITH MUSEUM**

Largest Anvil Collection in Missouri

**David Baker**

RR #1 Box 99, Wentworth, MO 64873

**417/548-3915**

*(After each year is the first patent number issued in that year.)*

1859	22,477	1893	488,976	1927	1,612,790
1860	26,642	1894	511,744	1928	1,654,521
1861	31,005	1895	531,619	1929	1,696,897
1862	34,045	1896	552,502	1930	1,742,181
1863	37,266	1897	574,369	1931	1,787,424
1864	41,047	1898	596,467	1932	1,839,190
1865	45,685	1899	616,871	1933	1,892,663
1866	51,784	1900	640,167	1934	1,941,449
1867	60,685	1901	664,827	1935	1,985,878
1868	72,959	1902	690,385	1936	2,026,516
1869	85,503	1903	717,521	1937	2,066,309
1870	98,460	1904	748,567	1938	2,104,004
1871	110,617	1905	778,834	1939	2,142,080
1872	122,304	1906	808,618	1940	2,185,170
1873	134,504	1907	839,799	1941	2,227,418
1874	146,120	1908	875,679	1942	2,268,540
1875	158,350	1909	908,436	1943	2,307,007
1876	171,641	1910	945,010	1944	2,338,081
1877	185,813	1911	980,178	1945	2,366,154
1878	198,733	1912	1,013,095	1946	2,391,856
1879	211,078	1913	1,049,326	1947	2,413,675
1880	223,210	1914	1,083,267	1948	2,433,824
1881	240,373	1915	1,123,212	1949	2,457,797
1882	254,836	1916	1,166,419	1950	2,492,944
1883	269,820	1917	1,210,389	1951	2,536,016
1884	291,016	1918	1,251,458	1952	2,580,379
1885	310,168	1919	1,290,027	1953	2,624,046
1886	353,494	1920	1,329,352	1954	2,664,562
1887	355,291	1921	1,364,063	1955	2,698,434
1888	375,720	1922	1,401,948	1956	2,728,913
1889	395,305	1923	1,440,362	1957	2,775,762
1890	418,665	1924	1,478,996	1958	2,818,567
1891	443,987	1925	1,521,590	1959	2,866,973
1892	466,315	1926	1,568,040	1960	2,919,443

Reprinted from the California Blacksmith

**North West Blacksmith Association**

## THE GODDARD METHOD OF SHARPENING.

By Wayne Goddard

I use denatured kerosene for a sharpening fluid. (WD 40 will work also, but clogs the stones up over a period of time) Kerosene keeps the stone clean, creates the quickest cutting action and is economical. I use an angle of 12 to 15 degrees per side. The angle varying with the type of knife; less angle for light use, more angle for heavy use.

Leatherwork and woodcarving knives are sharpened by laying them nearly flat on the stone. The thinner edge will cut the soft materials better, and the strength of the edge isn't a factor. At the other extreme is the survival type knife blade where strength is required, the sharpening angle should be greater. The knife edge must have enough material in it to handle the particular type of work that it is intended for. The best angle for your own knives is best worked out by trial and error.

There are other choices for sharpening equipment. The important thing is to learn how to use whatever you have. I rate sharpening systems by the time required to remove the necessary steel and refine the edge. Many bench stones are made with inferior and irregular grit. These are usually attractively priced, but slow cutting and wear out quickly.

I prefer the Norton India/Crystalon stones because of the uniformity of grit size and the purity of the grit, this gives them their superior ability to remove even the hardest metal... Silicon carbide will cut the hardest knife blades, no questions asked. I have often said that there is no such thing as a hard to sharpen knife. There are knives that have blades that are too thick to be easily sharpened on any stone. What they need is re-grinding.

Crystalon is the Norton trade name for silicon carbide, and India is their trade name for aluminum oxide. Arkansas stones are very slow cutting, I have

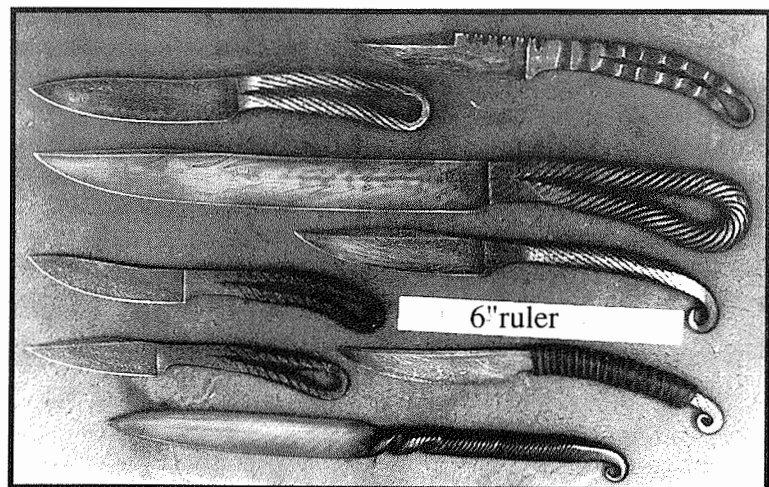
better things to do with my time. They will give a very good edge.

Before we discuss sharpening technique it will be necessary to understand a few very important factors in the sharpening process. First of all, and the most important is, it takes two different stones to do the total job. The sharpening process should be thought of as two distinct and different operations; first roughing and then finishing.

**There are other choices for sharpening equipment. The important thing is to learn how to use whatever you have.**

For the roughing process a stone is required that will quickly remove material from the hardest blade. This stone should have grit made of either silicone carbide or diamond, there is nothing else that works quite so fast. The grit size will be around 150 to 240. I use the Norton Medium Crystalon for the roughing operation. The roughing stone leaves a coarse and ragged edge that will saw through fibrous materials but will not be suitable for any type of fine cutting. The finish stone smooths up the edge and is used to take the wire edge off, leaving a true sharp edge. The finish stone is the Fine India. The grit size of 320 is fine enough to give a hair shaving edge yet leaves enough micro-teeth to give superior slicing ability.

The sharpening process is started by taking





## Sharpening . . . continued

cuts across the stone in the direction of the arrows. Do five strokes, then reverse the direction for the other side of the blade. To maintain the correct angle for the full length of the blade it is necessary to lift the handle of the knife as you get towards the tip...it's a compound angle. Ink in the cutting edge with a red Marking pen before starting, this will give you a visible indication of where you are contacting the edge on the stone. To help yourself learn the correct angle, make a wedge out of wood the shape of the sharpening angle. Lay it on the stone with the knife on it to give yourself a visible reminder of the correct sharpening angle.

### PRACTICE, PRACTICE, PRACTICE

When there is a lack of control in the sharpening process it usually results in the edge becoming rounded over. The knife blade will not be truly sharp unless the bevels are true and flat and it takes good control to achieve this.

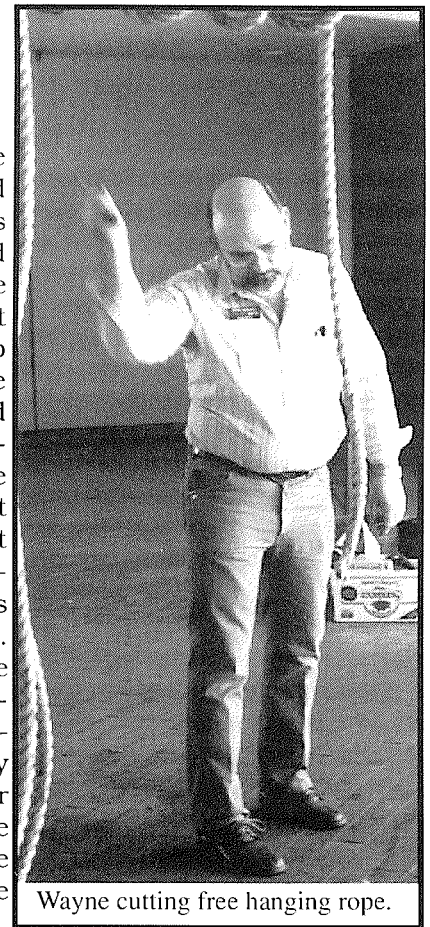
### THE WIRE EDGE

It is important to understand the wire edge and how to get it off of the freshly sharpened blade. The wire edge is formed as the two sharpening bevels meet at the edge. What we call a wire is a thin piece of blade material that bends back and forth from the action on the stone and is not removed. When the wire edge is not lined up the knife will not appear to be sharp, yet sufficient material may have already been removed. Since the edge does not feel sharp it is often worked some more on the stone and many knives are worn out prematurely from this over working. When the wire edge is lined up the blade will seem to be sharp. I refer to this phenomenon as "false sharp". The blade may shave hair and slice paper, but when the edge contacts any type of hard substance the wire edge bends over and the knife quits cutting.

### REMOVING THE WIRE EDGE

My favorite way to remove the wire is to stroke the edge very lightly on the finish stone at an angle of around 30 degrees. The strokes are alternated from one side to the other and are very light. You will be able to feel the wire edge on the side of the blade that is opposite the side the last stroke was on. You will feel the hook of the wire with a fin-

gernail. As the blade is stroked with the light cuts the wire is abraded off, leaving the true sharp edge. It might seem that the steep angle used to get the wire edge off would slow down the cutting ability of the knife, but it doesn't because not that much material is removed when it is correctly done. When properly done you will have a superior and long lasting edge. In my opinion, buffing or stropping should be done after the wire is removed on the stone.

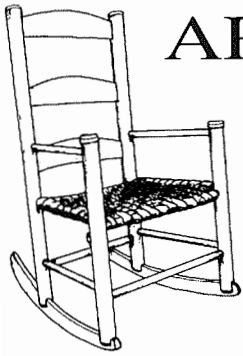


Wayne cutting free hanging rope.

It is very easy to lose the sharp cutting angle at the edge when trying to get the wire edge off by buffing or stropping. The angle on the strop or buff is critical, if too steep, the edge gets rounded off and the edge loses its true sharpness. I recommend getting the wire edge off on the stone, then buffing or stropping to polish the edge when that is wanted or needed.

### THE STROP STICK

A very excellent strop stick can be made as follows. You will need a strip of wood one inch wide and about a foot long, also a strip of leather as wide as the wood and about eight inches long. Glue the leather to the wood, leaving a handle at one end. I use the same green polishing compound on the strop that I use for polishing blades. The leather is lightly coated with the green compound and your strop is ready to use. A little stropping goes a long ways, don't over do it. Experiment with your knives to see how much "polish" you want on your edge.

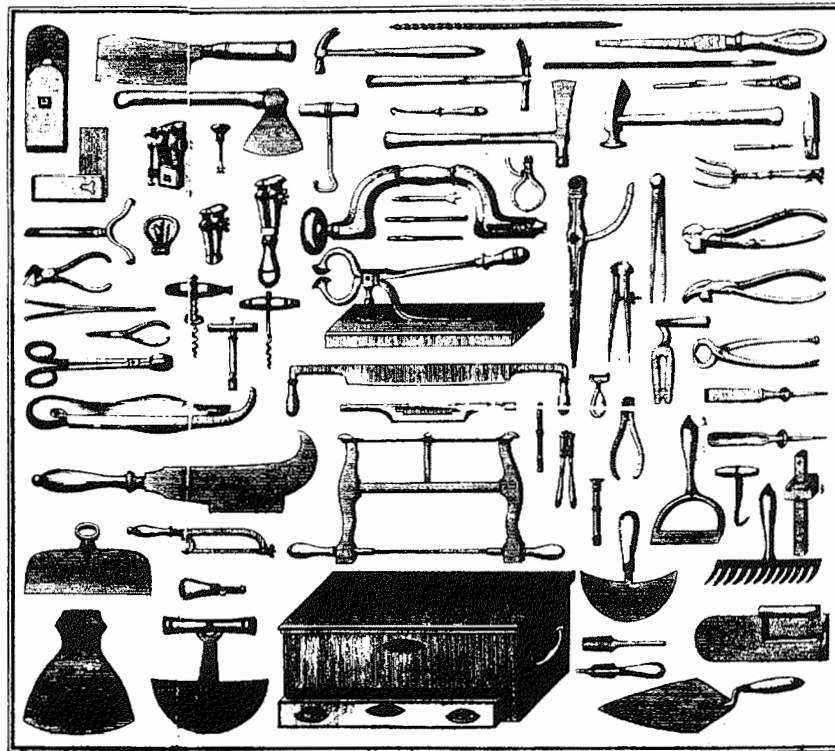


# ARMCHAIR BLACKSMITHING TOOLS FOR THE TRADES AND CRAFTS

*An Eighteenth Century Pattern Book*

*J. Timmins & Sons, Birmingham*

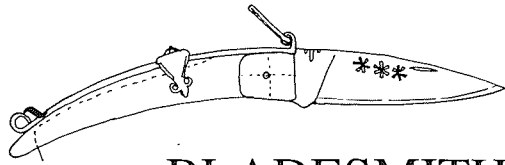
with Documentary by  
Kenneth D. Roberts  
Fitzwilliam, N.H.



This book is an excellent resource for hot iron folks and tool collectors. It has 228 pages chocked full of engravings, advertisements and catalogs of the past (circa 1700-1900). Originally priced at \$30.00 it's now \$18.00 plus \$2.24 shipping, a real bargain. 8 1/2"X11" hardbound, order from Ken Roberts Publishing Co. PO Box 151, Fitzwilliam, NH 03447

Thanks to Ike Bay for the info on this book.

**North West Blacksmith Association**



# Bladesmith Corner

## BLADESMITHING/KNIFEMAKING CLASS

BY

CAFFREY CUSTOM KNIVES  
ED CAFFREY, ABS JOURNEYMAN

Imagine a knife that can sever a free hanging 1" rope with a single stroke. Then has the capability to chop two 2X4s in half and still be shaving sharp. And finally, flexed to 90 degrees without breaking, or even cracking. Most would say this type of knife performance is impossible, but, it is not! In fact, these are some of the same tests that are used as Quality Control measures at Caffrey Custom Knives. With the proper knowledge, a little commitment, and a will to succeed, anyone is capable of producing high quality forged cutlery.

**CAFFREY CUSTOM KNIVES** is proud to offer classes in Bladesmithing knifemaking. With nine years of experience, producing some of the "toughest", "best cutting" blades available in the world today, and currently holding a Journeyman's rating with the American Bladesmith Society, I possess the knowledge, and skill that can get you started producing your own high quality forged cutlery. I offer two different classes as follows:

**BASIC BLADESMITHING:**

This class will consist of two days of "hands on" instruction, (in either 2 eight hour day sessions, or 4, four hour evening sessions) and is intended for those who have had little or no experience in Bladesmithing. It will include all the **basics** of design, forging, heat treating, and finishing. Students will be responsible for their own lodging arrangements and meals. In addition, each student will be required to sign a waiver of liability before starting classes. Tuition for the Basic Bladesmithing course is \$250.00 and must be paid in advance.

**ADVANCED BLADESMITHING:**

This five day class is intended for those who have a basic understanding of Bladesmithing/knifemaking, and will cover areas more in depth than the basic course, to include damascus steel. Individuals must have completed the basic class, or demonstrate their ability to forge, prior to beginning. Each student will have produced a "test" blade and a completed knife at the end of the course. Students will be responsible for their own lodging and meals. In addition, each student will be required to sign a waiver of liability before starting classes. Tuition for the Advanced Bladesmithing course is \$675.00 and must be paid in advance. Class schedules are flexible. Call or write for additional information.

Ed Caffrey, ABS Journeyman  
2608 Central Ave. West  
Great Falls, MT. 59404  
406-727-9102

Ed's knives were pictured in fall 95 Hot Iron News

**North West Blacksmith Association**



## "Old Cedar Forge" Shop Rules

- \* Wear eye and hearing protection.
- \* Propane-if you smell it, get an instructor-quick.
- \* Consider all iron **hot**.
- \* Quench tongs before stowing in rack.
- \* No top or bottom tools in power hammer dies.
- \* Remove hardie from anvil after hot cutting.
- \* No cigarette butts on floor or ground.
- \* No sharp edges on hammers.
- \* Watch where cutoff piece goes when hot cutting.
- \* When grinding, no sparks in other's face or body.
- \* Meal time is break time- No students work.
- \* Cans, bottles and refuse in trash cans, burnable stuff in shop stove.

Jerry Culberson hosts many workshops in his Old Cedar Forge. The above are the current shop rules. They change from time to time as the need arises, and are posted on shop wall and discussed early in a workshop. Some of these may seem trivial but some students have little or no metalworking experience.

## Shop Tips

### TOP TOOL TIDBITS

A large top tool has more inertia. If you strike that tool with a hammer, it will absorb the energy it needs to begin moving and then transfer whatever is left to the work piece. The bigger the top tool, the more energy it will absorb. The way to defeat this is to either strike the tool harder, get a bigger hammer, or use a smaller top tool. Match the tool to the work you are doing-- you just do not need a big chisel to split the end of a small piece of metal. A smaller top tool will permit you to use a lighter hammer and still get more work done with a lot less fatigue. This is important over the course of a full day's work.

If you are working on big pieces that contain a lot of heat and are very thick, like drifting or punching the eye of a hammer, a large tool is the correct choice. If you are making a small hole, slit, split, groove or drift something under 1/2 inch, use something smaller. There isn't enough heat in the piece to ruin the tool and you will complete the operation much faster. Trust me — try it you'll like it.

*Franklin Garland, Upper Midwest Blacksmith Association by way of the Newsletter of the Blacksmith Association of Missouri, Nov/Dec 1994*





# Upcoming Events

## Novice Workshops at Old Cedar Forge

**Instructors:** Jerry Culberson, Berkley Tack,  
Dan'l Moore, Joe Elliot, and Gene Chapman

**Dates:** Novice I -- January 5-7, 1996

Novice II -- January 19-21, 1996

Novice I -- February 9-10, 1996

Call Gene Chapman for signup 360-297-2495

## **N.W.B.A. Spring Conference - April 12-14, 1996**

N.W.B.A. Spring Conference at St. Helens fairgrounds with demonstrators Paul Thorne, Artist Blacksmith from Anacortes, WA and Grant Sarver, Heavy Hammer Smith from Tacoma, WA. Paul's Seal Gates were on the last Hot Iron News cover. He will be a new treat for us. Grant "Makes a nice pair of tongs" Sarver will have his "Kick Ass" power hammer and will demo tooling.

## **Northern Rockies Blacksmith Association and Northwest Blacksmith Association Special Spring Conference - May 17-19, 1996**

N.W.B.A. and N.R.B.A. joint Spring Conference at Dave and Babe Brandon's farm nestled in the beautiful Bitterroot Valley, Stevensville, Montana. The N.W.B.A. was invited to attend the Northern Rockies Blacksmith Association conference at the Spring meet in Winthrop. The N.W.B.A. board has sanctioned the event and will help sponsor the N.R.B.A. Spring conference. This way N.W.B.A. members can attend and support the conference without joining the N.R.B.A. Any proceeds from auction items donated by N.W.B.A. members will go to the N.R.B.A. Jerry Culberson is scheduled to be one of the demonstrators. This will be one heck of a shindig. Wayne Goddard and I were over that way several years ago. I'd rate it as one of the best places for a conference ever. More to follow in the Spring issue.

## **ABANA Biannual Conference**

June 26/30 at Alfred, NY will be the site of ABANA's biannual conference. Demonstrators and info on page 39. Note N.W.B.A.'s Dave Thompson will be doing a demo at the Alfred conference.

## **N.W.B.A. Fall Conference 1996**

Russ Jaqua's new forge in Port Townsend is the scene for the fall conference. His new shop is in an industrial area with plenty of room but no cooking and dance facilities. Won't be like Winthrop but we may call in the local National Guard with cook tents, latrines, USO and bugles in the morning for life in the boondocks. Mike Bondi and Dennis Proska (**Heavy Hammer Smiths**) will be demonstrators.



## Upcoming Events continued

# Monthly Hammer-In

John Loeffler of Blue Moon Studios is starting a monthly "Hammer-In". John moved from Missouri several years ago. He said, "There are quite a few regional get togethers or 'hammer-ins' in Missouri and they are very popular."

Subject matter will vary from chalk talks, demos and hands on involvement. You will be asked to sign a disclaimer at each event. If interested, contact:

John Loeffler  
Blue Moon Studios  
10090 Main St.  
Peshastin, WA 98847  
(509) 548-4754

**METALfab '96** is scheduled for February 13-17, 1996 at John Ascuag's Nugget in Reno, Nevada. This will be the 38th Annual Convention & Exposition of the National Ornamental & Miscellaneous Metals Association (NOMMA). Contact NOMMA at 804-10 Main Street, Suite E, Forest Park, GA 30060 phone (404) 363 4009 FAX (404) 366-1862 for full information. The show will offer shop tours, unique demonstrations, trade show, education sessions, and the opportunity to talk to other fabricators.

### FAWS certification clinic

Jan 20, 1996 Enumclaw Forge, Enumclaw, WA

Wally Johnson is the speaker. Clinic will cover both practical and written expectations for all levels. A demonstration horse will be used. Pre-registration \$15.00/\$20.00 non or on site \$20.00/\$25 non.

Call Jim Stralser for more info 360-825-1998.

### FAWS Clinic: "Keg shoes vs. Handmade, the Everyday Story"

Mar. 16, 1996 Antigo Eq. Center, Bow, WA

Contact Debbie Wetmore 360-668-4132

FAWS is the Farriers Association of Washington State

**North West Blacksmith Association**



# 1996 Hot Iron Calendar

### January 1996

S	M	T	W	T	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
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Jan 5/7 Novice Workshop  
Jan 19/21 Novice II Workshop

### July 1996

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### February 1996

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Feb 9/10 Novice I Workshop

### August 1996

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### March 1996

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**Monthly hammer-in at  
John Loeffler's  
Blue Moon Studio  
10090 Main St.  
Peshastin, WA 98847  
(509) 548-4754**

### September 1996

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### April 1996

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April 12/14 Spring Conference

### Oct 96

Fall Conference,  
no date yet

### October 1996

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### May 1996

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May 17/19 NWBA & NRBA Joint Conference

**WORKSHOPS, HAMMER-INS, BLACKSMITH  
BAR-BE-CUES, CONTACT THE HOT IRON  
NEWS AND GET IT PUBLISHED.**

### November 1996

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### June 1996

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June 26/30 ABANA Conference

### December 1996

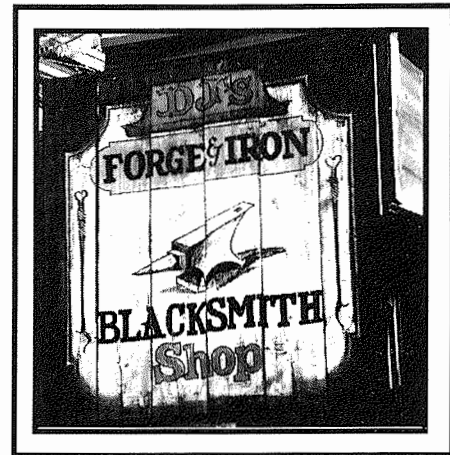
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May The Forge Be With You

**NorthWest Blacksmith Association**

# Fall Conference

A visit to Winthrop wasn't complete without a visit to D.J. Stull's Blacksmith Shop. Plenty of forged iron to look at and touch. Currently his place of business is without a working area but I'm sure D.J. has something in mind for the future.



Take away the autos and you go back in time a hundred years or so.

The Methow River was in all it's glory with the fall colors on the trees. A month later there was a foot of snow here. Winter comes early to this part of Eastern Washington. Hope we can do a conference here again someday.

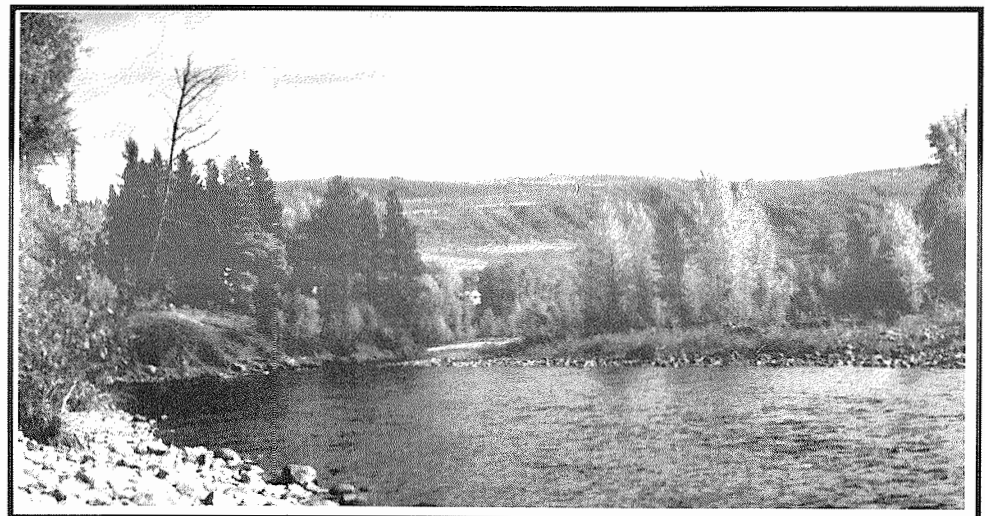


PHOTO BY  
INA CULBERSON



# Special Guests . . .

By Carol Stull

"We crashed the party, and it was worth it," declared George and Delores Daniels.

When George, 89, a former blacksmith, and Delores, a retired teacher, read that more than 100 blacksmiths were coming to town for the N.W.B.A. Fall Conference, they decided to check out the action.

George and Delores reported they are grateful for the chance to participate in activities not open to the public. They say they enjoyed meeting a bunch of nice people and seeing what blacksmiths are up to these days. And they were a little surprised by what they saw.

"I thought we'd find a bunch of old-time blacksmiths," George said, "but instead they were doing more novelty work."

George learned about forging back on his family farm in Petersburg, Nebraska. He's not sure how he picked up the skill, probably from his grandfather. That was before World War II and before electricity. The farm, where they raised hay and grain, had to be self-sustaining. The forge kept their equipment operational plus pulled in extra income by serving the needs of neighboring farmers.

"We just did forge welding. We'd use borax and heat to fuse the metal together, then pound and stretch it out to what we wanted."

After a stint as a Seabee during the war, George returned to

Loretto, Nebraska, and bought his own blacksmith shop. It was fully equipped, but old fash-

ioned standards, even had a Little Giant trip hammer, said George.

Here he turned out products to suit the agricultural community, including plowshares and hay cages for baling. George says he used the best materials and tried to keep up with progress, moving from coal to a gas forge and doing different kinds of welding work. But times were changing. Affordable help was hard to find. Other shops

sprang up and undercut his prices. Factories could turn out new plowshares faster and cheaper than he could. So, in 1959 he sold out and moved to Winthrop where his wife got a teaching job for double her Nebraska wages.

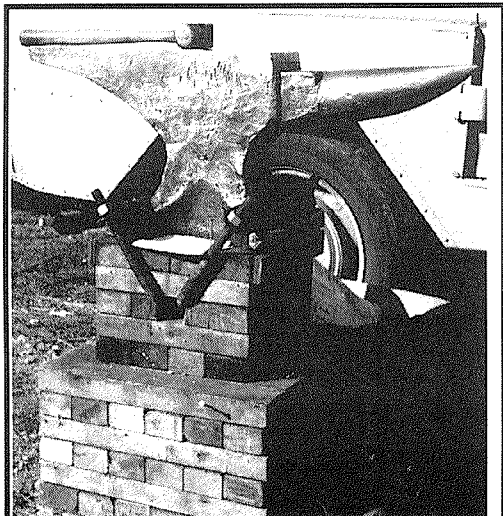
George continued to farm, but never got back to blacksmithing. He had sold most of his equipment because it was too heavy to move. Contact with the N.W.B.A. has revived his interest. He was amazed to see such fancy work being done, even on a coal forge.

"I certainly enjoyed their work. If I was 20 years younger, I'd get into what they're doing myself," declared George.

And even though he has suffered recent setbacks in health, Delores tells him one can do anything he puts his mind to. Who knows? George still has a hammer and anvil out in the barn!

*"We crashed the party, and it was worth it!"*





I think this was a tailgate item that sold real quick.

Auctioneer Jerry Culberson wrung \$3887.50 out of our tight blacksmith wallets... a record! Well done, Jerry!



A whole bunch of happy N.W.B.A. members try to bid up the other at the Saturday evening auction.

Photo by Ina Culberson

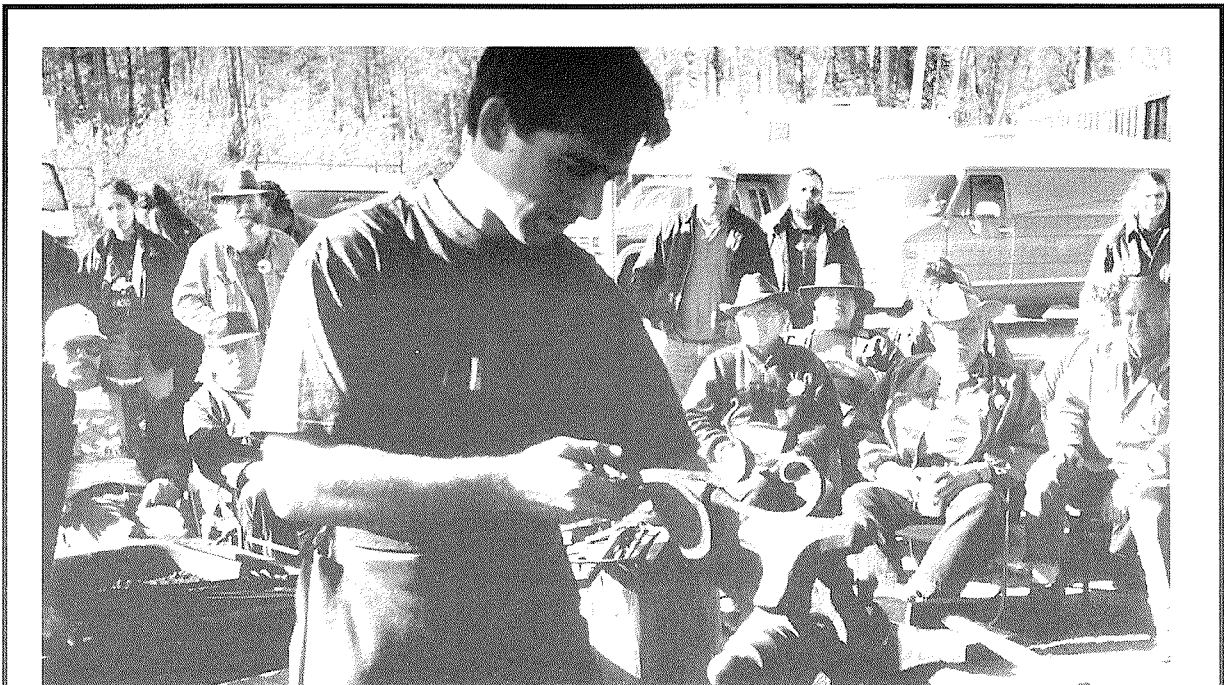
Seattle blacksmiths pose in front of The Barn where the dinner, auction, gallery and sales were held. This facility is owned by the town of Winthrop and hosts, dances, conventions and conferences at a reasonable price.

Photo by Louie Raff

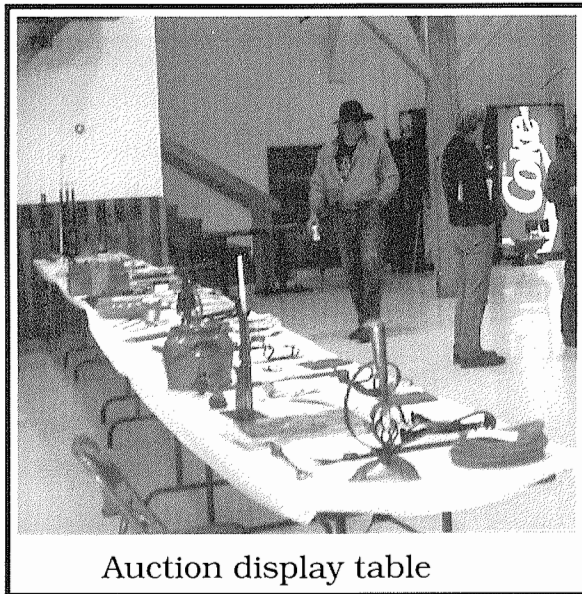




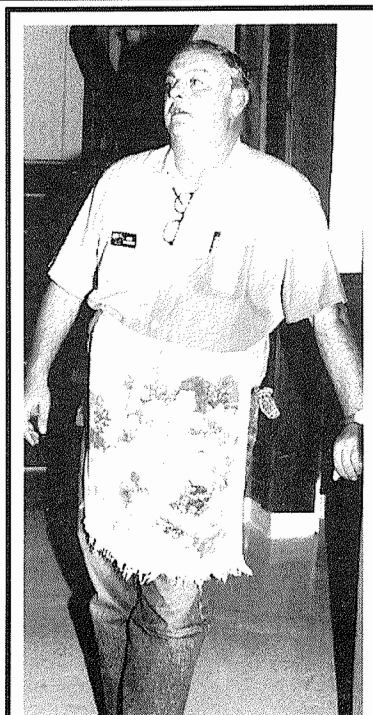
Gary Eagle demonstrated wagon and horse logging iron. It was a pleasure to watch both Gary and Japh work in a coal forge.



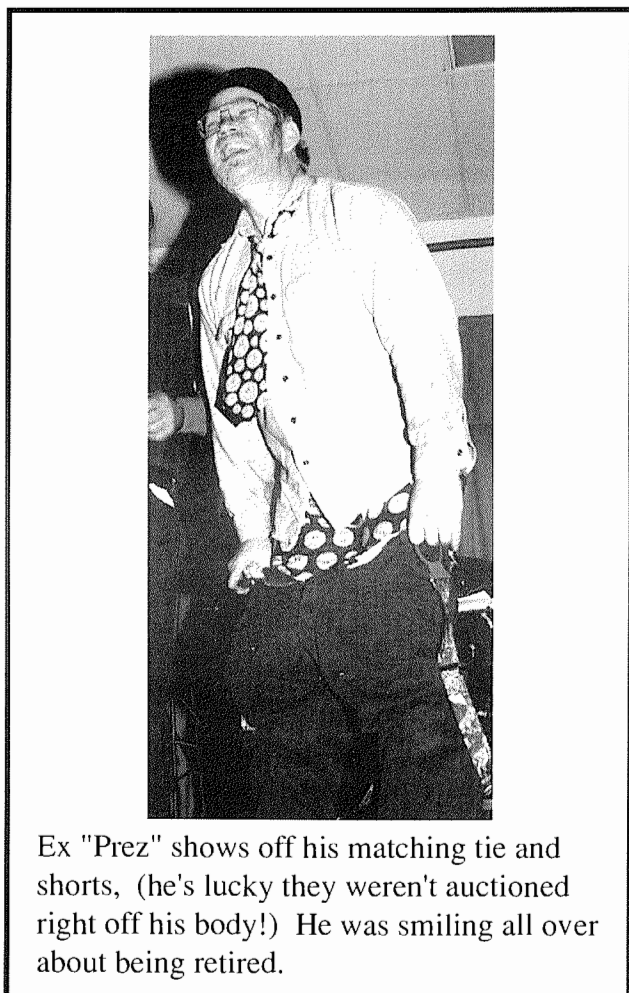
Japh Howard demos a scroll/leaf wall hanger, all the little detail adds up in this beauty.



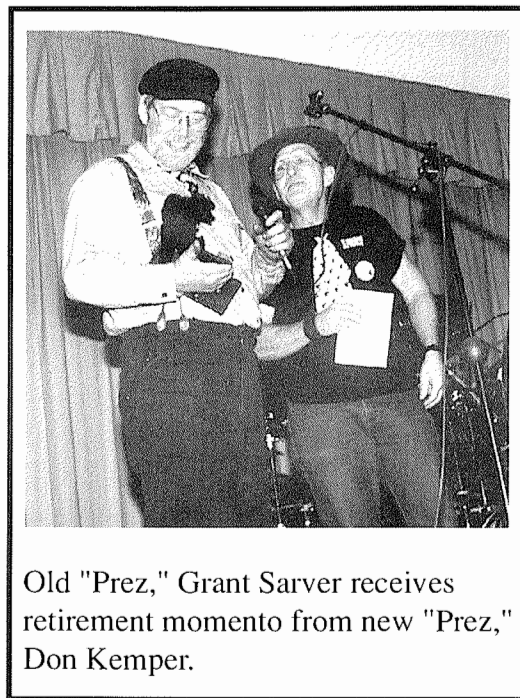
Auction display table



Chief dishwasher Jerry Henderson takes a break. His comments, "I'm all washed up!"



Ex "Prez" shows off his matching tie and shorts, (he's lucky they weren't auctioned right off his body!) He was smiling all over about being retired.



Old "Prez," Grant Sarver receives retirement memento from new "Prez," Don Kemper.

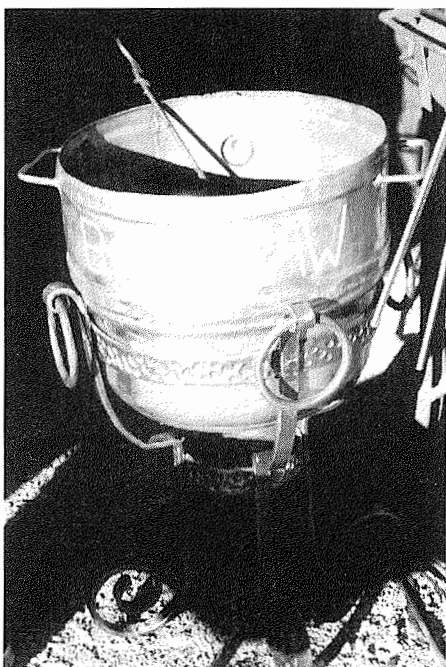
Photos by Ina Culberson and Vernell Henderson





Gary and Japh kept on-lookers riveted to the goings on. There were plenty of "I'd wish I'd thought of that" comments during the demos.

The demo tent was a busy place, beautiful weather, good friends, blacksmith talk and hot iron.

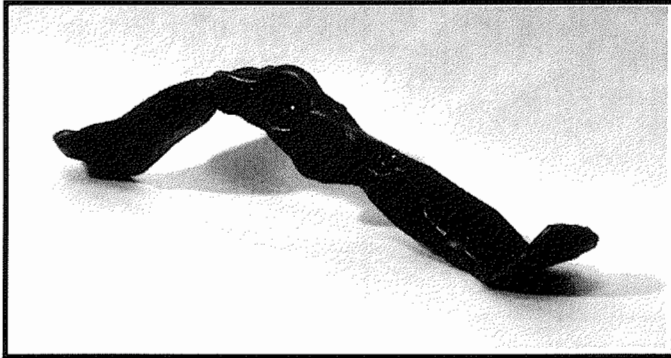


Gary Eagle's slack tub is a real work of art. Gives us wanna be's something to strive for.

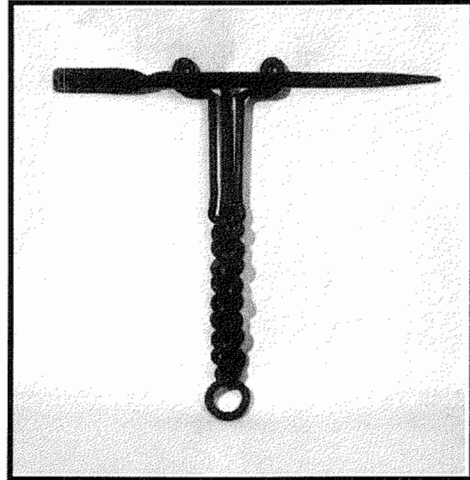
Attendance was about 200 at this event, a surprising number since Winthrop is off the beaten track. D.J. and Carol Stull, thanks so much for setting up The Barn as a conference site and all the work behind the scene. Some folks said this wasn't just a conference, it was a vacation.

# Fall Conference Gallery and Auction Items.

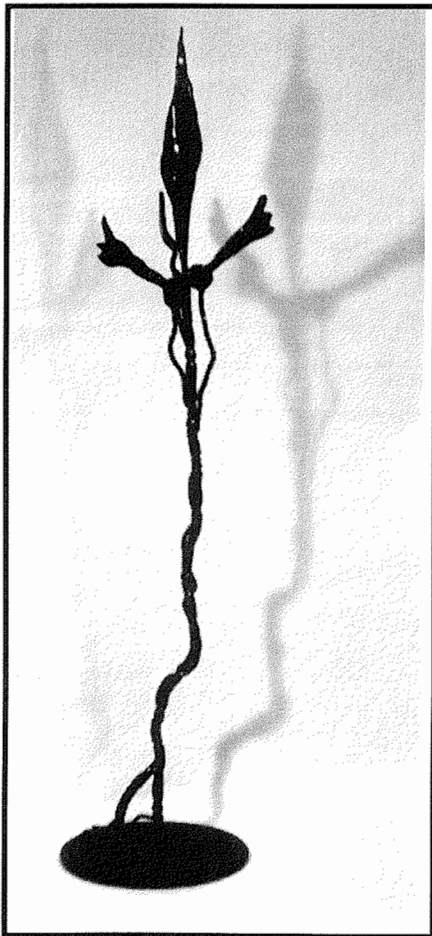
Note: I apologize to all who had gallery items or donated auction pieces, I messed up and can't identify all the makers. This will be rectified at future conferences. Your humble photographer. Gene Chapman



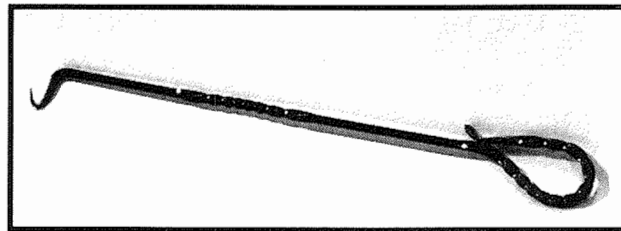
Sculpture



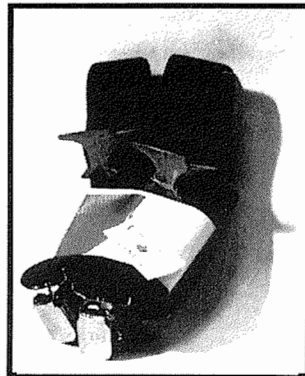
Chipping hammer



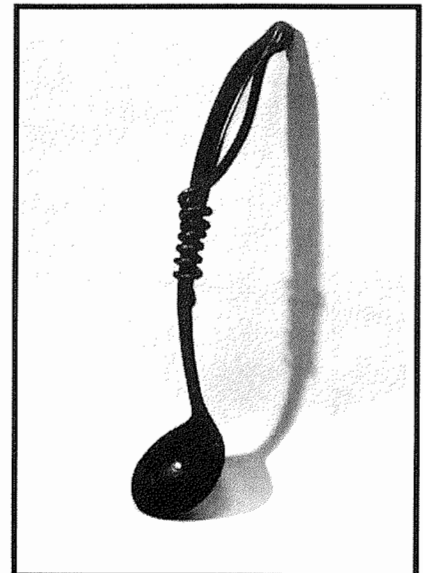
Sculpture by Chris Pauley



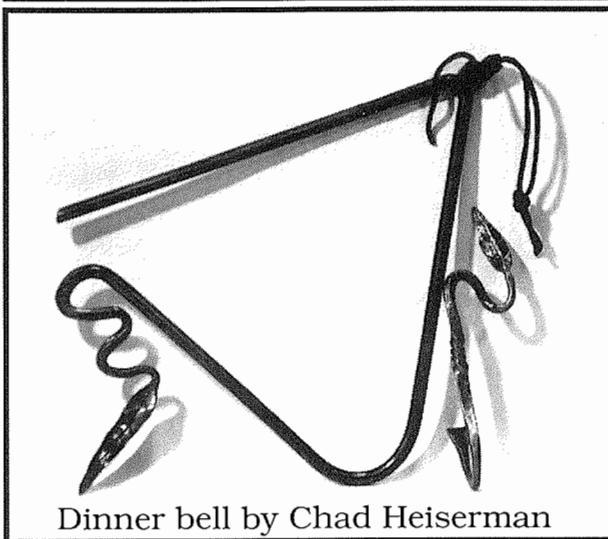
Steak Turner



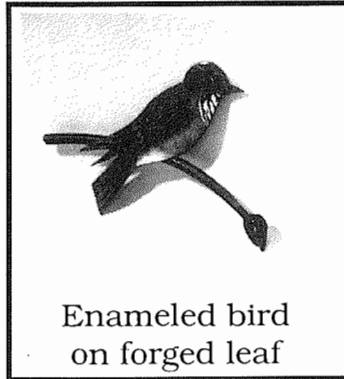
Suspenders by Wade Wade



Ladle by Glen Webb



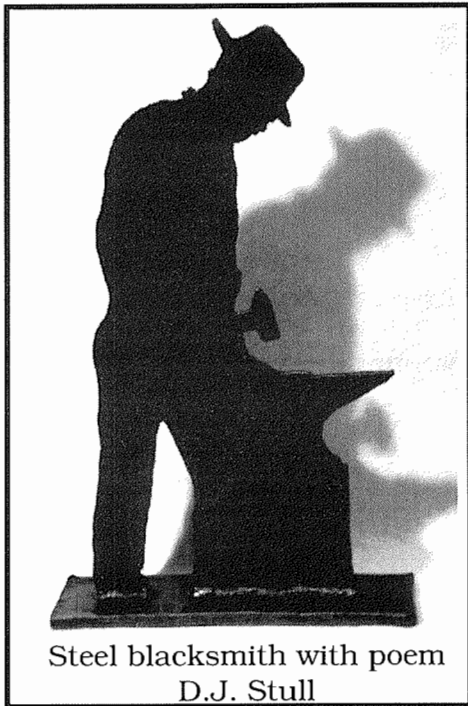
Dinner bell by Chad Heiserman



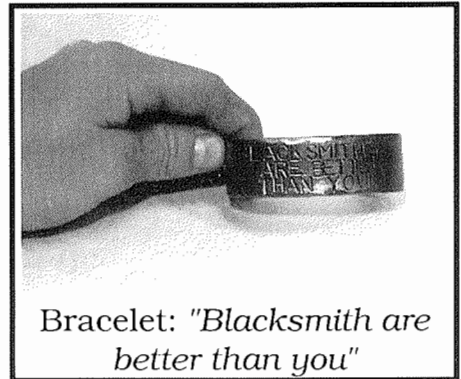
Enameled bird on forged leaf



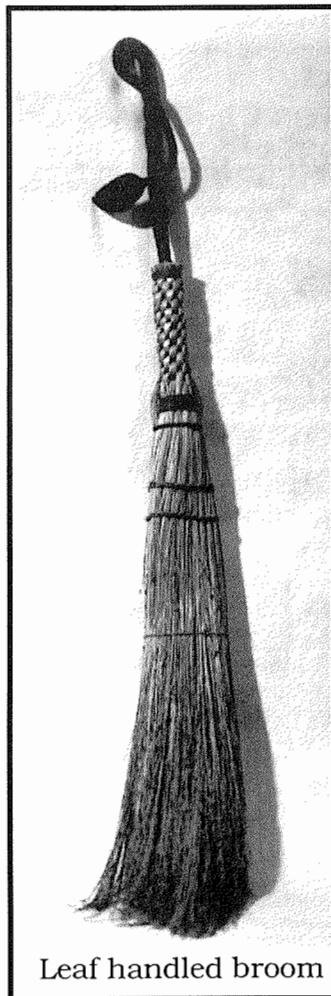
Stag toilet tissue holder



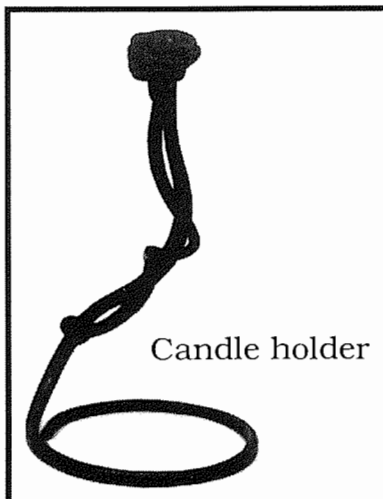
Steel blacksmith with poem  
D.J. Stull



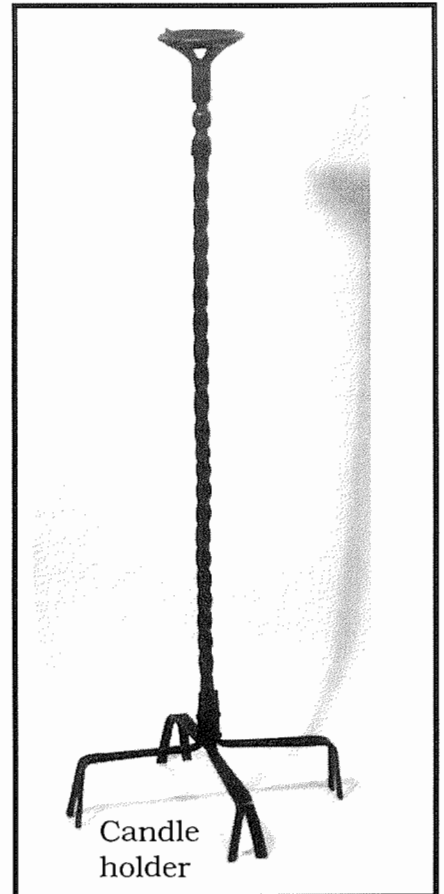
Bracelet: "Blacksmith are better than you"



Leaf handled broom



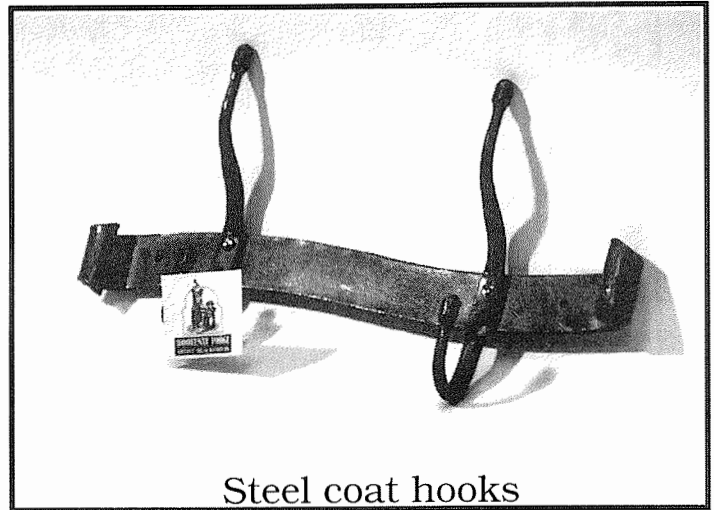
Candle holder



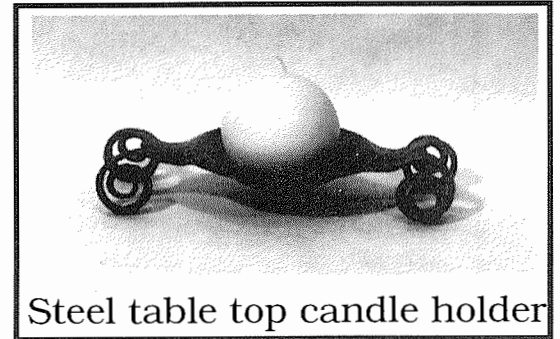
Candle holder



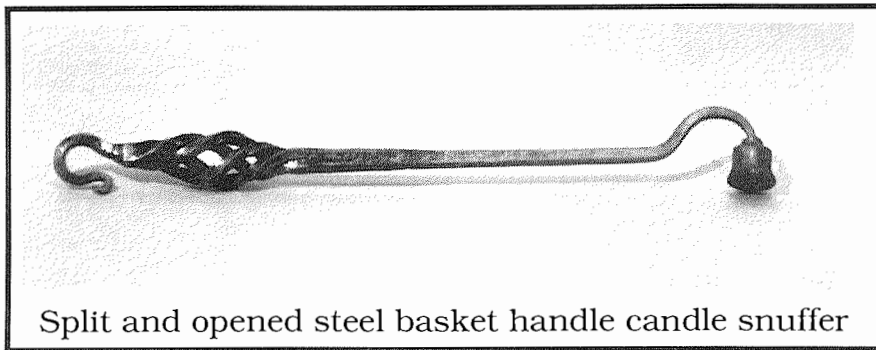
Swing mount candle holder



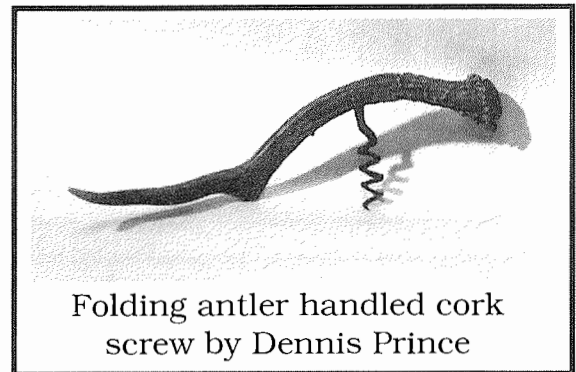
Steel coat hooks



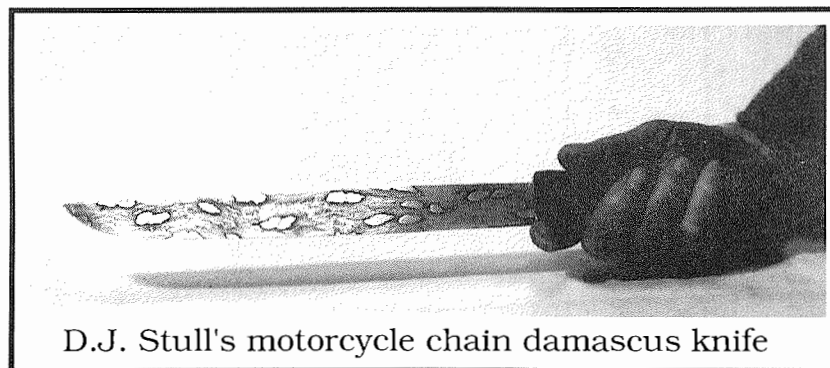
Steel table top candle holder



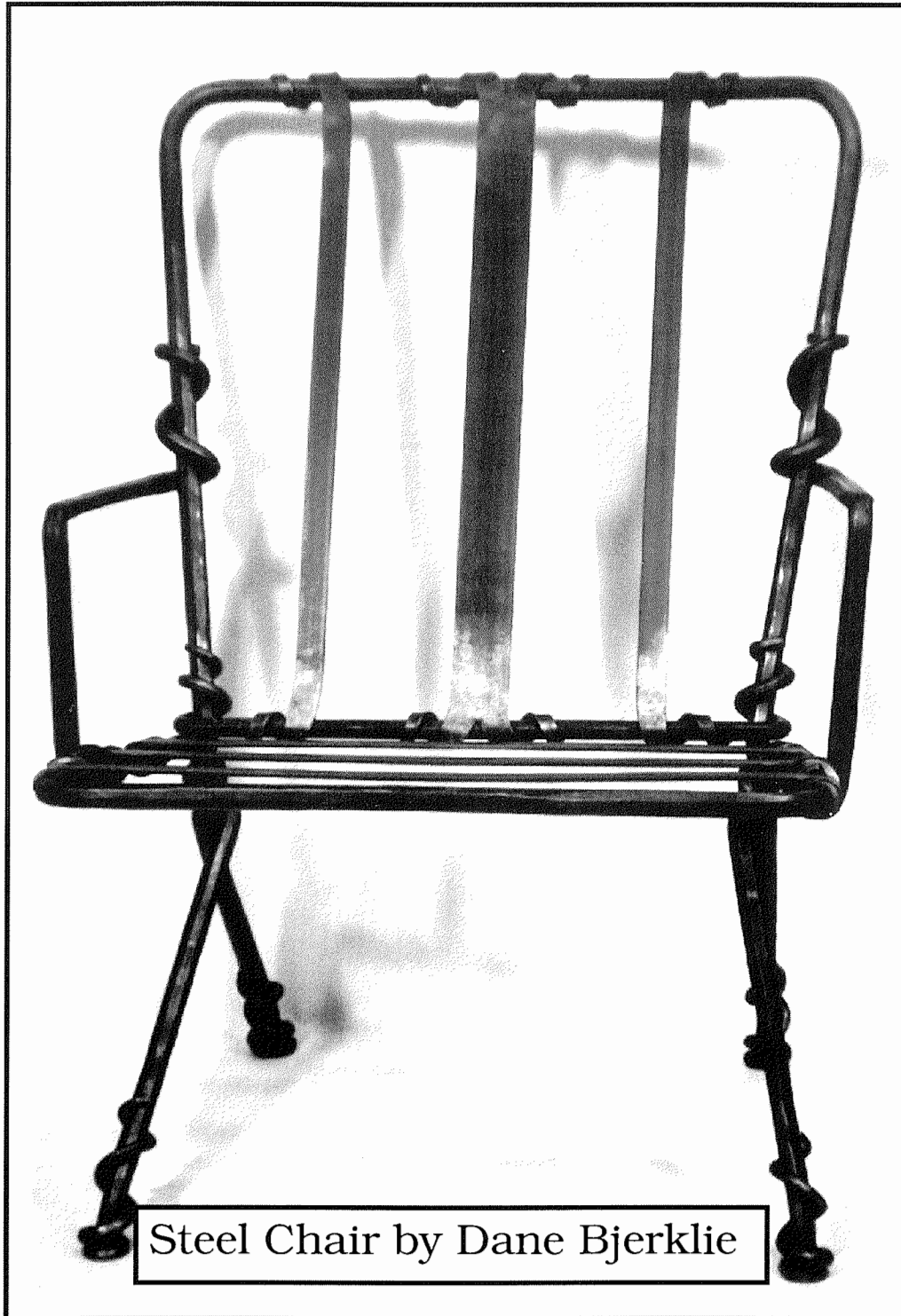
Split and opened steel basket handle candle snuffer



Folding antler handled cork screw by Dennis Prince

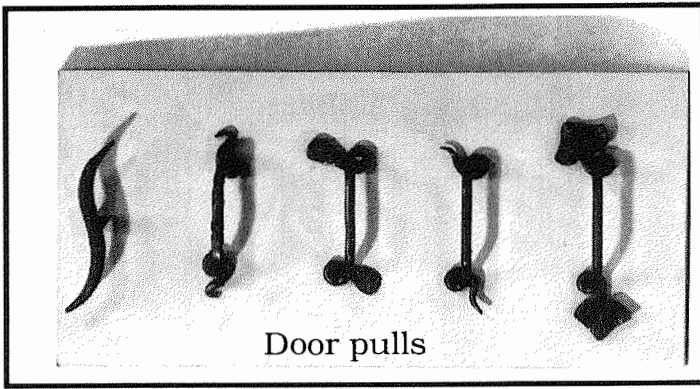


D.J. Stull's motorcycle chain damascus knife

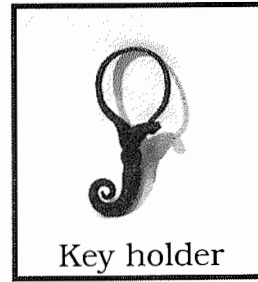


This chair set a record at the N.W.B.A. auction, over \$700. Jerry Kagele from Spokane was the lucky buyer.

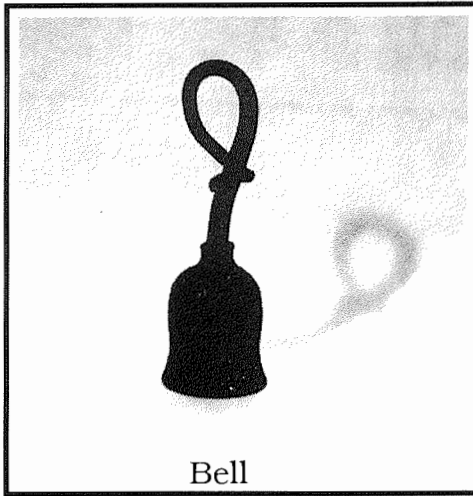
Dane works at 47 Productions in Seattle and hopes to have his own sculpture studio someday.



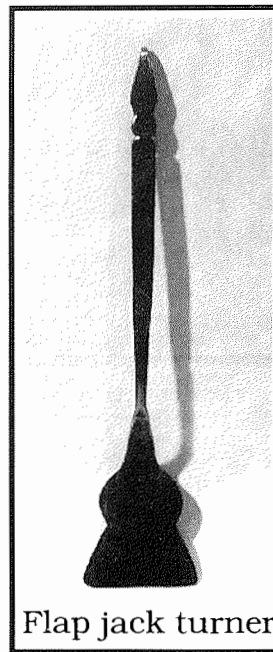
Door pulls



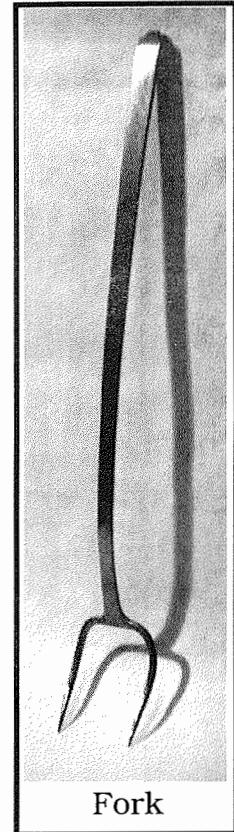
Key holder



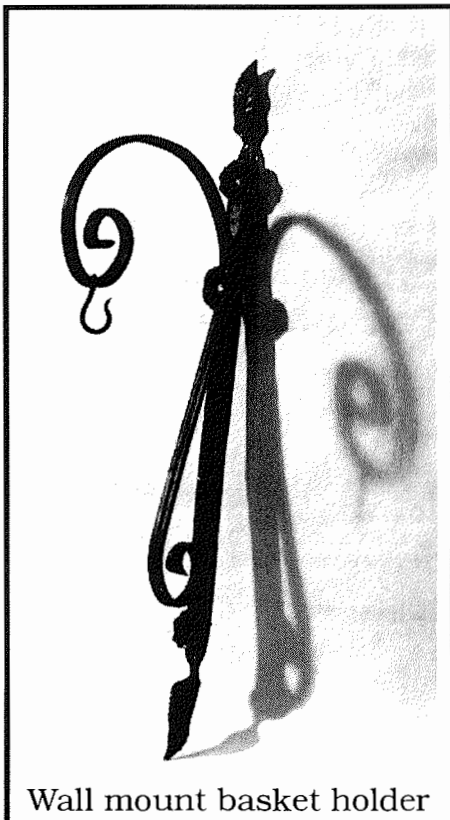
Bell



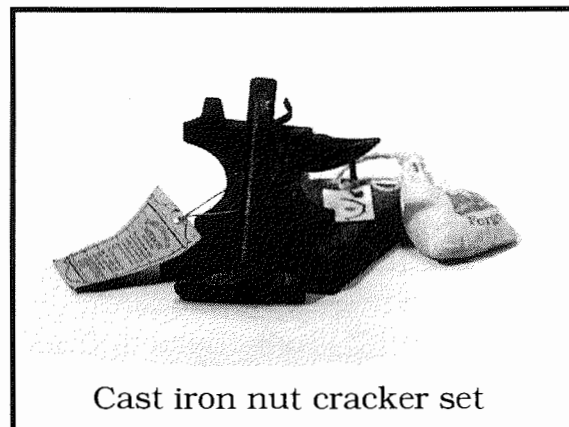
Flap jack turner



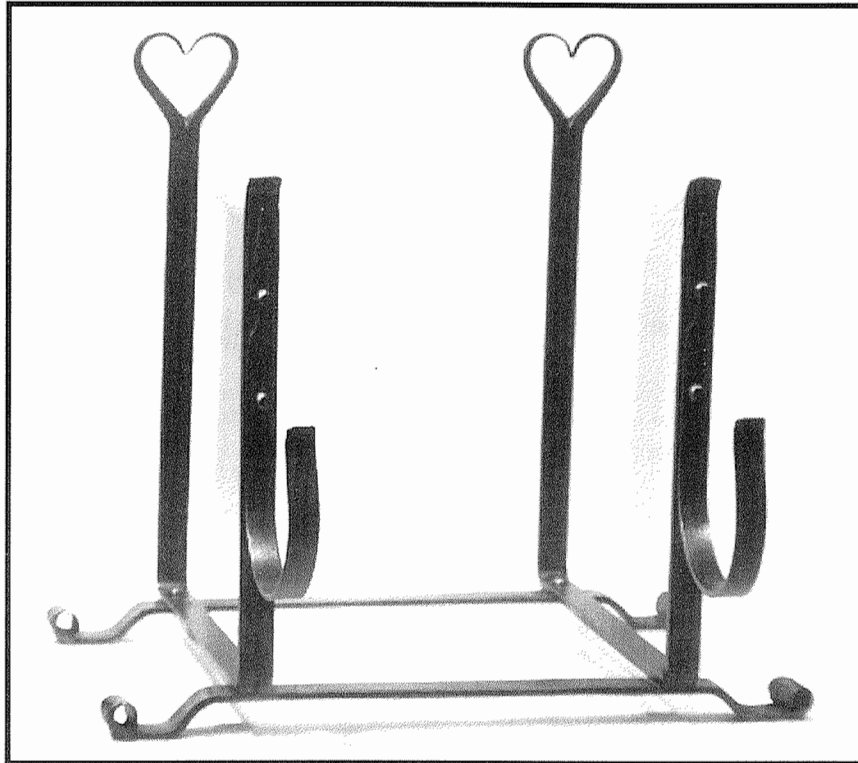
Fork



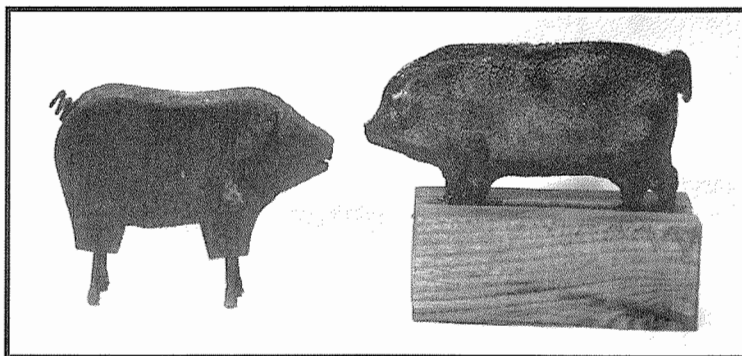
Wall mount basket holder



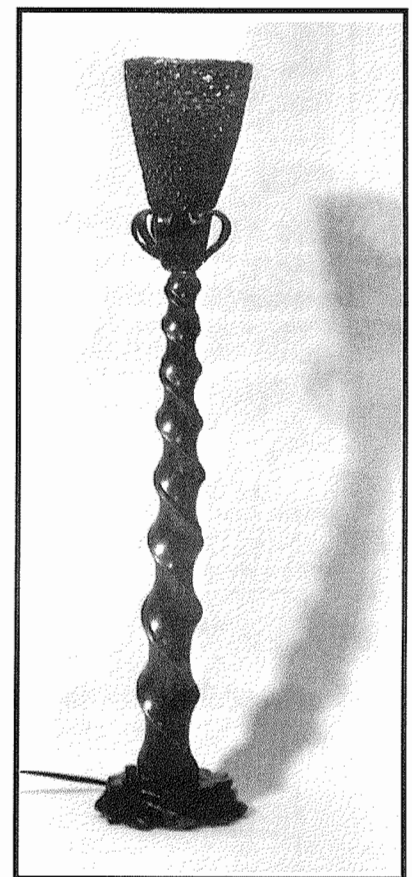
Cast iron nut cracker set



Log Rack by  
Randy Unger



Chris Pauley Pigs by  
Dave Brandon



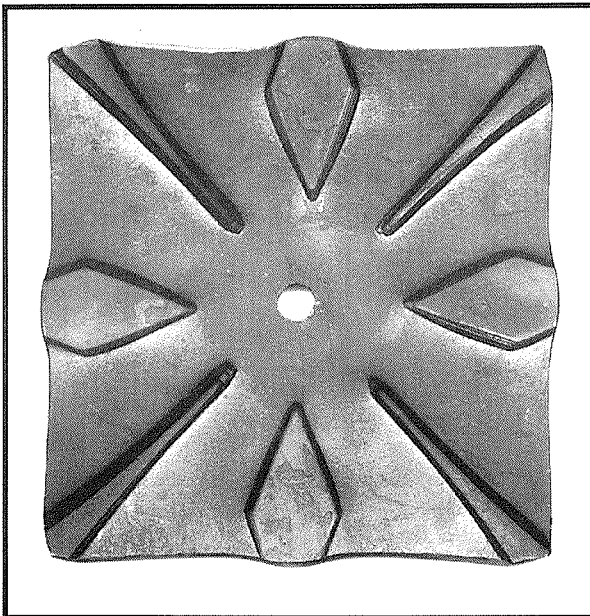
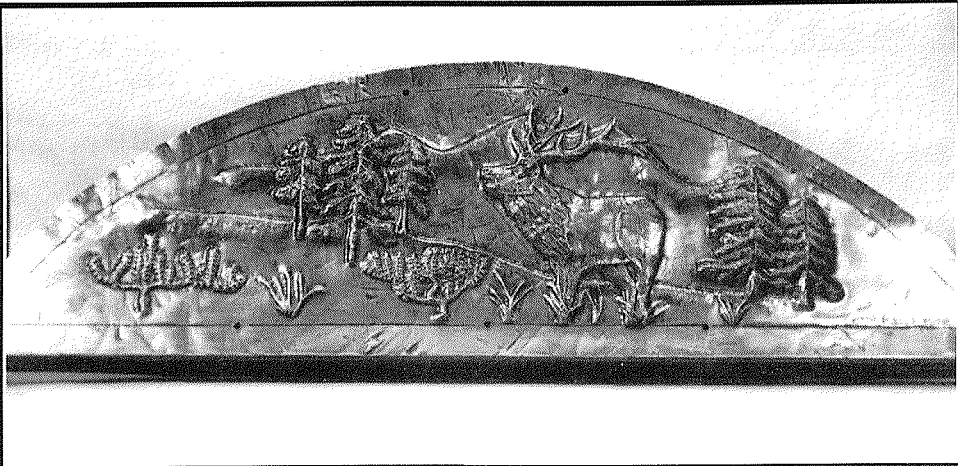
D.J. Stull lamp  
twisted angle iron and  
woven basket

Puffed chicken  
repose by  
Dave Brandon

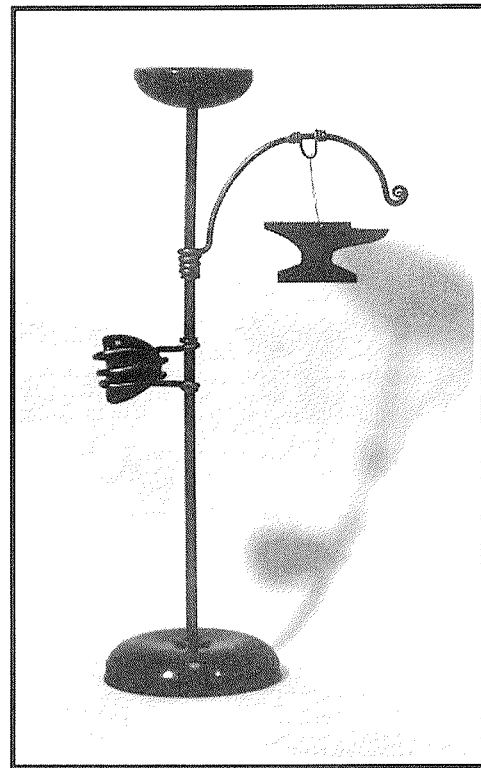




Copper repousse  
with forged iron  
frames  
by  
Dan'l Moore



Russ Jaqua Rosette



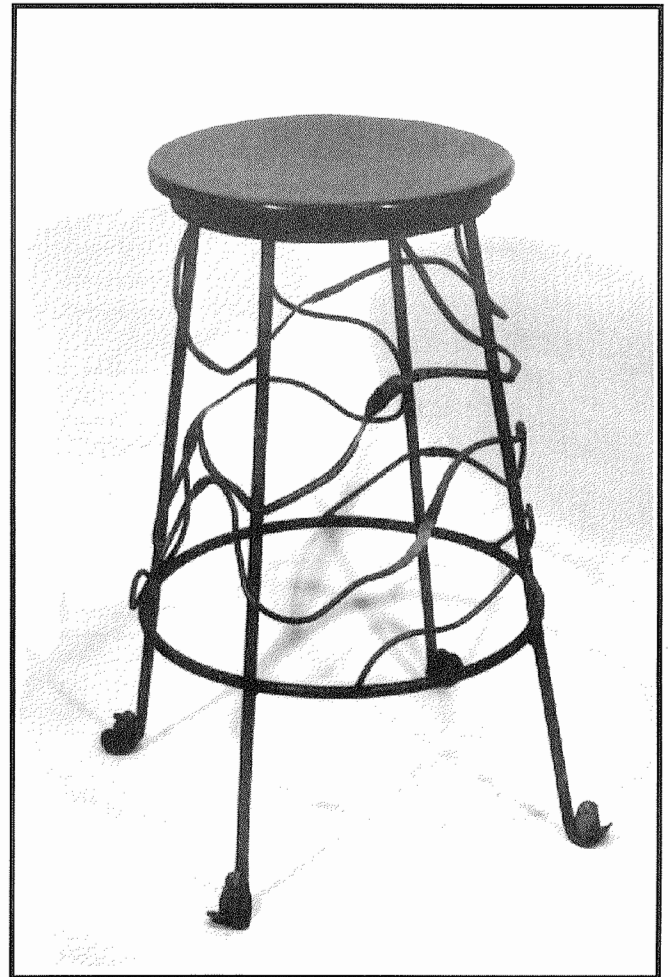
Candle stand in iron, wood  
and rock by Don Kemper

Russ' rosette was photographed but the black iron sucked in all visible light for miles around and the photo didn't turn out. So I placed the rosette in our UMAX scanner and scanned it at 300 dpi, then processed the image in Photoshop and placed it in Pagemaker. Ed.

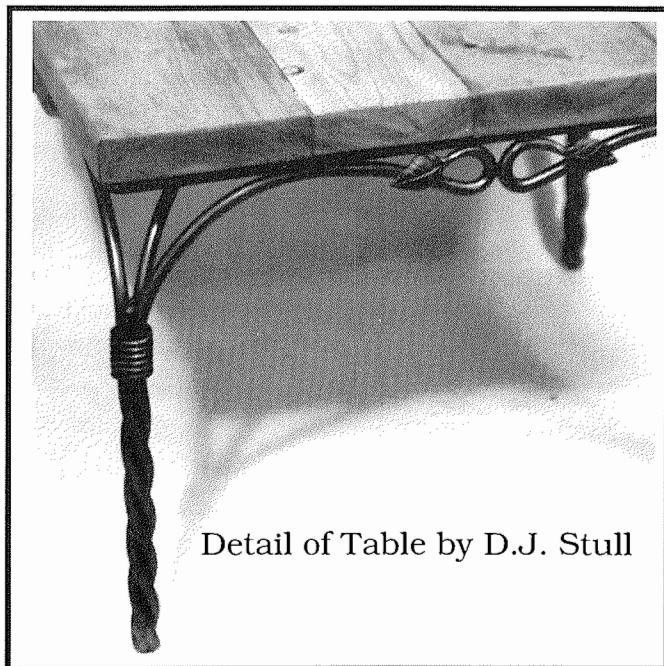




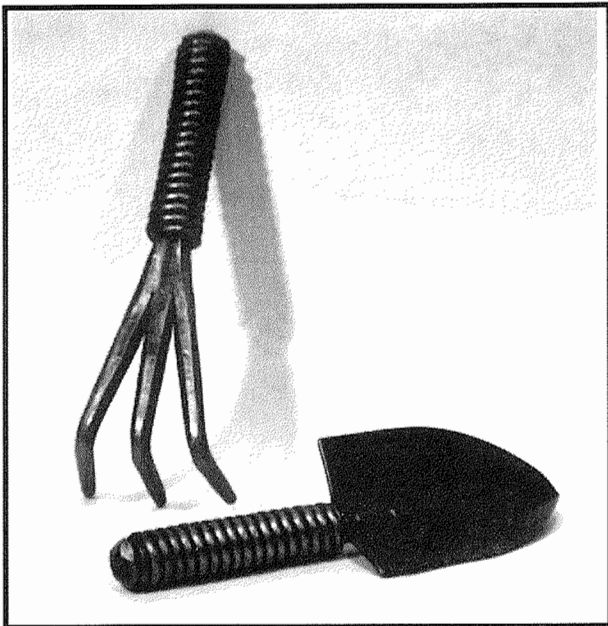
Stool by Laura Goemaat



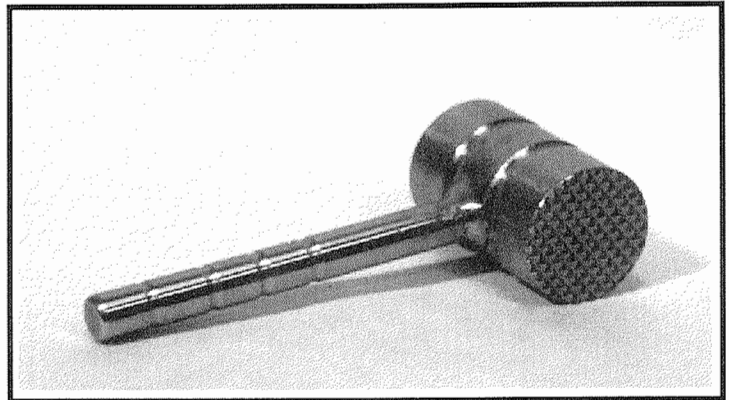
Stool by Alex Montgomery



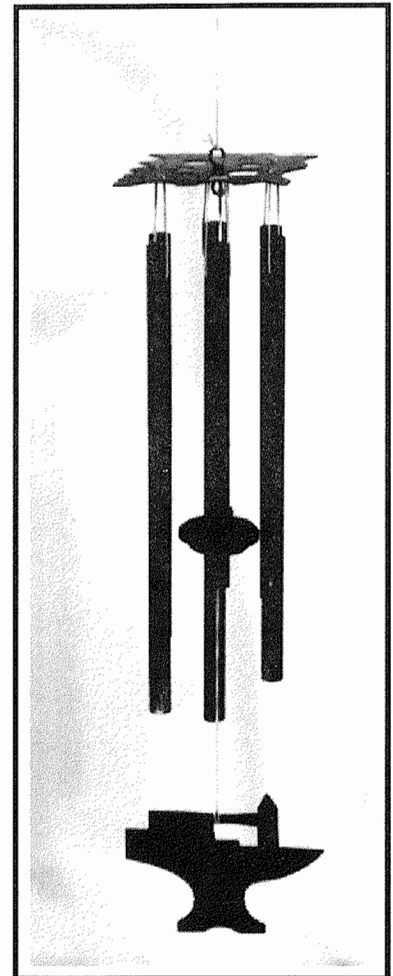
Detail of Table by D.J. Stull



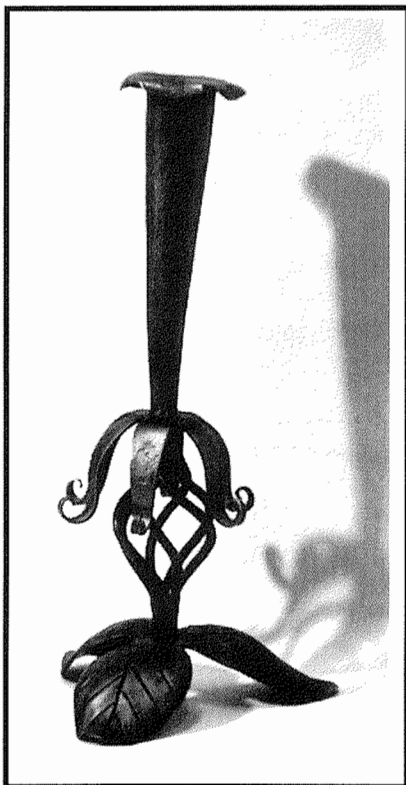
Garden tools



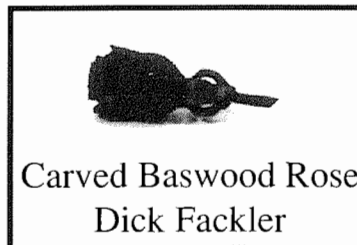
Machined steel kitchen tenderizer



Wind Chimes by  
Tom Richards



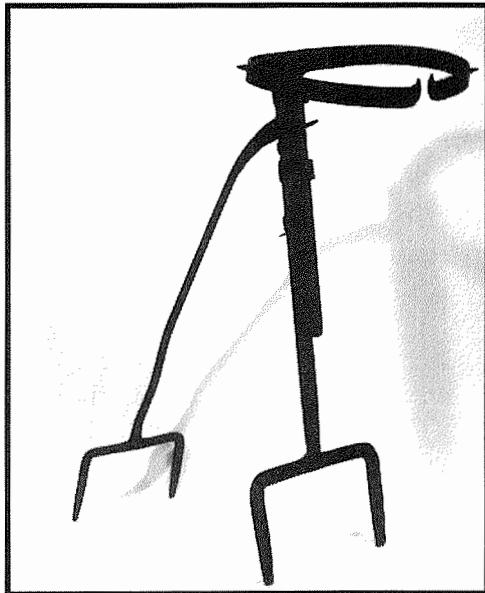
Forged steel bud vase



Carved Baswood Rose  
Dick Fackler



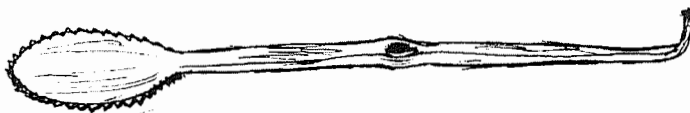
# Whatsit@?#?



Chris Pauley from Bellingham, WA brought this "whatsit" to the fall '95 conference. It belonged to his grandfather and was used in gardening. It's about 36" in height and is forged iron. Giant mole catcher maybe?



Gary Everett from Vernonia, OR had this device at the fall '94 conference. It's about 22" in length and is also forged iron(what else). Neck brace for the tin man?

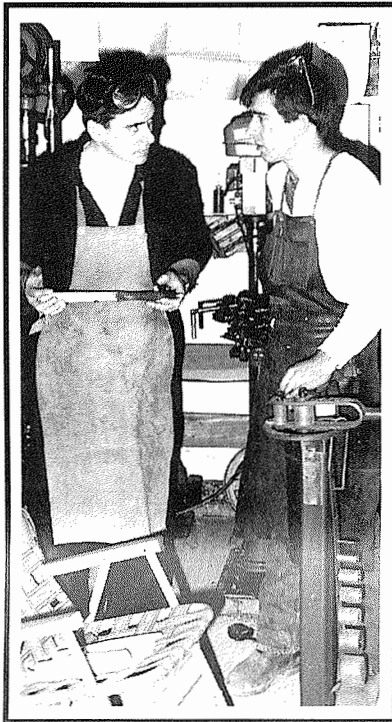


Randy Unger from Olalla, WA found this in a San Francisco Chinatown shop. Forged iron about 8" in length and came from the Phillipine Islands. The photo didn't show it well so you must settle for a drawing. Some of you old time South Pacific G.I.'s proably know "whatsit".

The "whatsit" from Fall '95 issue was identified as a nail puller, by Nahum Hersom, a manual steel dowel extractor by Rune Strom, a brad puller, shoe sole remover or upholstery tack remover by Will Stokes. Take your pick? Had more answers but misplaced the list. Sorry bout that.



Please bring more "whatsits" to the next conference. The supply is running low. Ed.

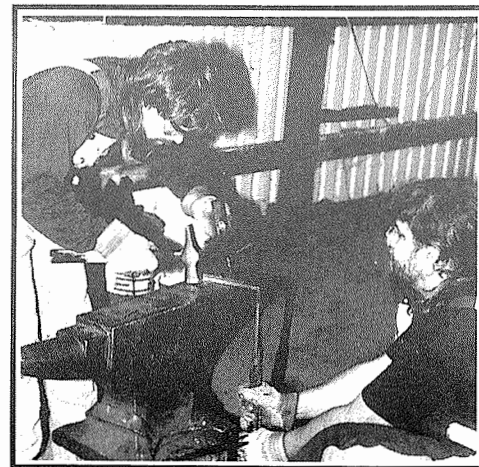
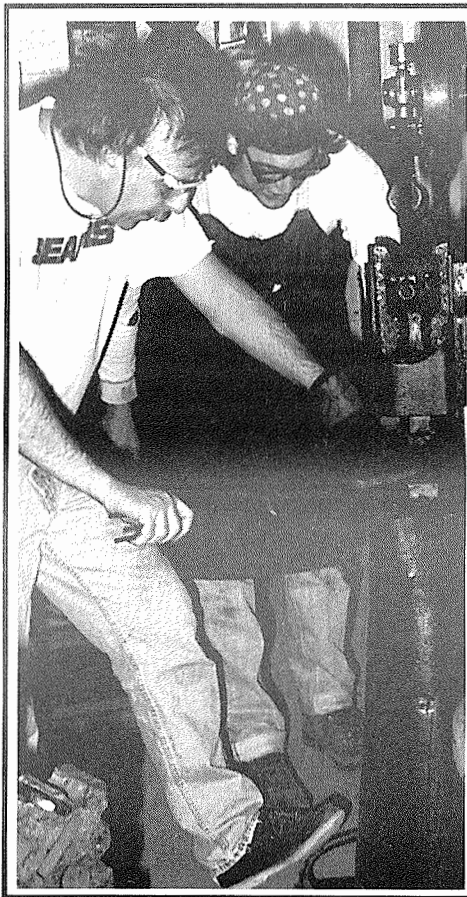


## GATE JOINERY WORKSHOP

Instructor Japh Howard  
at Don Kempers, "The Old  
Smithy Forge"



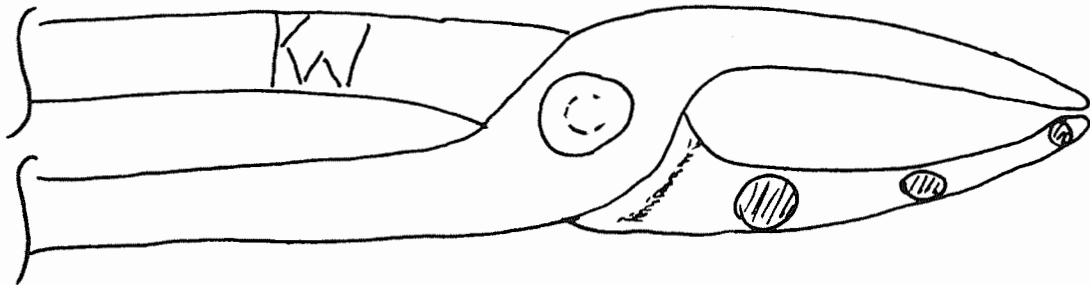
Workshop participants: Ike Bay, Bob Race, John Loeffler, Chris Paddelford, Dan Armstrong, Mike Rutledge, Jerry Kagele, and Don Kemper, Alice James, Dane Bjerklie. Not all pictured above.



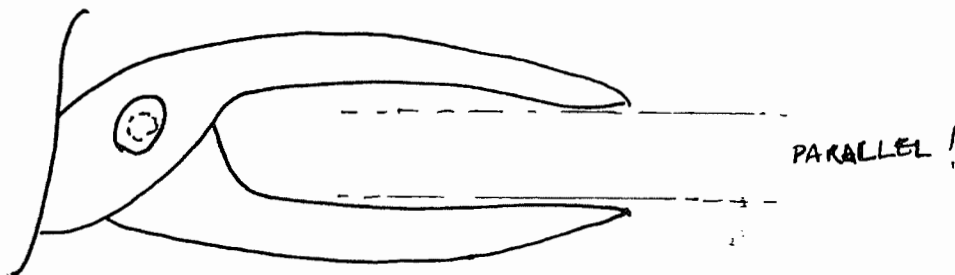
Photos by Rudy Pineau

## Ken White's Bow Pliers

There's nothing quite so handy as being able to pinch a little metal 'twixt thumb and index finger, especially when a little tweak here and there would even out the knobblies and wobblies in your latest creation. As most of us are not blessed with heat-resistant hides (Darryl Nelson excepted), some sort of iron intermediary is often required. Having surveyed my usual clumsy attempts at such a tool, and being too polite to mention it directly, Ken White was kind enough to run up a pair for me upon his return to his shop after our 10th anniversary bash. For those who missed the opportunity to fondle the real thing at the Spring and Fall conferences, I offer herewith a tracing of Ken's 'Bow Pliers'.



While a bit clumsy, belying the grace of the prototype, the drawing is fairly accurate as to scale. The extremely subtle reverse curve of the jaws near the tips is difficult to render in a drawing (and probably just as difficult in practice!). Look to your own Principal Digits for an example of what God (and Ken) intended. You'll know you've got it right when the tips of the jaws stay parallel throughout their opening range.



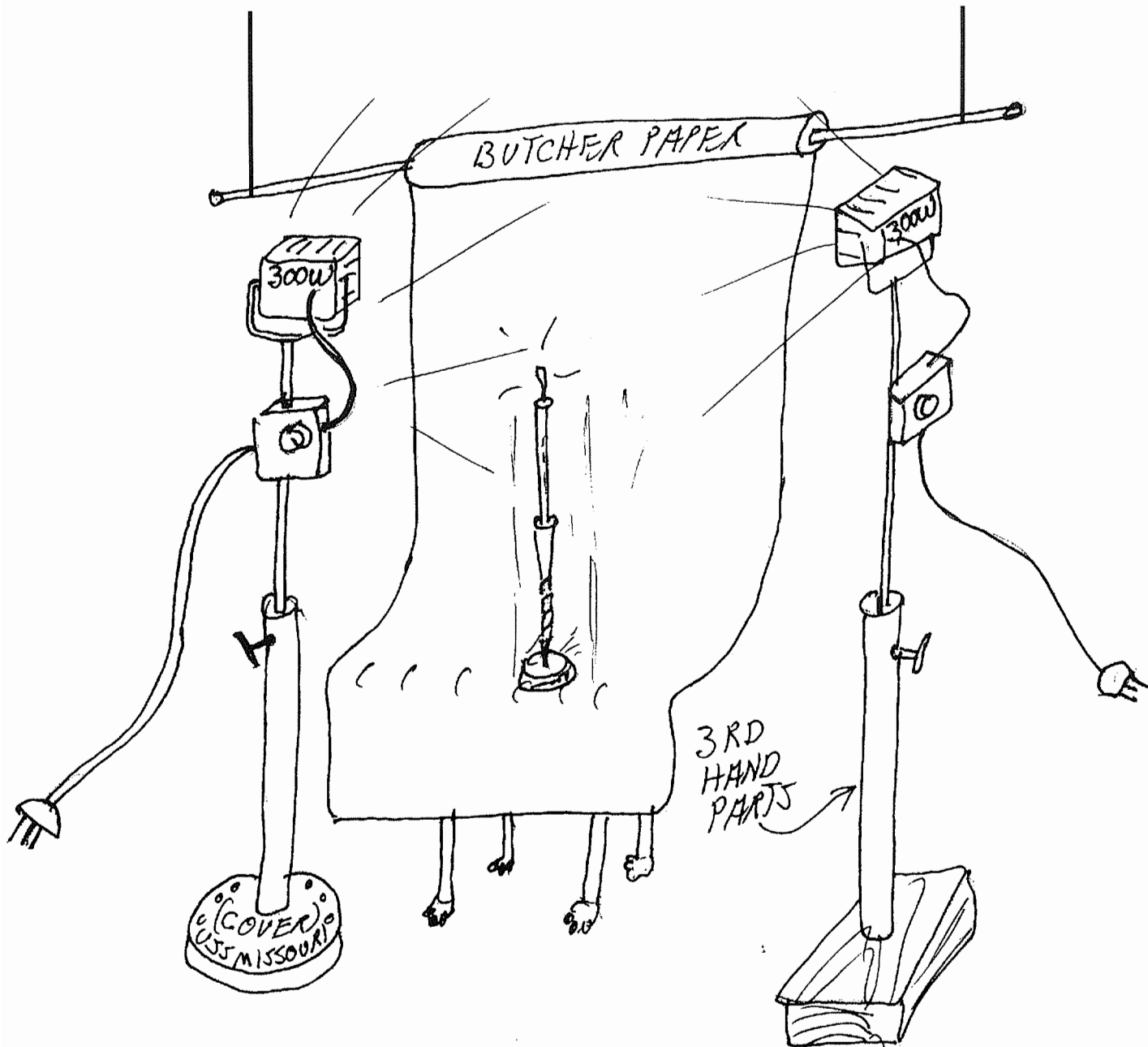
The original is forged of Cast Steel, a material much favored for tool-making in England, but, alas, not readily available here; you can probably make do with whatever is readily to hand, but let 'tough and springy' guide your choice.

Just as a hammer is a natural extension of fore-arm and fist, Ken's Bow Pliers are a natural extension of index finger and thumb; a pair belongs in every 'smith's kit.

-- Jack Slack

# Trial and Error Iron Photography

As seen at the Fall '95 N.W.B.A. Conference (sort of) but much more primitive.



**(300 watt quartz lights with 600 watt lamp dimmer)**

Tri X-ASA 400 film was used in a 35mm camera on tripod with remote release.

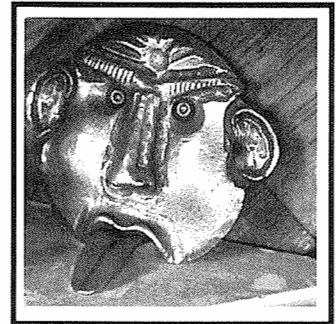
At the next conference we'll try 3 lights, reflectors, and maybe a light tent.

Thanks to all who gave advice at the conference. Ed.



# N.W.B.A . Archives

The N.W.B.A. has many photographs in some form or another—some here—some there; some “sort a” organized—some in shoe boxes, some identified—some not. Several years ago Lloyd Hedglin purchased and donated two photo albums in an attempt to gain the Association’s interest in preserving and recording the N.W.B.A. history in photographs. Many people agreed with him, but no one wanted to commit the time and energy to such a project. Ina Culberson has stepped forth and volunteered to identify, organize, and keep up to date any and all photographs donated to the N.W.B.A.. These then will become a part of the Archives and record the N.W.B.A. history pictorially.

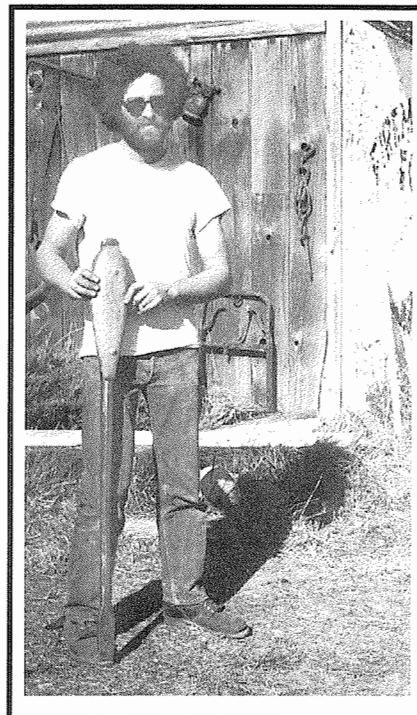
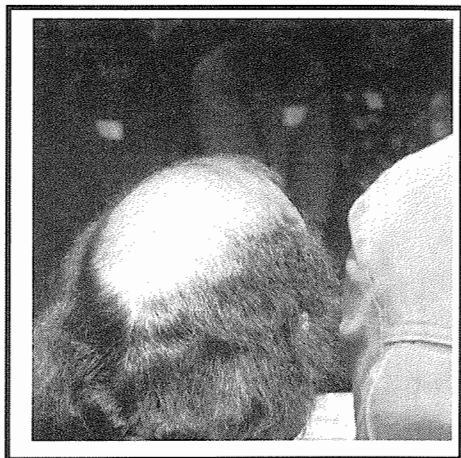


If you have photos and/or negatives (or slides) any size, shape or condition that you would like to donate to this project, please send them to Ina Culberson at Old Cedar Forge, East 220 Cronquist Road, Allyn, WA 98524, or bring them to a conference. When you submit a photo to the N.W.B.A., please identify each one with:

- Name(s)
  - Event
  - Date
- A "post it" (stickie) note attached to the back of each photo works best.



**Can you identify the places, time, people or things in these photos? Send your answers, theories, or stories to the Hot Iron News editors, get your name in the paper . . . big deal!**

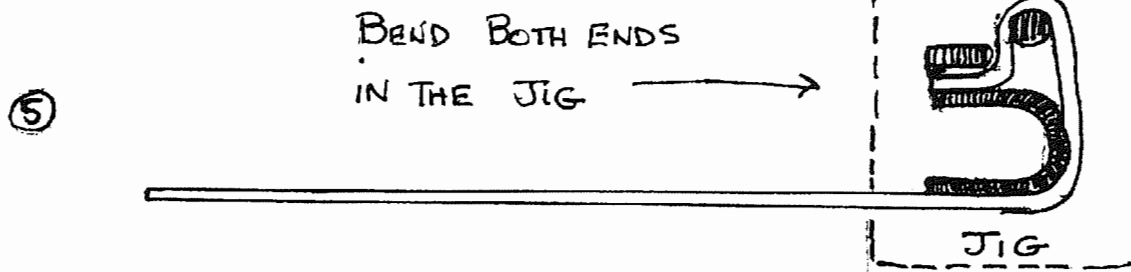
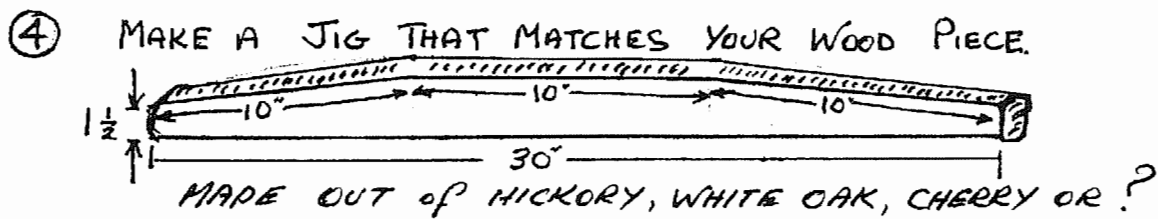
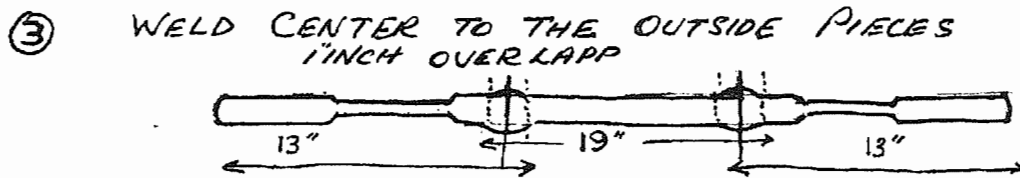
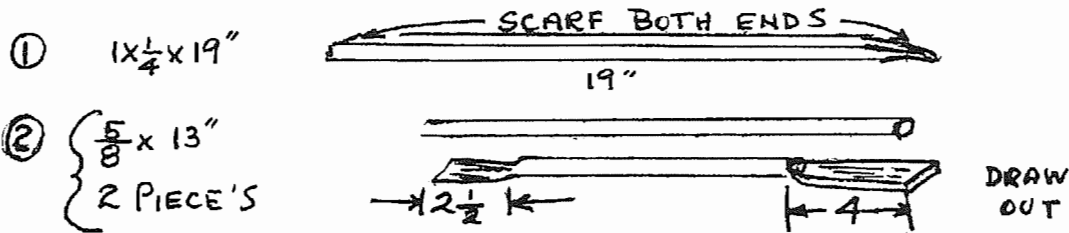
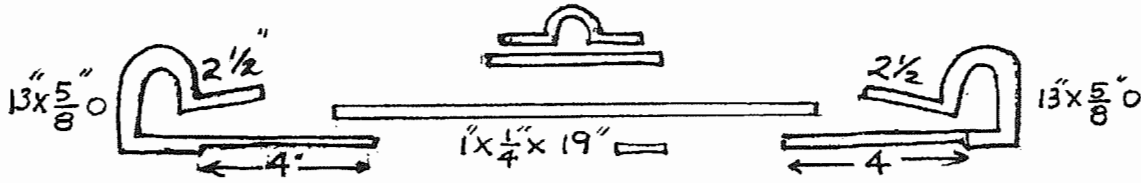


# Gary Eagle Demo Notes

By Terry Willis

## SINGLE TREE — FOR ONE HORSE (LOGGING)

START WITH 5/8 ROUND STOCK.



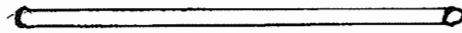




# Gary Eagle Demo Notes

⑥ MAKE 2 HOOKS THE SAME

9X 1/2" ROUND STOCK →



SHAPE



TUCK & WELD



SHAPE & DRESS



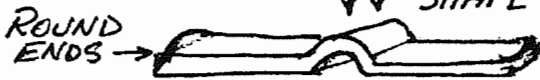
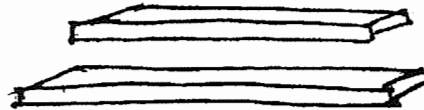
DOUBLE BEND



5/16 GAP FOR 5/16 CHAIN

⑦ BOLT HARDWARE.

8X1X 1/4 ONE PIECE  
10X1X 1/4 ONE PIECE



SHAPE

ROUND ENDS →

1/2" ROUND

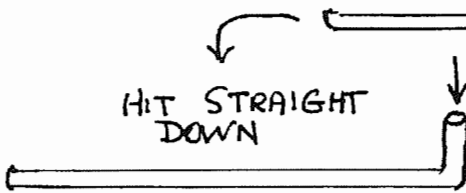
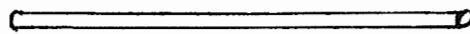


HARDIE



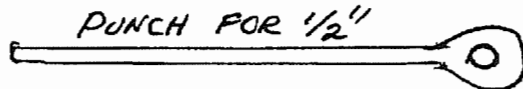
WELD 2 PIECES TOGETHER

⑧ CLEVIS → 17 OR 18 X 5/8 ROUND.

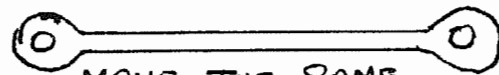
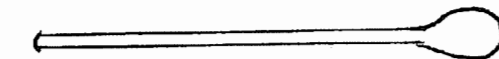


HIT STRAIGHT DOWN

TAKE A WELDING HEAT & BEND OVER 2"



PUNCH FOR 1/2"

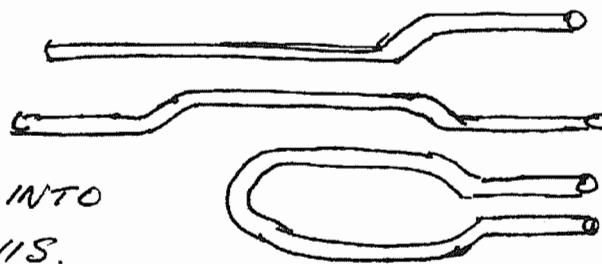
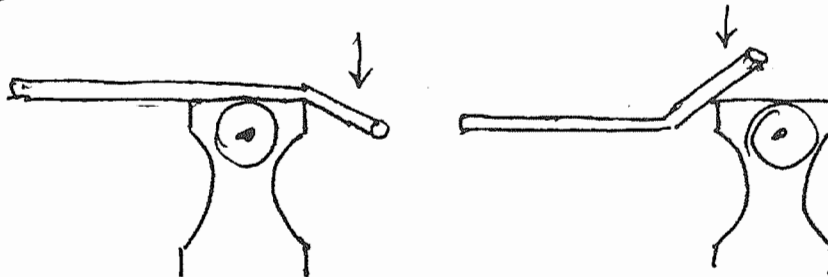


MAKE THE SAME ON THE OTHER END



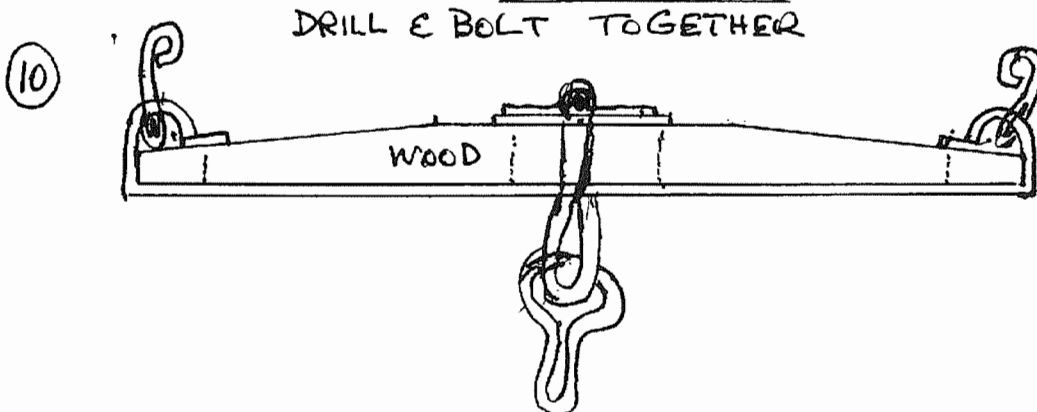
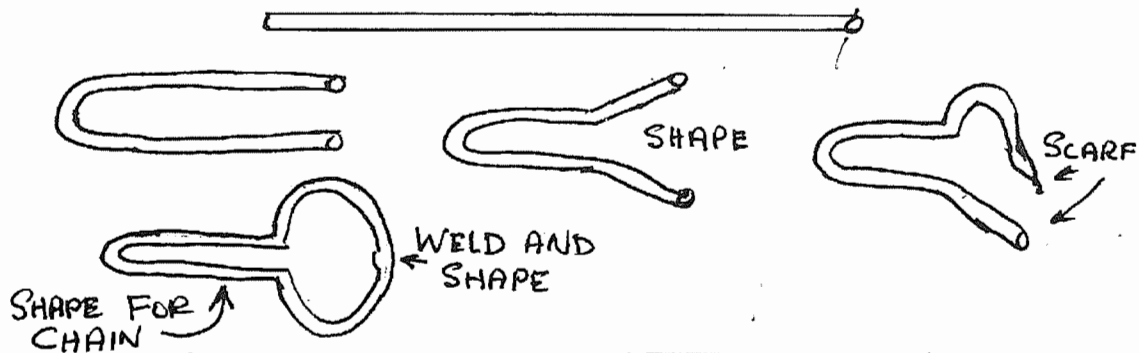
# Gary Eagle Demo Notes

⑧ CONT. DOG LEG BOTH ENDS.



SHAPE INTO  
A CLEVIS.

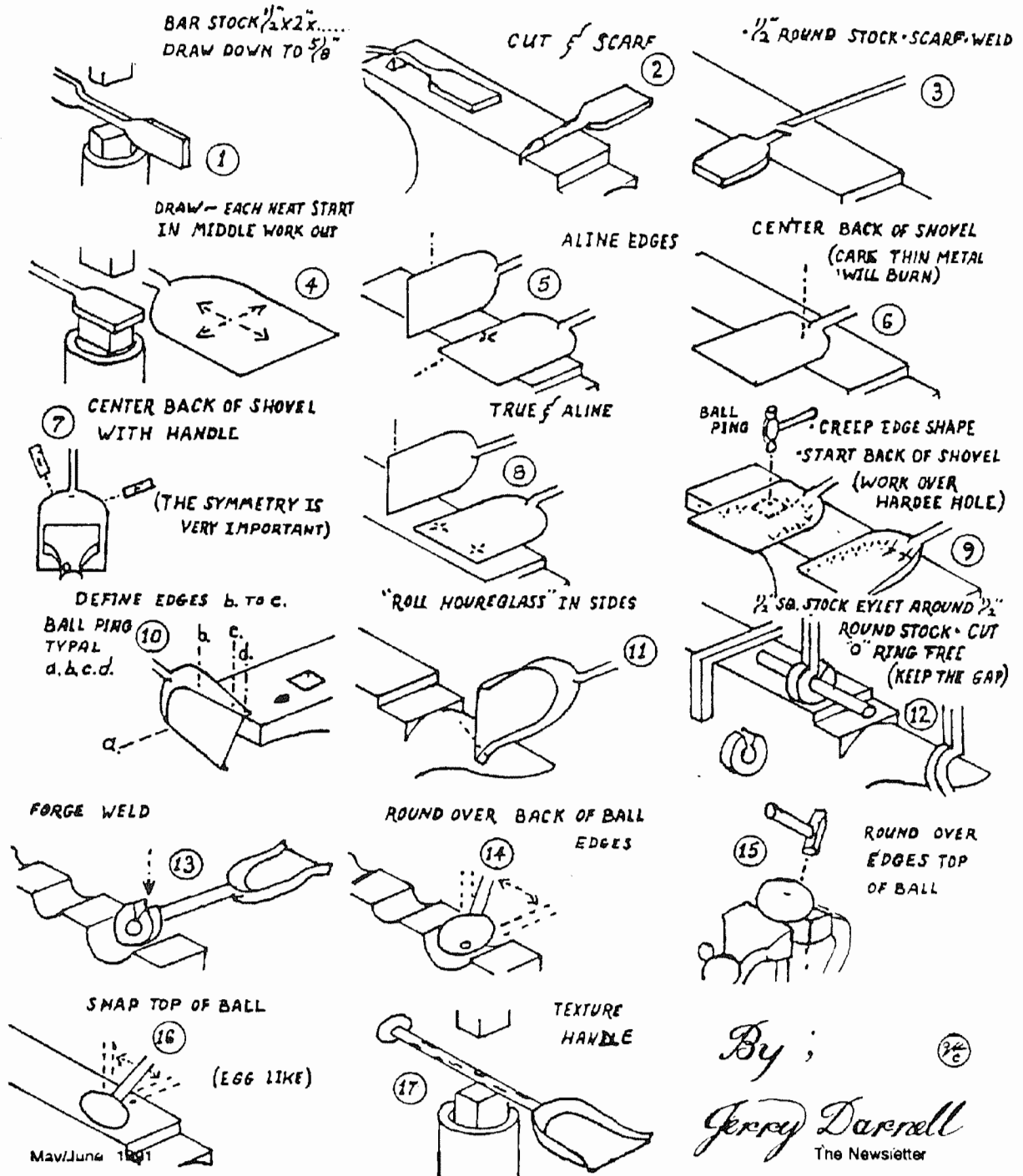
⑨ BITCH HOOK 5/8 ROUND X 18" OR 19"





# Fireplace Shovel

By Jerry Darnell  
Reprinted from The Hot Iron Sparkle  
North Carolina Chapter of Abana

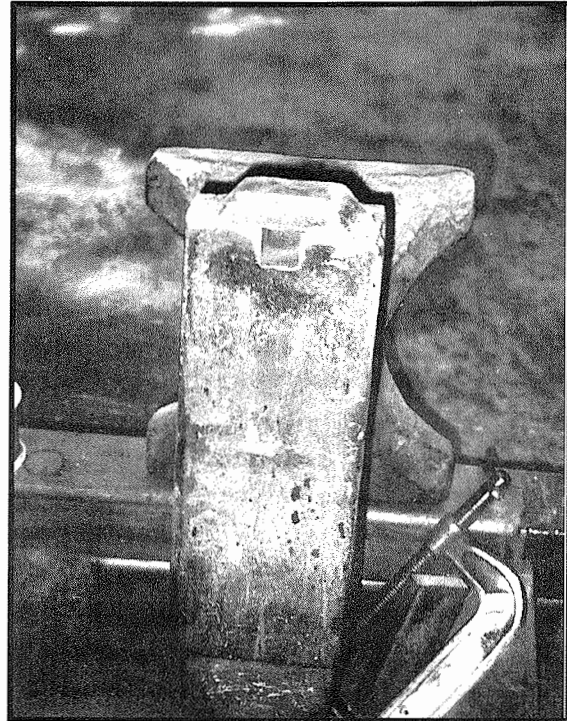


May/June 1991

# Broken Anvil: A Solution

by Ike Bay

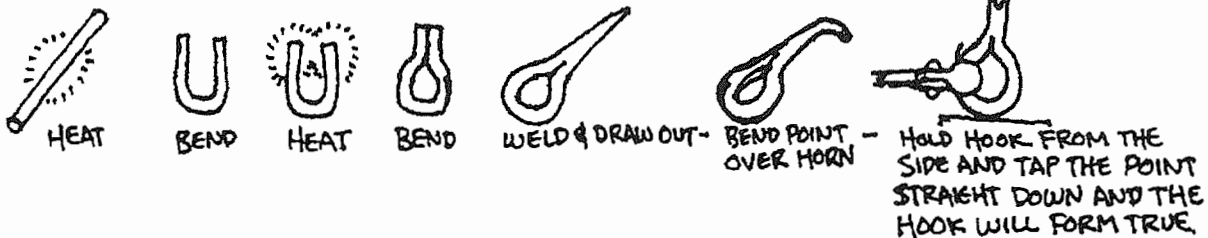
Broken anvils aren't hard to find and many of them are larger in size so the loss is even harder to take. This is how we "fixed it", a 348# Haybuddin anvil broken off at the hardie hole. The heel was ground off flat and square to face, then a new hardie hole was machined. The anvil is solid steel, a section of 3/4" W1 was cut to match the anvil heel. Anvil heel was preheated to 500 degrees F. The plate was welded to the anvil with alloy, ER 70s-6 size .035" Techweld using a wire feeder. The picture shows plate and anvil after the first few passes with the wire feeder.



# Singletree Hook

Drawn by Gary Eagle, submitted by Ike Bay

SINGLETREE HOOKS -  
 DEPENDING ON THE SIZE OF HOOKS DESIRED: USE 9 TO 16 IN. OF  
 EITHER 3/8" OR 1/2" ROUND MILD STEEL:





# 1996 ABANA Conference June 26-30, in Alfred, New York

## Demonstrators

Keith Kilby  
Tom Latane  
Tom Joyce  
George Martell  
Steven Walker  
Richard Sexstone  
Carl Close  
Bob Bergman

Dmitri Gerakaris  
Peter Happny  
Michael Bondi  
Toby Hickman  
Bobby Hansson  
Charles Lewton-Brain  
Francis Whitaker

**David Thompson (Three cheers  
for Dave)**

- \* Colonial Williamsburg Blacksmiths (Peter Ross, Richard Gunthrie, Kenneth Swartz, Jay Close, Jim Slining, Steve Mankowski and Shelton Browder.)
- \* Teaching Stations (George Dixon, Aaron Mittleman, Nana Showalter.)
- \* Computer Applications for the Blacksmith (Enrique Vega.)
- \* Albert Paley studio tour.

More info in future issues of the Hot Iron News or spend a few bucks and join ABANA!

**P.S. Your editors will be heading to Alfred in late June.**



# ABANA

## CHAPTER LIAISON NEWSLETTER NOVEMBER, 1995

**ABANA -P.O. Box 206 - Washington, MO 63090 phone/fax (314) 390-2133**

### ABANA BOARD ELECTION RESULTS

1,119 ballots were received at the ABANA Office out of 4,125 current members. Incumbent directors re-elected were Elizabeth Brim, Hans Peot, Tim Ryan, and Clay Spencer. Jim Patton (Illinois) was elected as a new director in the election. Thanks goes out to Charlie Schultz for taking the time to fill in a vacancy on the ABANA Board for a year, though he was not re-elected.

### ABANA ON-LINE THROUGH AOL

Frank Garland, Editor of the Upper Mid-west Blacksmith Association newsletter, sends the following instructions for accessing the ABANA net site through American On-Line (AOL):

First, in order to access ABANA's page through AOL you must have AOL version 2.5 for Windows (IBM) or 2.6 for Mac users (2.6 is still in the BETA test phase). You can download the new version for free off of AOL by entering the Keyword "Upgrade" and following the instructions from there. It is a free download, you are not billed for time spent downloading the upgrade. "Keyword" can be accessed by holding down the (CTRL) key and then pressing the letter "K" or by pushing the button on the tool bar that looks sort of like a

newspaper with a red arrow on it.

If you wish to view the page using Netscape, it can be done through AOL if you download AOL's WINSOCK.DLL (IBM/Windows only). It is available in the download libraries -merely search for "Winsock". You can download Netscape 1.1N off of several locations on the world wide web and view the ABANA page in all it's glory.

To access it through AOL's Web Browser, once you have installed the upgraded program, you can program the URL into the "favorite places" button, off line if you wish (it is on the far right of the tool bar across the top of the screen and is a small folder with a heart on it) and when you have logged on to AOL, you can click on the button and then double click on the name you gave the ABANA page and it will automatically bring up the web browser and go to the address. To access the Web Browser you can also enter the keyword "Web" and it will bring up the webbrowser and log in AOL's home page. To enter the URL into the browser, merely click on the address box at the top of the screen and enter the http:\\ etc. address and press (ENTER). The ABANA home page "URL" is <http://wuarchive.wustl.edu/edu/arts/blacksmithing/ABANA>. Keep in mind that the URL is case sensitive.

## SUGGESTION TO SHARE???

Looking for an oil that clings better than Stihl Bar Oil on your power hammer?  
Try Cushion Seal Bar Oil produced by:

Power Punch Products  
P.O. Box 46237  
Seattle, WA 98146

A paraffin based bar oil. \$6.99 per gallon available at Country Stihl in Vancouver, WA. or try your local saw shop.

Don Kemper



Membership Application  
 Mail to:  
**Northwest Blacksmiths' Association**  
**8002 N.E. Highway 99 #405**  
**Vancouver, WA 98665**

Membership Application:  New  Renewal  New Address?

Annual dues are \$20 (\$24 out of the country) and includes a quarterly subscription to **Hot Iron News**. Please make your check to N.W.B.A. and mail to the above address.

Date \_\_\_\_\_ Are you an A.B.A.N.A. member? [ ] YES [ ] NO

Name \_\_\_\_\_ Phone Number \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State Zip \_\_\_\_\_



**ABANA**  
MEMBERSHIP APPLICATION

*Includes a subscription to the Anvil's Ring and The Hammer's Blow*

NAME \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PROV/CODE \_\_\_\_\_ COUNTRY \_\_\_\_\_

**Indicate type of membership applying for:**

- |  |         |  |          |
|--|---------|--|----------|
| <input type="checkbox"/> REGULAR MEMBERSHIP    | \$35.00 | <input type="checkbox"/> FULLTIME STUDENT    | \$30.00  |
| <input type="checkbox"/> SENIOR CITIZEN (65+)  | \$30.00 | <input type="checkbox"/> CONTRIBUTORY MEMBER | \$100.00 |
| <input type="checkbox"/> OVERSEAS AIRMAIL      | \$70.00 | <input type="checkbox"/> PUBLIC LIBRARY      | \$25.00  |
| <input type="checkbox"/> OVERSEAS SURFACE MAIL | \$50.00 |  |          |

CHECK OR MONEY ORDER ENCLOSED (WRITTEN ON U.S. BANKS ONLY)

VISA  MASTERCARD

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CARD NUMBER

EXPIRATION DATE  
REQUIRED

--

Send to: ABANA, PO Box 206, Washington, MO 63090 Or phone for VISA/MasterCard by calling (314) 390-2133



# HOT IRON NEWS BACK ISSUES

	Winter	Spring	Summer	Fall	Amount
1995	\$8.00	\$4.00	\$4.00	\$4.00	
1994	\$8.00	\$4.00	\$4.00	\$4.00	
1993	\$4.00	\$4.00	\$4.00	\$4.00	
1992	\$4.00	\$4.00	\$4.00		
1991			\$4.00	\$4.00	
Postage \$1.00 each back issue					\$ .
<b>Total</b>					\$ .

No cash please

Make check payable to NWBA

Shipping Address: Name \_\_\_\_\_

Address \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Send requests to: **Gene Chapman**  
**P.O. Box 1038**  
**Kingston, WA 98346**

*Happy Holidays to all. Peg and I thank you all for your friendship, support, ideas, articles and photos for the Hot Iron News. This is a double issue like the 15th anniversary, winter 1994 issue. We will do one double issue a year and welcome any and all suggestions, criticisms or comments.*







# Blacksmith Craft Fair Stand

by Pete Stanaitis

About a year ago, my wife and I found ourselves wandering through a weekend market called "Art in the Park." There must have been 100 stands crowded into a space about 100 feet wide and a city block long. As we turned a corner, this blacksmith craft stand came into view. It stood out for several reasons.

1. It was ON the corner so it could be seen from several directions.
2. It was quite open in design. You could see right through it.
3. There were many styles of hangers and on every one hung an appropriate plant, bird house, etc.
4. Most notable, before we even saw the place, was the large number of people carrying things they had obviously purchased there. I mean, THIS PLACE WAS BUSY!
5. There was no blacksmithing going on inside.

I'd like to describe this stand so that anyone else selling their wares this way might take advantage of some of the ideas herein.

This stand was about 10 feet square and it was on an external corner within the twisting aisles so it was easy to spot. To add to the open effect, the stand even stuck out into the aisle a couple of feet.

The two inside walls were completely covered-with products arrayed on white pegboard to make the black iron products stand out. There was one set of open shelving in the center of the stand, located so the client could wander all through the place. Around the edges of the two open sides, many ground mounted hangers were driven into the ground and as I said earlier were holding plants, birdhouses, etc., wall mounted and ceiling mounted hangers were also mounted at and on the edges of the stand.

There seemed to be about a half dozen of each item displayed. This well-stocked look seemed to add to the professionalism of the place. Everything was priced so the sales person did not have to spend time answering those simple questions; which was good because she was constantly busy ringing up sales.

These folks apparently had plenty of extra inventory, too. As we walked by we saw a helper approach the stand with a cart laden with plant hangers to replenish the rapidly diminishing stock.

There was no attempt to wrap the purchases. I think this move further improved sales because I saw other wanderers asking the new owners of these treasure where they came from.

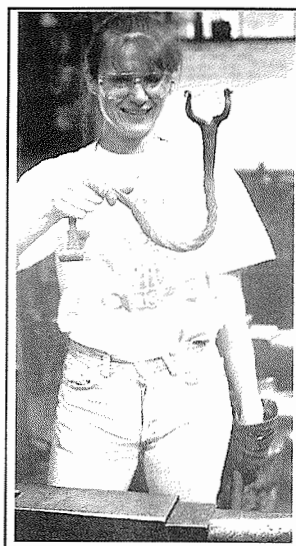
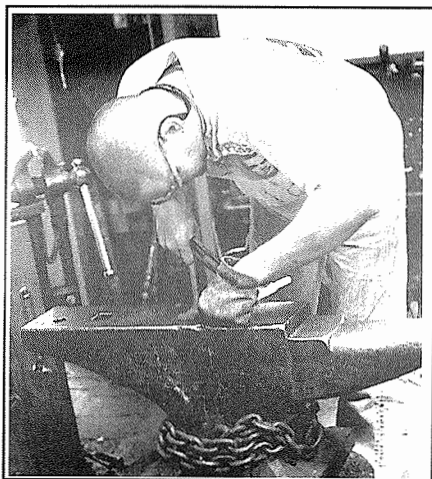
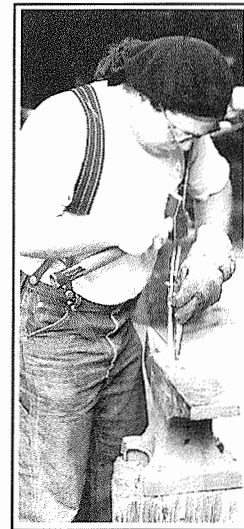
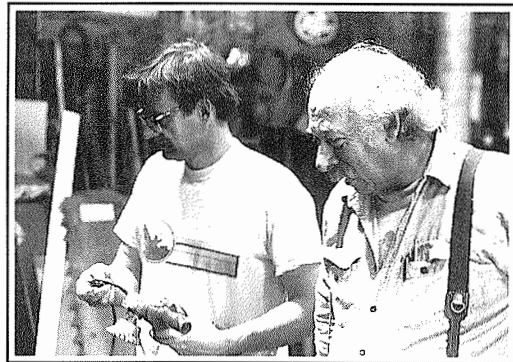
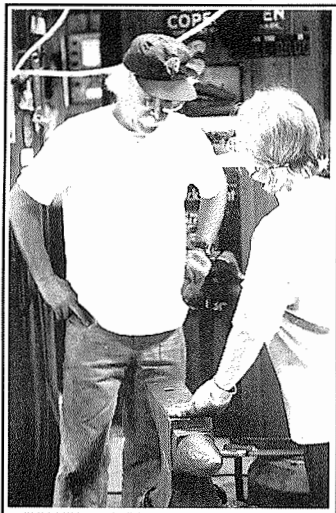
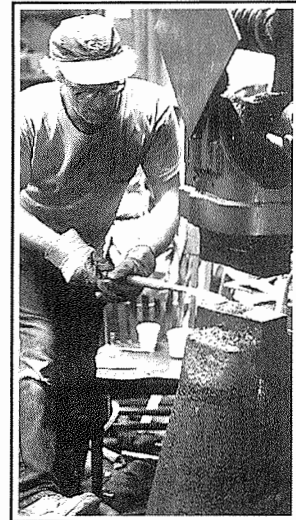
**Partial reprint from Guild of  
Metalsmiths, September, 1995**



# WOODEN BOAT SCHOOL NOVICE BLACKSMITHING CLASS



A novice blacksmithing class was held at Old Cedar Forge last August. Jerry Culberson and Russ Jaqua instructed. The five day workshop was sponsored by the Northwest School of Wooden Boat Building. Students learned the basics of blacksmithing then branched out and forged their own particular interests during the workshop.

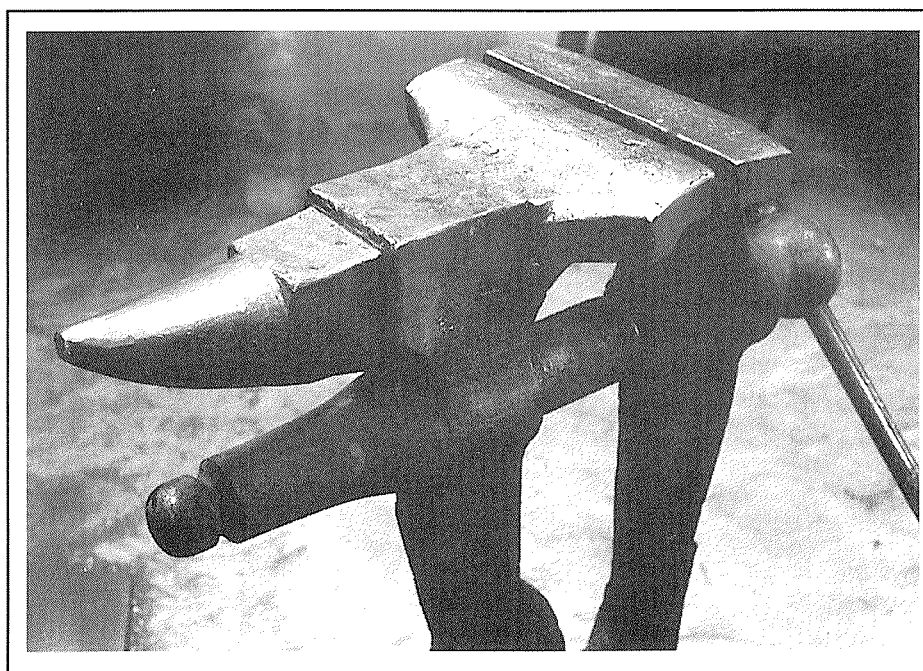
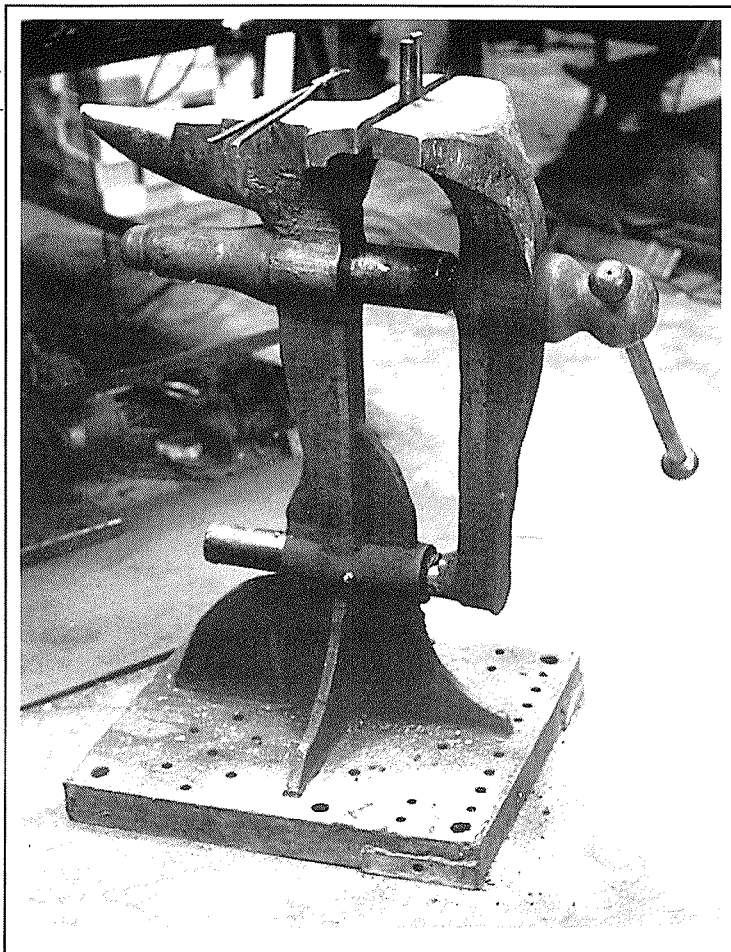


# Big Ugly

This tool, part anvil, part vise was discovered by Jerry Culberson in British Columbia, Canada. It originated at the Prince George Canadian Pacific Rail Road shop.

Height 36  
Weight 250# more or less  
Jaws 12"

It's a homebrew combination and looks real usefull. How many of you have something like this in your shop?



# Silver Sage Gates



Joe Elliot of Dry Canyon Forge, in Redmond, Oregon, forged the Silver Sage Gates for the High Desert Museum located in Bend, Oregon.

MATERIAL: Mild Steel

WEIGHT: 1500 lbs.

SIZE: 8' x 6' and 8' x 3' -- larger gate pivots in and smaller gate pivots out.

FRAME: 1" x 2"

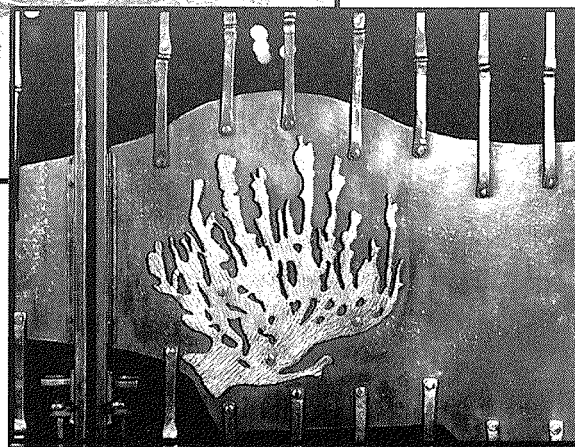
UPRIGHTS: 2" square forged to 1.25".

BIG PLATES: 3/8" flame cut, rusted and textured.

SILVER SAGE BUSH: 3/8" plate flame cut, textured with silver patina.

JOINERY: Mortise, tenon and rivets

Gate by Joe Elliot  
Located in High Desert  
Museum Bend Oregon



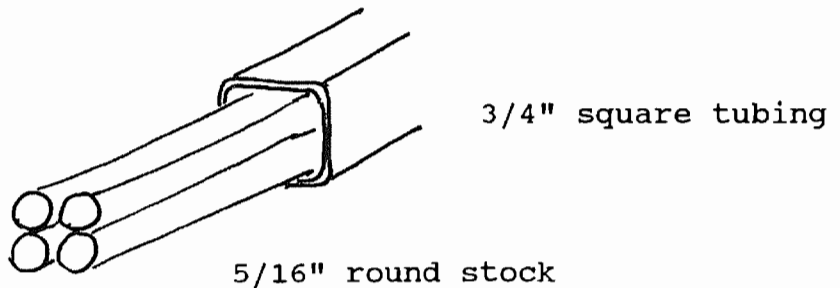
Gate Detail



# Darryl Nelson Troubleshooting Workshop

Notes by Joe Elliot

## BASKET HANDLE

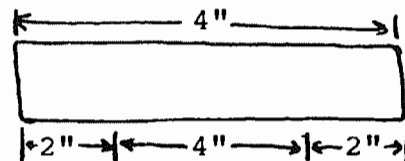


The four rounds used in a basket handle are stacked and put into a piece of tubing (thin wall) and forge welded. Flip and forge weld the other end. This eliminates the need to arc weld or wire the ends together.

## HAMMERS

8" of 1 1/2" square 4330

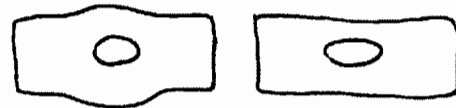
Measure and mark as shown



Punch eyes at 2" marks and drift



If you want a straight sided hammer, punch round eyes and forge swellings back into line.



Forge peen ends on hammers



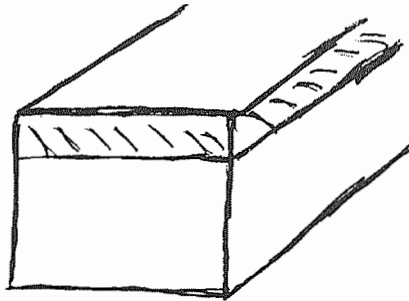
Cut hammers apart, dress faces and temper.

This info gleaned from a past Hot Iron News Ed.

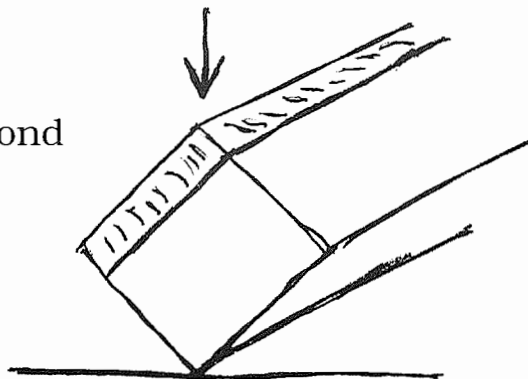
# Steeling Iron

The Peter Ross Way by John McKenzie

Weld small piece of steel atop iron



Forge on the diamond



Flatten



Clean up



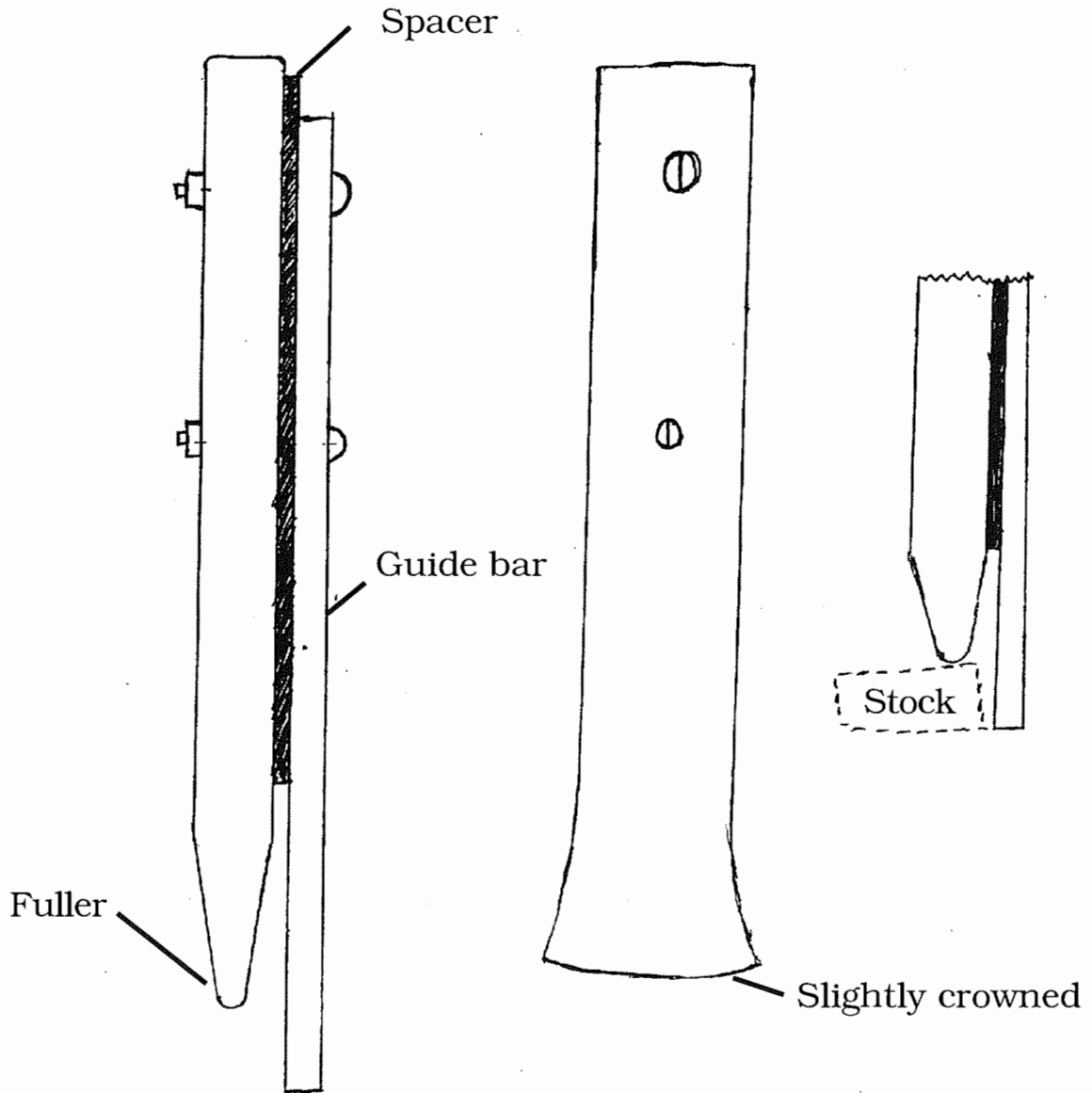
Forge blade, hit steel side up



John Mc Kenzie attended a Peter Ross Workshop last year and shared this tidbit.

# Groover

By Ryan Johnson



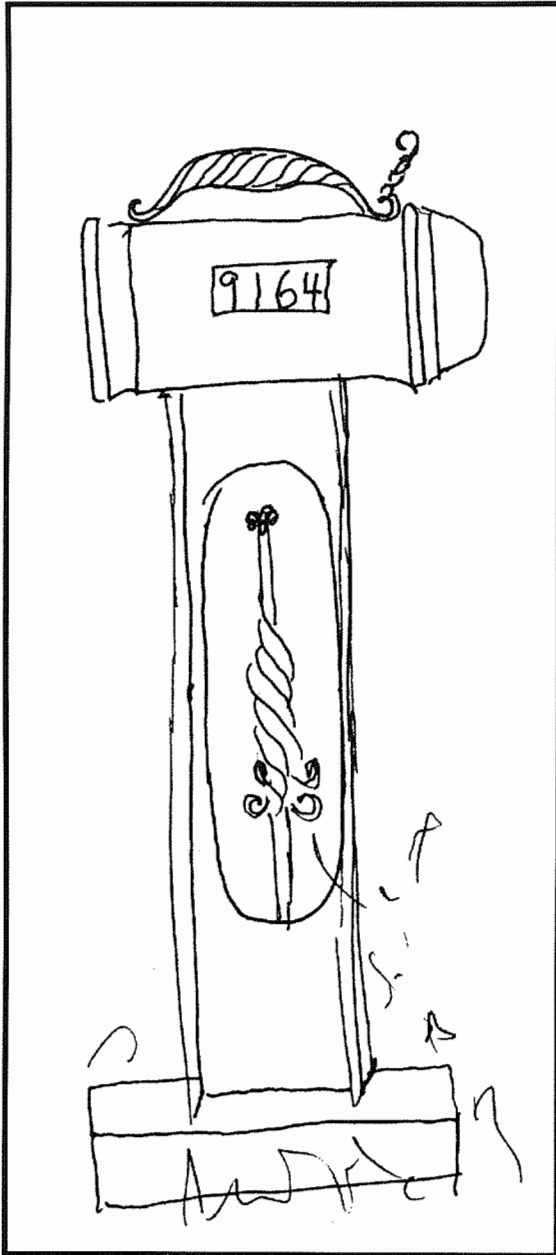
Ever have a problem getting a groove straight? Here is a tool that will solve the problem. The guide bar assures you are grooving straight, and the shim allows you to groove any size stock. The design was taken from one of Dr. Becker's tools at the Whitaker Workshop.

Reprinted from the Appalachian Area Chapter



# Stein Road Mailbox

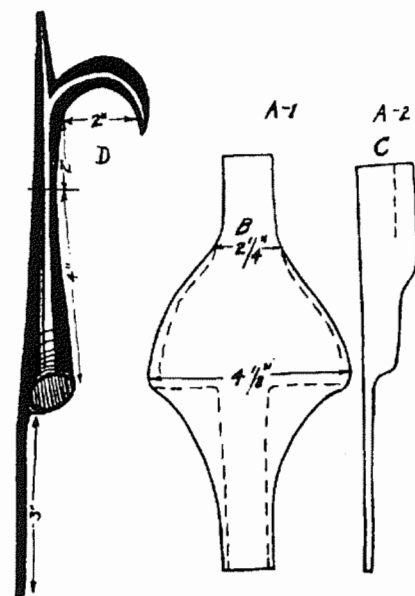
Don Grammond moved to 9164 Stein Rd in Custer WA. He says, "out of town and back in the woods". Don forged and fabricated a mailbox to match the road name. It's made from 8" pipe 16" long mounted on "I" beam with basket twist ornament in the "I" beam. This drawing was made from the photo and isn't detailed as the real mailbox. Well done Don.



Boat Hook rewritten from The American Blacksmith, November 1914

# Boat Hook

Forge a piece as shown in A-1 (A-2 is looking at it edgewise). Cut on dotted lines scarfing the edges, roll up and weld at B, then turned back the tong and weld up the socket. This would be done on a mandrel suited to the work. Next, split and work up the points at C. If directions are closely followed it will look something like D when finished. The points can be left sharp or a small ball forged on them. If sharp, it is best to weld a steel point in them to prevent them from burring up. These dimensions will make a socket for a 1 3/8" hole.



A BOAT-HOOK IS EASILY FORGED WHEN YOU KNOW HOW

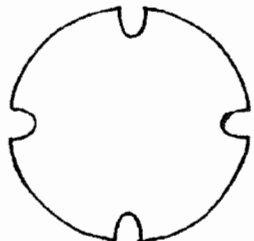




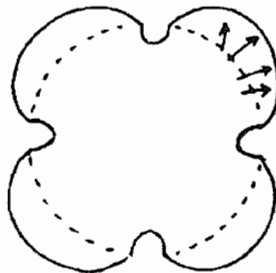
# Decorative Rosettes

Chris Worsley sketches from Walt Scadden demo

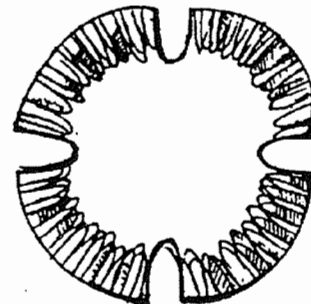
- DECORATIVE ROSETTES - FORGED FROM IRONWORKER PUNCHOUTS



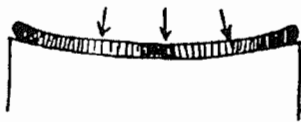
FULLER FOUR PLACES ON DISC



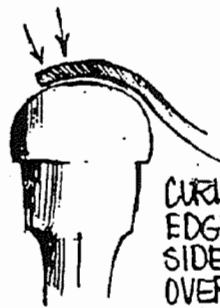
FORGE OUT "MOUSE EARS" WITH ROUND FACED HAMMER



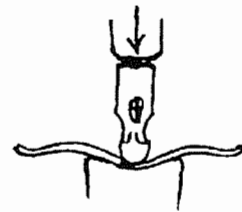
WIDEN SECTIONS AND TEXTURE WITH CROSS PEEN



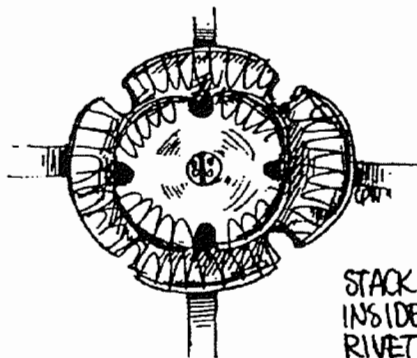
DISH WITH TEXTURED SIDE DOWN ON WET WOOD BLOCK.



CURL OUTSIDE EDGES, TEXTURE SIDE DOWN, OVER DOMED STAKE



RETURN TO WOOD BLOCK, AND USE BALL PEEN HAMMER AS PUNCH TO SINK CENTER OF ROSETTE



STACK A SMALLER VERSION INSIDE A LARGER ONE AND RIVET THROUGH CENTER.

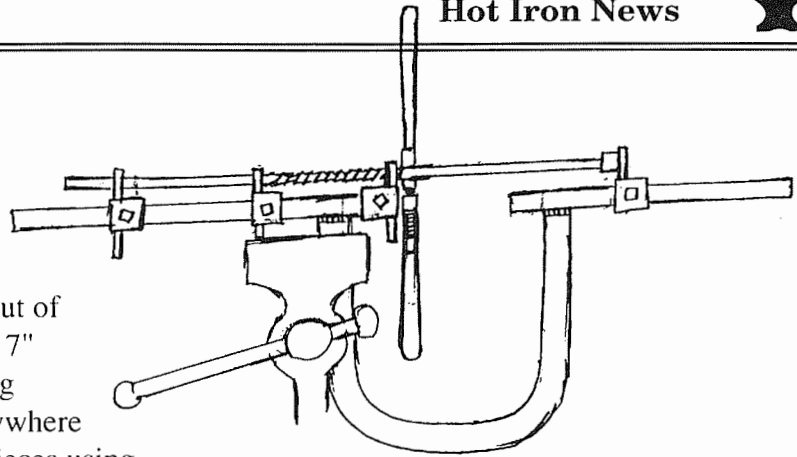
Reprinted from

The Newsletter the Blacksmiths' Guild of the Potomac Nov/Dec 94

# Hot Twisting Jig

by Berkley Tack

Here is a hot-twisting jig that I made out of necessity when I was faced with putting a 7" twist in several hundred 5/8" square railing pickets. It works great for fire tools or anywhere you need to make a number of identical pieces using stock from 1/4" to 3/4" square.



To build it, you first bend a piece of flat bar edgewise into a "U", then weld it roughly in the center of a length of square tubing. Then cut a piece of this tubing about 6" long out of the middle of the "U" to allow a wrench to rotate there. Cut a few short pieces of tubing that slide snugly over the long pieces, and weld two sizes of notched tabs on top and bottom of each piece and a set screw on the side.

Putting two tabs on each slider gives you more combinations with less pieces. Make a stop piece with a couple sizes of pipe sections welded on for the stock to butt into and rotate within. (This helps hold the stock straight.) Lastly, get an old monkey wrench and weld a handle on the head for a two-handed grip.

## The setup for twisting is as follows:

Cut a square bar of, say, 1/2" diameter and any length desired. With soapstone, mark the length and location of the desired twist on this bar and use it to locate where the various sliding pieces go on the jig. Put a 3/4" notched piece nearest where the wrench will be. This will be one end of the twist. Then, slide a 1/2" notched piece where you want the other end of the twist. Then put a 3/4" notched piece near the end of the square bar to act as a rest. Finally, slide the stop piece on the jig at the other end, such that the nose of the bar to be twisted will slip into the short piece of 3/4" pipe and stop.

Tighten all set screws, and you're ready to go. Fire up the gas forge, and slip the marked bar through until the part to be twisted is centered in the fire. Set up a stop on the far side. I use a piece of angle iron C-clamped to the hearth. When the bar heats where desired, (this may take some adjustment of the stop) slide several more bars in to heat.

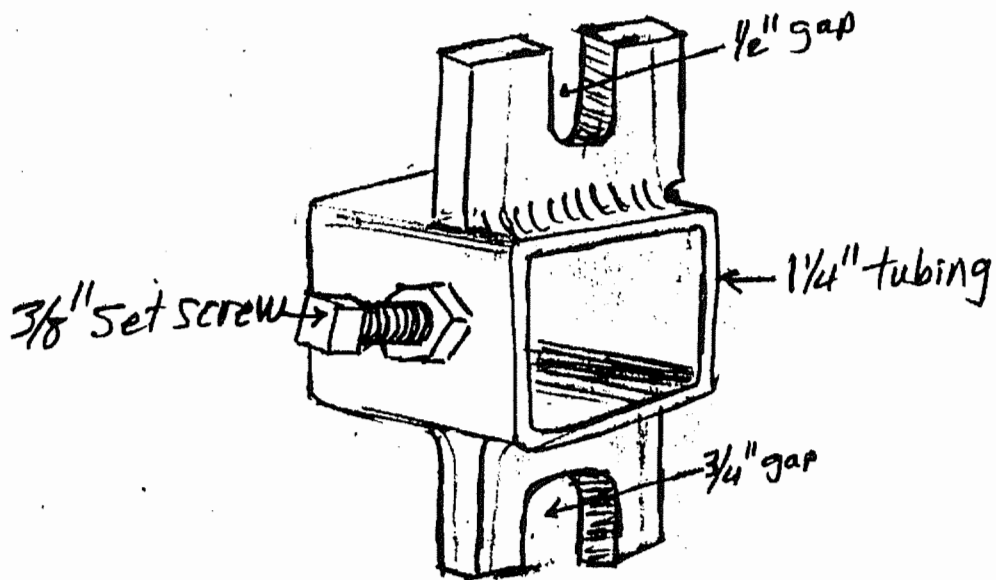
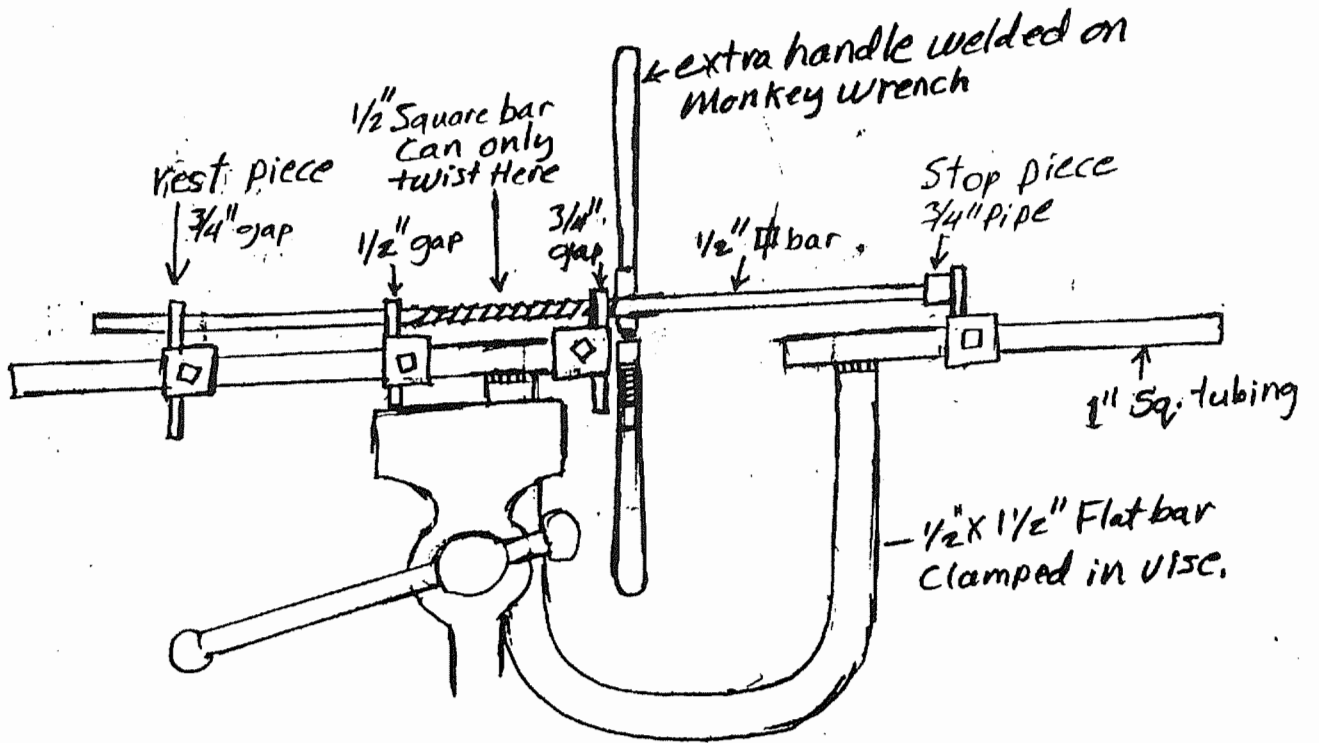
Take the hottest bar out and slip its nose into the short piece of pipe on the stop piece. Then lower the bar into the other three notches. Grasp the bar with the double-ended wrench 1/8" from the 3/4" notched piece and turn evenly, counting turns until twist is tight enough. Adequate length of heat is important for an even twist, and, even then, a can of water nearby is handy to cool the tighter parts. With the proper heat, though, water is usually not needed. Sight the piece for straightness, and lift out. It is possible to make several hundred identical pieces in a day with this jig, but I use it even for small amounts because of its ease of operation and uniform results.

Berkley Tack is a full time smith living and working in Rainier OR.

Reprinted from The Hot Iron News, Fall 1991.



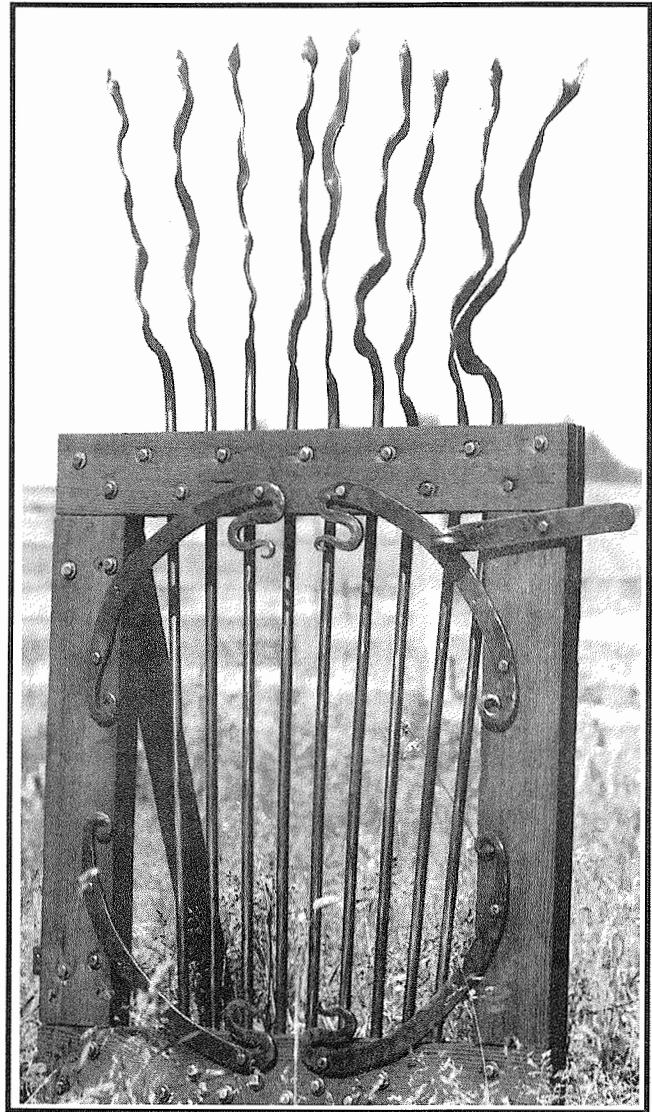
# Hot Twisting Jig



## Canadian Corespondent

Wade Wade, or W2, is the N.W.B.A.'s Canadian field correspondent, plus farming, raising cattle, blacksmithing, buys and sells blacksmith supplies, old implement iron and is a consultant for the government on it's money problems. W2 resides in Mt. Lehman, BC.

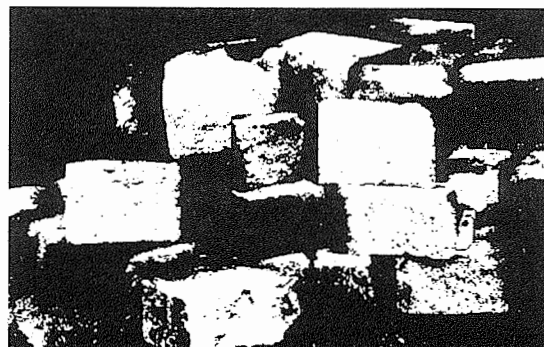
Wade made this gate for a neighbor in June 1995. Nice looking gate, eh. I'll bet this is one gate your dog doesn't jump over.



**USED  
BRICK  
SALE**

- A large quantity of used bricks.
- Reasonably priced
- Some 1/4s
- Some square corners

*contact Wade Wade, Canada*





# FALL SPRING SALE

YOUR CHOICE ☆  
ONE LOW PRICE ☆  
3 FOR ~~\$5.00~~ <sup>\$4.00</sup> OR \$1.25 each  
LAST CHANCE ☆  
See Wade?  
(NO CANADIAN CURRENCY)



Use an old coffee pot to zone quench.

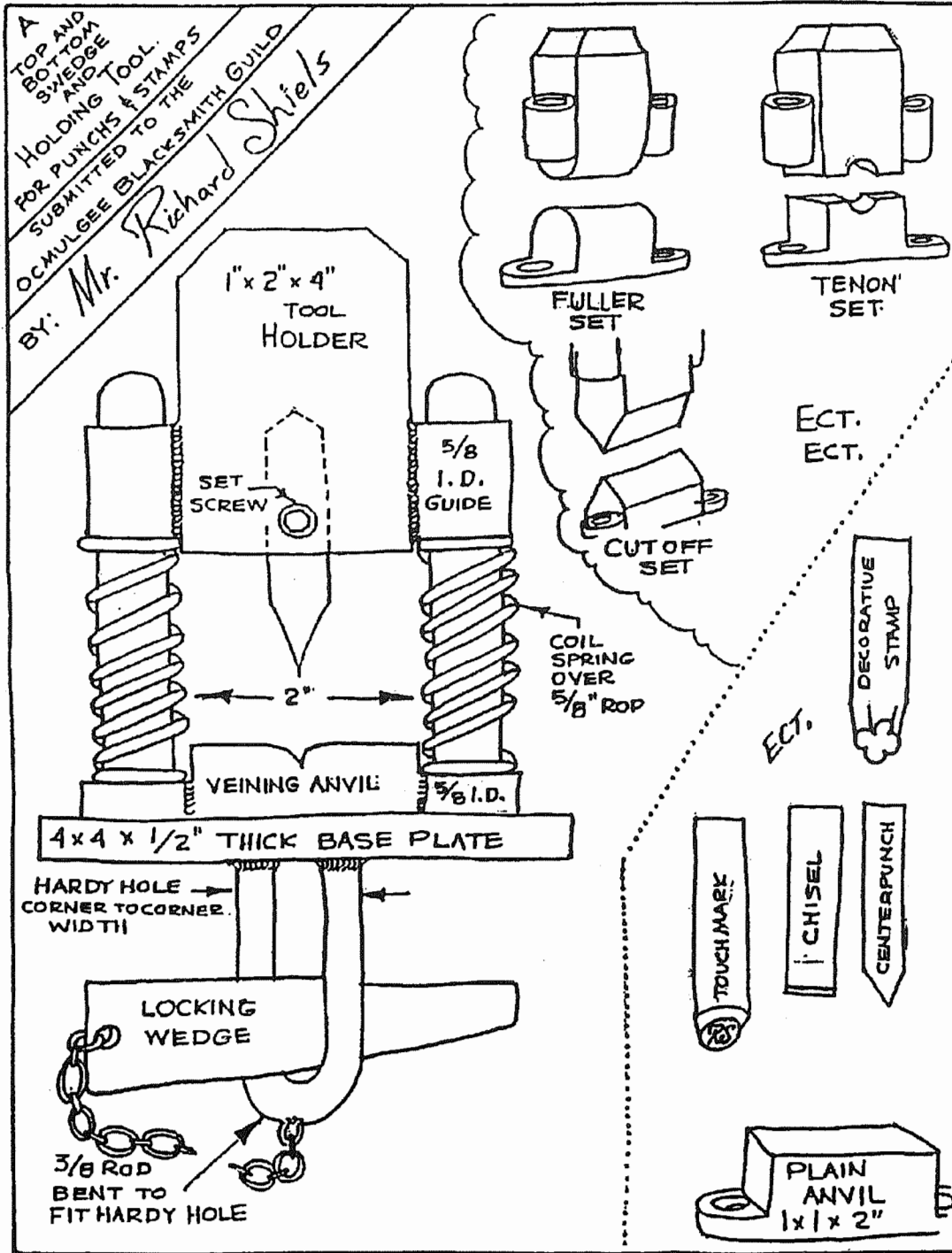
These springs are from old time farm hay rakes. The steel is probably in the 1070-1090 range, it makes pretty good knives, springs and such. I bought the three for \$4.00, just can't resist getting the best deal from Wade.



This is "new iron on old van" that Wade made in August 1995. Nice touch. All you coin collectors note that he deals in Canadian currency sometimes and speaks US dollars too.

Terry Willis, also from British Columbia is a new N.W.B.A. board member. Look for his article on the conference demonstrators. . . if you've already seen it, ignore this .

# Swage/Fuller/Holder



Reprinted from the Ocmulgee Blacksmith's newsletter #20 May 94



# Lets Sing

## At the Forge

Seymour Barnard  
*From the French*

(T. M. III, p. 204)

V. Miry



At the forge, fellows! Blow, blow ye bel-lows! Steel sostout, glow-ing,  
Blow the forge, fellows! Roâr, roar ye bel-lows! Now the base met-al



Yields,yields to you. Fire, the old foe-man, Aid - eth thy blow, man;  
Glow's like a star. Then,your sledge ply-ing, Stars, stars are fly - ing,



Tem-pests here prisoned, Man's work shall do. Then swing ye, ring ye,  
Me - te - ors ti - ny Near and a - far. Then swing ye, swing ye,



Sparks fling ye! Haste ere the har - vest is past. Then  
Sparks, wing ye! Joy giv-eth strength to the blow. Then



swing ye, ring ye, Steel bring ye! Friends are the fire and the blast.  
swing ye, swing ye, Stars fling ye! Long as the met - al shall glow.



Met - al rude, Shape - less and crude, On our forge is glow - ing; *D.C.*



Ham - mers fly; Flames leaping high; Migh - ty bel-lows blow - ing.

Thanks to Dave and Babe Brandon from Stephenville, Mt. for sharing this song. It was copyrighted in 1915 in "The Progressive Music Series" for primary and intermediate grammar school.

### For Sale in Montana

Like New 5'X5' Acorn Tables with 2" square holed. \$750.00 each  
Call Wiesmann's 1-800-334-5964 Ask for Jimmy Flipowitz.  
Submitted by Dave Brandon



## Everdur "655" Rod

(SILICON BRONZE)  
CDA 655

### NOMINAL CHEMISTRY

Copper: 95.80%  
Manganese: 1.10%  
Silicon: 3.10%

### SPECIFICATIONS

AMS-4615C  
ASTM-B-98 Alloy 655  
ASTM-B-124 Alloy 655  
MIL-C-17516 A, Comp 1  
QQ-C-591 E, Comp 655

### AVERAGE PHYSICAL PROPERTIES

#### ROUND

Temper: Hard  
Tensile: 85,000 psi  
Machinability Index: = 30 (F.C. Brass=100)  
Electrical Conductivity = 7% IACS  
Elongation = 20%  
Yield = 55,000 psi

#### RECTANGULAR

Hot Rolled  
Tensile: 50,000 psi  
Machinability Index: = 30 (F.C. Brass=100)  
Electrical Conductivity = 7% IACS  
Elongation = 35%  
Yield = 15,000 psi

## Round

12 Foot Random Lengths

Inches	Pounds Per Foot	Pounds Per 12Ft Length	Inches	Pounds Per Foot	Pounds Per 12 Ft Length
1/4	.181	2.18	7/8	2.222	26.67
5/16	.283	3.40	1	2.903	34.84
3/8	.408	4.90	1-1/4	4.536	54.43
7/16	.555	6.67	1-1/2	6.531	78.37
1/2	.726	8.71	2	11.610	139.32
5/8	1.134	13.61	3	26.13	313.56
3/4	1.633	19.60			

## Rectangular

8 to 12 ft. lengths sheared or sawed from stock

(Weight in pounds per foot)

Thickness Inches	WIDTH - INCHES						
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
1/8	.463	.579	.695	.927	1.159	1.391	1.854
3/16	.695	.869	1.043	1.391	1.738	2.086	2.781
1/4	.927	1.159	1.391	1.854	2.318	2.781	3.708
3/8	1.391	1.738	2.086	2.781	3.476	4.172	5.562
1/2	1.854	2.318	2.782	3.708	4.636	5.562	7.416
5/8	2.317	2.896	3.476	4.635	5.793	6.953	9.270

This copper-silicon alloy is characterized by high strength and exceptional resistance to corrosion. It has the strength and toughness of mild steel, is excellent for both hot and cold working and is readily welded. It is widely used for pole line and marine hardware.

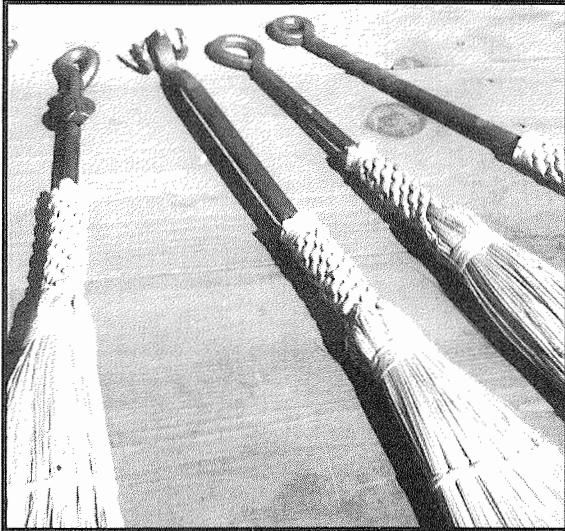
Available at Alaska Copper and Brass Seattle 206-623-5800 Portland 503-238-7171

Wonderful for forging, casting or for finding buried pipe if you're in the witching business. Price was about \$5.00/ pound a couple years ago. ed.



# CLASSIFIED

Hand made brooms for Your Iron



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P.O. Box 1182  
Grants Pass, OR  
97526-1182

**WANTED:** Heavy 6" or 8"  
Post Vise. Buy or trade good  
4" or 5" vise. Also want old  
wagon wheel tire roller.  
Don Kemper, (360) 887-3903

**Blacksmith's Gazette**  
950 South Falcon Rd.  
Camano Island, WA 98292

## Peddinghaus Tools

Quality, balance and design.  
Free price list  
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(707) 778-8261

## Hanson Rivet & Supply Co.

2727 San Fernando Rd.  
Los Angeles, CA 90065  
(213) 227-4000  
FAX (213) 221-5300

## THE TOWN TOO TOUGH TO DIE

Gary McCauley, who operates the Tombstone Smithy in, you guess it, Tombstone, is in a fix. He has more business than he can handle. Tourists from all over the world are hot for hand crafted work and Tombstone seems to be the place they all land. Gary is offering space in his shop for anyone in the association to exhibit samples or stock. Put your price on it and he'll mark it up 40% and sell it for you. He needs candle holders, brands, fireplace sets, book shelves, you name it. All price ranges are selling he's connected with galleries world wide! If you have something you'd like him to show for you, contact him at

Tombstone Smithy  
600 E. Fremont Box 222  
Tombstone, AZ 84638  
(502) 457-2326

(printed from Arizona Artist Blacksmith Association)

## THE DIEHL STEEL CO.

CINCINNATI, OHIO

YOUR SOURCE FOR  
ALLOY STEEL FLATS

**1-800-543-1566**

P.O. BOX 17010  
800 ROSS AVENUE  
CINCINNATI, OHIO 45217

## Magazines/Books/Videos

### ANVIL Magazine

*"Voice of the Farrier  
and Blacksmith"*

Rob Edwards, Publisher  
P.O. Box 1810  
Georgetown, CA 95634  
(800) 94-ANVIL

### Books on Blacksmithing and Decorative Ironwork

Norman A. Larson  
5426 E. Highway 246  
Lompoc, CA 93436  
(805) 735-2095

### Rocky Comfort Forge and Video Productions

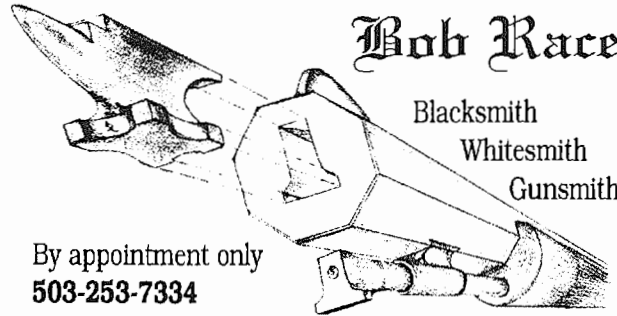
Rt. 3 Box 3678  
Highway 267 South  
Quincy, Florida 32351  
(904) 627-7949



### **Hale the Tinker**

P.O. BOX 21  
ST. ALBANS, WV 25177  
(304) · 727-0530

Offering 2-hour VHS video training film on beginning tinsmithing, plus shop drawings of everything built during the making of the film. \$48.00



### **Bob Race**

Blacksmith  
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By appointment only  
503-253-7334

### **Jere Kirkpatrick's Valley Forge & Welding**

30-C E. San Francisco St.  
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*Tools & Supplies  
for the Artist  
Blacksmith*

**FREE GIFT WITH  
EVERY ORDER!**

Has a 40 page catalog with mostly farrier supplies and some blacksmithing tools. It's worth sending for. I'm going to order a can of Sure Weld (forge welding flux). Joe Elliott says it doesn't leave as much residue as Borax. Ed.

### **SUMMER STAINLESS SPECTACULAR**

FROM NOW THRU LABOR DAY ENJOY THE FOLLOWING SPECIAL STAINLESS PRICES

#### **CR ANNEALED ATS-34**

SMOOTH CLEAN FINISH

ALL 1/8" & 5/32" BAR SIZES ARE 20% OFF OUR REGULAR PRICES \*

#### **HR ANNEALED ATS-34**

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# **LITTLE TREE DESIGNS**

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Hand spun copper and brass components for the artist/blacksmith. Select items from our line, add your own forged handle and you have created beautiful high-end gifts or craft items for sale at your studio, craft shows, or galleries. Heavy weight—made from .040 thick brass or copper. Suitable for functional use or as decorative items. Comes with information on the maintenance and care of brass and copper.



# Naven Restoration Specialties

6802 SW 33rd Pl. P.O. Box 19045  
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 (503) 245-3659  
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## Mild Steel Bar Stock



### Half-Rounds



Size	10' Bar	20' Bar
1/2"	\$5.50	\$11.00
5/8"	8.25	16.50
3/4"	10.95	21.90
1"	19.45	38.90
1 1/4"	30.50	61.00
1 1/2"	43.75	87.50



### Half-Ovals



Size	10' Bar	20' Bar
3/4" x 3/16"	\$6.90	\$13.80
1" x 1/4"	8.75	17.50
1 1/4" x 5/16"	13.50	27.00
1 1/2" x 5/16"	19.50	39.00
2" x 1/2"	34.50	69.00

**All Prices FOB Portland ... or  
 NWBA Convention**


**5 or More Bars of Any One Size  
 Subject to 10% Discount**



# Happy Holidays



Dick Naven brought his twin screw chain driven vise for us to admire. Note the wheels on the base for ease in moving. This vise was used at the main demo site.

<p>HOT IRON NEWS          GENE CHAPMAN, EDITOR          P.O. BOX 1038          KINGSTON, WA 98346</p>	
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