

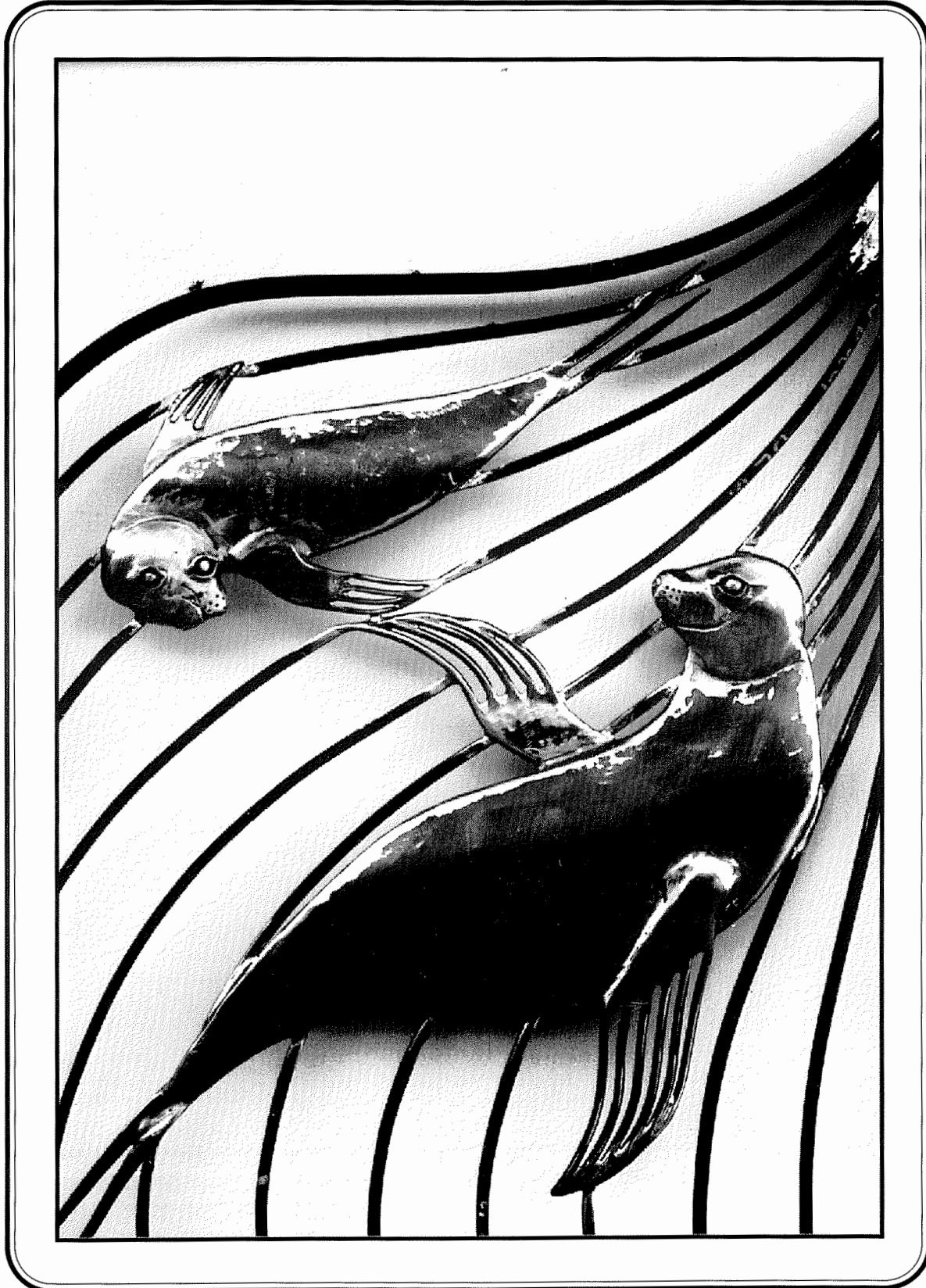
CHAPTER OF ABANA

Hot Iron News

VOICE OF THE NORTHWEST BLACKSMITHS ASSOCIATION

Fall 1995

\$4.00 US





IN THIS ISSUE

Armchair Blacksmith 18

Bladesmith Corner 19

Bladesmith Workshops Review 14

Fall Conference 9

Fall Conference Demonstrators 12

Hot Tips 22-41

Japh Howard Workshop 20

Letters to Editor 7

N.W.B.A. Ballot 8

N.W.B.A. Board Minutes 5

N.W.B.A./ABANA Membership Form 42

Prez Says 4

Scholarships 16

Tidbits 6

Whatsit 44

Women As Blacksmiths 17

Workshop/Classified 43

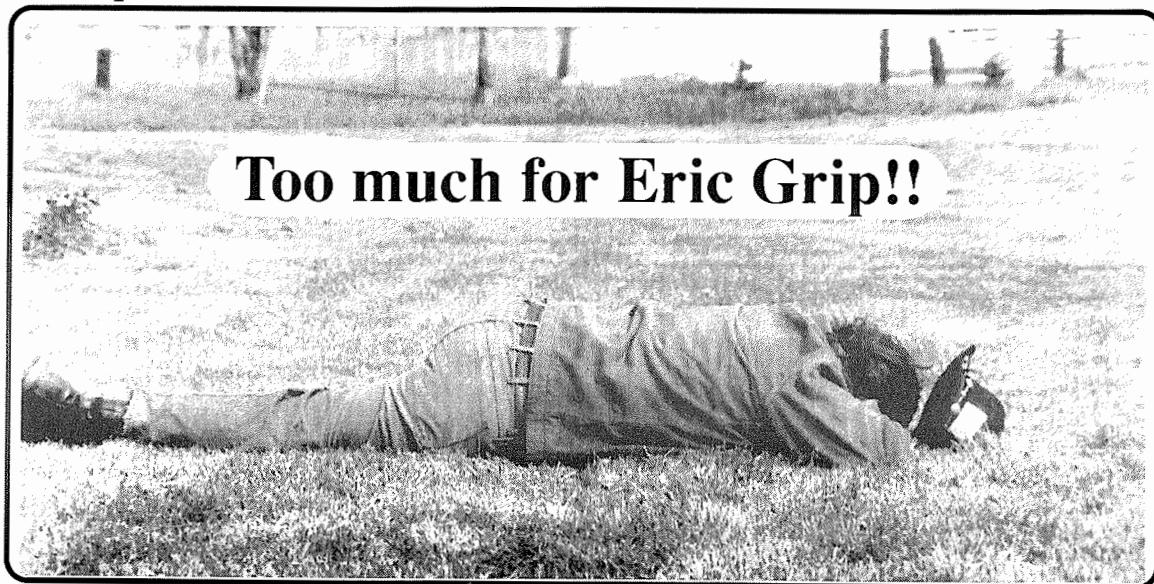


Photo by somebody



Hot Iron News is the official quarterly publication of the Northwest Blacksmith's Association. Submission of materials for the magazine is eagerly encouraged and may be sent to the editor, Gene Chapman. Dead-line for submissions are February 15, May 15, August 15 and November 1. Other ABANA Chapters, blacksmith associations, and non-profit educational metals oriented groups have permission to reprint non-copyrighted materials found within the covers of *Hot Iron News* as long as credit is given to the authors, the magazine and NWBA. The Northwest Blacksmith's Association, and the Hot Iron News disclaim any responsibility or liability for damages or injuries as a result of any construction, design, use, manufacture or other activity undertaken as a result of the use or application of information contained in any article in the *Hot Iron News*. The *Hot Iron News* makes every effort to insure the accuracy of the information contained in the articles published herein, but the use of any material or information is solely at the user's own risk. The *Hot Iron News* assumes no responsibility or liability for the accuracy, fitness, proper design, safety or safe use of any information, technique, materials, tool design, use, etc., contained herein.

N.W.B.A. OFFICERS AND BOARD MEMBERS 1994

President

Grant Sarver
2311 Ross Way
Tacoma, WA 98421
(206) 572-7460

Vice-President

Joe Elliott
128 East Antler
Redmond, OR 97756
(503) 548-2564

Secretary

Dennis Prince
695 S.W. Bear Dr.
Madras, OR 97741
(503) 475-6505

Treasurer

Kent Rudisill
2520 SW 45th St.
Corvallis, OR 97333
(503) 753-2543

Editors

Gene & Peg Chapman
P.O. Box 1038
Kingston, WA 98346
(206) 297-2495

Director

Don Kemper
20100 N.W. 61st Ave.
Ridgefield, WA 98642
(206) 887-3903

Director

Barney Coski
5323 12th N.E.
Tacoma, WA 98422
(206) 927-0362

Director

D.J. Stull
P.O. Box 63
Winthrop, WA 98862
(509) 996-2703

**N.W.B.A.
8002 N.E. Highway 99 #405
Vancouver, WA 98665**

FRONT COVER

Detail of front gate at private residence in Anacortes, WA by Paul Thorne. This gate is 5' x 7'. The repousse seals are approximately 3' and 4' in length; the wave is 5/8" sq. forged iron.



Been just a wee bit negligent in getting my column to Gene on time. I think this one will get there just in time!

Well, Hi there boys and girls! As you may or may not know, this is my last column as President of the N.W.B.A. My term of office is over with the elections to be held at the fall conference. I chose not to run again and the new board will be electing new officers at the fall board meeting.

I've had a lot of fun the last four years as your prez. (Gee, has it really been four years?) I feel that it's been a pretty smooth four years with solid growth in membership and good participation at conferences. Our bank account has climbed to a comfortable level and we have had a terrific lineup of demonstrators. We have an active scholarship program and a regular program of workshops. Our newsletter is second to none. Aw, hell! Let's face it; we've got the best damn newsletter in the whole country. Many thanks to Gene and Peg Chapman!

I hope lots of you make the trip to Winthrop for the fall conference. You'll see some of the most beautiful scenery the northwest has to offer on the trip over and one of the neatest old-timey pseudo-old-west-towns this side of Podunck Junction! We got way-cool demonstrators! We got food! We got an auction! We got Joe Elliott! (Who?) We got tail-gators! We got blacksmiths up the kazoo! We got - - - well, you get the idea! Come on down and play in the dirt! One thing we've been doing new at the conferences is setting up an impromptu forging station where anyone can play or schedule a short demo. Show off! Dink around! Or just chew the fat.

Anyone interested in my 75 lb. air hammer should be at the conference to see one in action! \$3,650.00 delivered! This is a tremendous striking hammer that runs on a little 3 to 5 HP compressor. No apologies offered for this blatant commercial plug. Tongs, swages and hammer tools also available.

Thanks to everyone for all the fun we've had these last four years. See you at the fall conference.

Grant (Oh, go ahead and call me "Prez") Sarver



NWBA BOARD MEETING

April 21, 1995

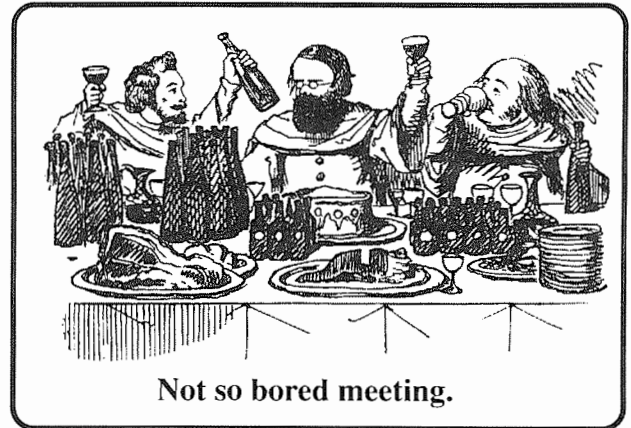
Meeting called to order at 6:40 PM. by President Grant.

Present were: Joe, Gene, Grant, Kent, Dennis, D.J. and Don. Barney was absent. Guests were Darrell Nelson and Japh Howard.

Minutes of Sept. 29-30, 1994 were approved.

Job descriptions are still in limbo until all board members get their job descriptions to Kent.

Fall Conference will be at Winthrop, Washington on October 13, 14 & 15. We will have a gallery that will be open to the public and everyone is invited to bring something to show or sell. There will be security for the gallery and each person will be responsible for the sale of their items. D.J. is going to run an ad in the local paper. He is also going to check with Mike Linn about the possibility of having this tent available to use as a covered area for demonstrators. Joe is going to check on demonstrators. It was decided we would raise the demonstration fee to \$1000.00 plus reasonable transportation costs. Kent is going to check with a travel agent about taking care of travel arrangements for the Association.



The "Hot Iron News" is being printed at 700 copies and we will stay at that number. Gene is going to have copies of "American Blacksmithing" printed and available for \$7.50 each. Copies of "Nautical Iron Works" will be printed at \$12.50 each plus binders. We will also be putting together a new member package that will include bylaws, roster of members, schedule of events, latest issue of "Hot Iron News", list of board members. The cost of the package should be about the same as an additional issue of Hot Iron News.

Nomination for Board Members will be held Saturday at the General Meeting. Joe, Grant and Kent's terms will be expiring in the fall of 1995. Grant and Joe will not seek re-election. It has been proposed that the by-laws pertaining to board members be updated (see summer edition of the Hot Iron News) from seven board members to a core of 7 board members with an additional 2 board members for every 100 general members over 300.

Dennis checked into the insurance policy and everything looks good except that the retroactive date is on a "claims made coverage only basis" and needs to be changed to a "by occurrence basis." Dennis will check into getting it changed.



TIDBITS

N.W.B.A. CASH FLOW REPORT January - June, 1995

INFLOWS	
Spring Conference	\$3,868.10
Dues	494.50
Workshop	-511.87
Inflows - other	<u>402.50</u>
TOTAL INFLOWS	\$4,253.23
OUTFLOWS	
Editor Expenses	\$3,433.50
Expense	406.60
Refund	15.00
Treasurer Expense	10.61
Outflows - Other	<u>349.00</u>
TOTAL OUTFLOWS	\$4,214.71
OVERALL TOTAL	\$38.52
CHECKING BALANCE	<u>\$10,938.83</u>

OOPS - -

SORRY ABOUT THAT #@!?

Our printer, Blue Sky of Poulsbo, WA. has steadfastly printed the Hot Iron News with great success for almost two years. Yep. . . Murphy's Law prevailed and a few Hot Iron News were several pages short, or mixed up. Let us know if you received a bad issue and we'll send out the correct one to you. Sorry for any inconvenience.



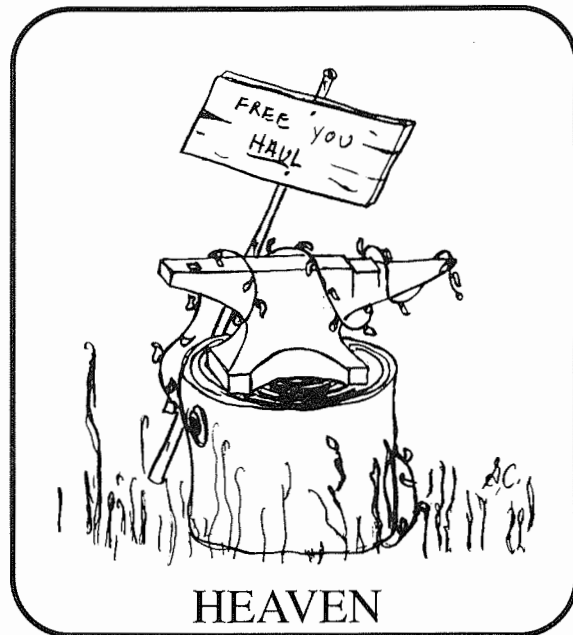
Your editors, Peg & Gene

TO N.W.B.A. Board Members, Members at Large and All Students:

I don't know how any of you were persuaded to present me with a lifetime membership and plaque at the Spring Conference, but it certainly is appreciated. However, I do hope you realize that I am not quite ready to die in order for it to become the usual posthumous award. I have every intention of continuing to teach classes at my forge as I have in the past and, of course, free advice will continue to be offered. Free room and board will always be available to wayward blacksmiths, as the occasions arise.

I am deeply honored. Thank you one and all.


Jerry Culberson





Letters to the Editor

Dear NorthWest Blacksmiths Association:

First a sincere and heartfelt thank you! To all of you at the 1995 NWBA Spring Conference.

I consider it quite an honor to be invited to demonstrate for your group and to do this twice is a humbling and grateful experience.

Many individual thanks are in order (I probably can't remember them all - - getting old): Grant Sarver and Hoa, Joe Elliott, Dave, Rebecca and sweet baby Ellie Thompson, Dennis and Mary Prince, Jerry and Ina Culberson, Darryl Nelson, Japh Howard, Wayne Goddard, Gene Chapman, Kent Rudisil, Don Kemper, Bill Carrell, Jerry Henderson, Gordon Long, Wade 2, Dave and Babe, Bill, John, Roy, Steve, Rick, Mathew, Larson, Berkley Tack, Gary, Helen, Dan, Joe, Jon, Rusty with the arm brace, Harold and all the other people who's kindness, hospitality, advice and questions are remembered, but my 48 year old brain can't remember all their names. THANK YOU LOTS!!!

I have always respected and admired your group -- solid, reliable, intelligent, hard working. Keep it going! I will be sending the sterling silver spoon I started along for your archives.

Good luck, good hammering, share the camaraderie, the knowledge, the love of smithing.

Jay Burnham-Kidwell

P.S. A special thanks to all the women who provided all the work, time, kept by daughter involved and put up with me. You're loved.



Robert di Grappa, Fairbanks, Alaska
 Bill Denny, Okanogan, WA
 Steve Howell, Kent, WA
 George Hettich, Leavenworth, WA
 Arnie Miller, Craig, Colorado
 Bryan Chaix, Ashland, OR

Warren Olney, Grants Pass, OR
 Raymon Baker, Olympia, WA
 Dan Ballard, Tacoma, WA
 Daniel Howe, Seattle, WA
 Mark Condes, Fairbanks, Alaska
 Otts Stockade, Biggs, CA

It was brought to our attention that in the previous issue we listed new members from Alaska using the abbreviation for Alabama. We apologize to our northern neighbors for that faux pas. Your red faced editors.



N.W.B.A. Nominations **BALLOT**

There are three positions open on the N.W.B.A. Board. Please vote for five candidates. The top three will be on the board and the next two will be alternates. Ballots should be returned to Dennis Prince (address on inside, front cover) or ballots will be accepted until 12:00 noon on Saturday October 14 at the Fall Conference registration desk.

MATTHEW TILTON
Seattle, WA
Occupation: Full time Blacksmith
Blacksmith for 4 years

KENT RUDISILL
Corvallis, OR
Occupation: C.A.D. operator
Blacksmith for 18 years

TOM RICHARDS
Oregon City, OR
Occupation: Millwright, machinist
Blacksmith for 10 years

TERRY WILLIS
Aldergrove, British Columbia
Occupation: Lineman for B.C. Hydro
Blacksmith for 6 years

TIM PILCHER
Pineville, OR
Occupation: Hobby Blacksmith
Blacksmith for 3 years

BERKLEY TACK
Rainier, OR
Occupation: Full time blacksmith
Blacksmith for 15 years

RALPH HINDS
Albany, OR
Occupation: Retired Industrial Contractor
Blacksmithing since age 2

NORTHWEST BLACKSMITH ASSOCIATION BY-LAWS

As Approved OCTOBER 5, 1991

PROPOSED AMENDMENT:

"Board of Directors, page 2"

"The Board of Directors of the Association shall consist of seven members, *plus two additional directors for each 100 N.W.B.A. members exceeding 300 (i.e., 300 members = 7 directors . . . 400 members = 9 directors, etc.)*

Board terms will be split so that there are four *nearly equal, with an even number of* seats open for election one year and *three an odd number* the following year. The members ---- same cont'd ----."

Key
1. Existing wording to remain
2. Existing wording deleted
3. *Proposed addition to By-Laws*

**THE BALLOT FOR THIS PROPOSED
BY-LAW AMENDMENT WILL BE
PRINTED IN THE WINTER ISSUE OF
THE "HOT IRON NEWS".**

North West Blacksmith Association



1995 FALL CONFERENCE REGISTRATION

October 13, 14, 15, 1995
The Barn, Winthrop Washington

Registration and Fees:

I am a member of N.W.B.A. [] I am a member of ABANA []

Pre-Registered before October 6	\$35.00	\$_____
After October 6, or walk-in	\$40.00	\$_____
Spouse	\$5.00	\$_____
Children \$5 per child x =		\$_____
N.W.B.A. Membership	\$20.00	\$_____
Out of Country Membership	\$24.00	
Auction Item \$5 discount		-\$_____
TOTAL		\$_____

Make your check payable to N.W.B.A. and mail to:
Northwest Blacksmith Association
8002 NE Highway 99 #405
Vancouver, WA 98665

DISCLOSURE/ASSUMPTION OF RISK

I hereby acknowledge that by attending the N.W.B.A. Fall 1995 Conference to be held on the property of the The Barn, Winthrop, WA, I assume all risks, hazards and dangers that are present on the property by reason of its location, the terrain and the various equipment located on the property. I specifically waive and release Northwest Blacksmith's Association of any liability, loss or damage which may occur as a result of my presence on the property.

ALL ADULTS MUST SIGN:

Name: _____ Print Same: _____

Family Member: _____ Print Same: _____

Family Member: _____ Print Same: _____

Family Member: _____ Print Same: _____

Address: _____ Phone: _____

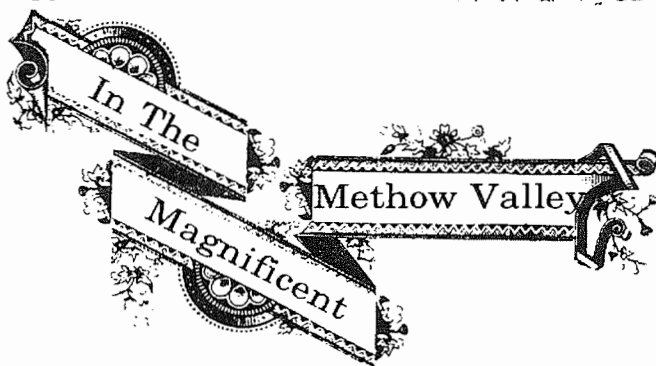
City: _____ State: _____ Zip: _____

North West Blacksmith Association

WINTHROP, WASHINGTON

The site of the N.W.B.A.'s 1995 Fall Conference, October 13 - 15

The Rustic Old West Town



Cattle drives, medicine shows, pack trains and the mystique of the Old West are all part of the Methow Valley experience. Snugly nestled between the Methow and Chewuch rivers, surrounded almost completely by National Forest and State Game Range, Winthrop and the upper Methow Valley beckon to the vacationer/traveler.

For 9,000 years Indians lived and camped along the banks of the Methow, Twisp and Chewuch rivers, digging camas root, picking berries, fishing and hunting. In 1883, the lure of yellow gold brought the first white settlers.

Three of these settlers were James Ramsey, Ben Pearrygin and Guy Waring. Waring stopped at the forks of the Chewuch and Methow rivers in 1891. Waring's wife and two young children soon joined him at this distant outpost. They lived in the "Castle" (now the Shafer Museum). The Warings came from Massachusetts. Winthrop was named for Theodore Winthrop, an early day explorer in the area.

The rich history of Winthrop is reflected in the restoration of several of the original town buildings. The original Duck Brand Saloon (now town hall), was built in 1891.

The town was rebuilt after the devastating 1893 fire. Waring's Methow Trading Company was incorporated in the spring of 1897 and continued for 49 years.

Owen Wister, Warings' Harvard roommate, wrote America's first western novel, "The Virginian", while honeymooning in Winthrop.

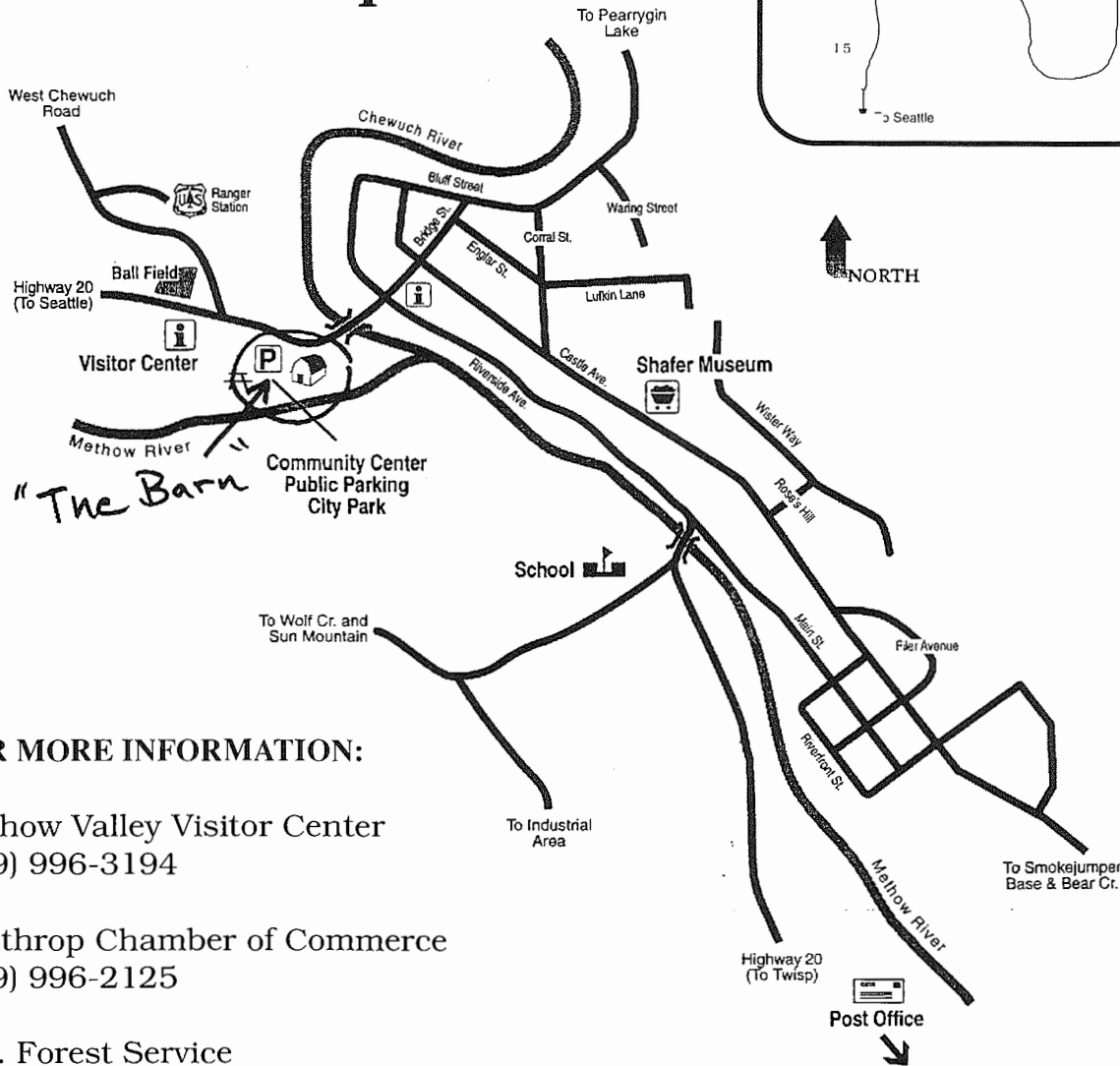
In 1969, while the construction of State Highway 20 across the North Cascades was underway, Mrs. Kathryn Wagner and her husband, Otto, financially assisted the Winthrop business community in restoring a western theme for the town.

By the opening of the highway in September of 1972, the remodeling was complete and Winthrop was hailed as a "superb reconstruction." Westernization is an ongoing process as businesses are added or changed.

D.J. Stull and his wife, Carol, moved to Winthrop in 1990 and opened D.J.'s Forge and Iron. Their shop includes an iron gallery with D.J.'s and other blacksmiths' forged wares. Be sure to visit "downtown" Winthrop and explore restaurants, saloons, antique stores, and craft shops. Don't forget D.J.'s Forge and Iron.



Winthrop



FOR MORE INFORMATION:

Methow Valley Visitor Center
(509) 996-3194

Winthrop Chamber of Commerce
(509) 996-2125

U.S. Forest Service
(509) 996-2266

Winthrop City Hall
(509) 996-2320

Winthrop Police
(509) 996-2160

Shopping just one block from The Barn

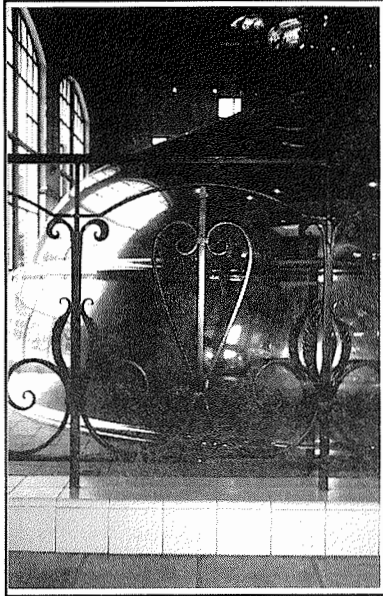
Camping on site and at nearby Twin Lake Resort

LODGING:

Marigot Motel	1-800 468-6754
Cewuch Inn	1-800 747-3107
River Run Inn	(509) 996-2173
The Virginian	1-800 854-2834
Winthrop Inn	1-800 444-1972



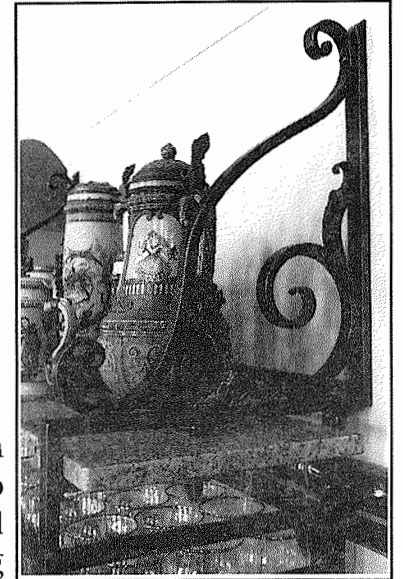
FALL CONFERENCE DEMONSTRATORS



IRONWORK BY JAPH HOWARD FOR THE PORTLAND BREWING COMPANY

JAPH HOWARD

Japh recently taught a kitchenware workshop at Joe Elliott's Dry Canyon Forge and is teaching a joinery workshop this fall. Japh will work from a coal forge and plans to demo traditional ironwork and repousse combing sheet iron and solid bars.



GARY EAGLE

Gary lives in Chesaw, WA on Bear Paw Ranch and was a graphic artist in Seattle prior to 1972. He is a rancher/horse logger and blacksmiths in the winter months building buggies, wagons and draft horse paraphernalia. He worked on the urns for the 1201 Building and Bon Marche with other N.W.B.A. blacksmiths. His wife, Mary, is an ex-horseshoer and runs a flower shop in Oroville, WA. Gary will work from a coal forge . . . a treat for us with gas forges.



N.W.B.A. Fall Conference Iron Gallery

Bring your best forged iron for display or to sell. Gallery open to the public. Quantity of items limited to available space.

FALL CONFERENCE SCHEDULE

Friday, October 13:	Tailgater sales -- get there early
	1:00 - 4:00: Gary Eagle demo
	4:00 - ??? : Open Forge
Saturday, October 14:	9:00 - 12:00: Japh Howard Demo
	1:00 - 4:00: Gary Eagle Demo
	4:00-5:00: Monty Day Band Serenade
	5:00 - 6:00: Pot Luck
	6:00 - 9:00: N.W.B.A.'s Famous "Get in Your Wallet" Auction!
	9:00 - ???" Monty Day and Band Serenade and N.W.B.A. foot stompin' dance
Sunday, October 15:	9:00 - 12:00: Japh Howard Demo
	12:00 - 2:00: Clean up - pack em up and head em out!



BLADESMITH WORKSHOP REVIEW

By Jeff Morgenthaler

A huge thanks to Gene Chapman and hosts Chad Heiserman, Jill and Wyatt for a great Novice Bladesmith's Workshop at Smokey Point, WA!!

For those N.W.B.A. members who haven't had the opportunity to experience Gene Chapman in action, you're really missing something, the man loves it and has a real knack for teaching his speciality. It was a privilege to have been able to be a part of his workshop!

First he had us make our own touchmark so we could stamp the work that we made in the workshop. This was really fun because it made me officially a forge with a name and touchmark of my very own design! Even if they did kind of laugh at it a bit! It was a dream realized! I always have thought life was too short not to have a good sense of humor!

Gene then walked us through the heat treating process by lecture and blackboard, then demo'd forging the knife blank and then it was off to forge our own knife blanks. What fun!!

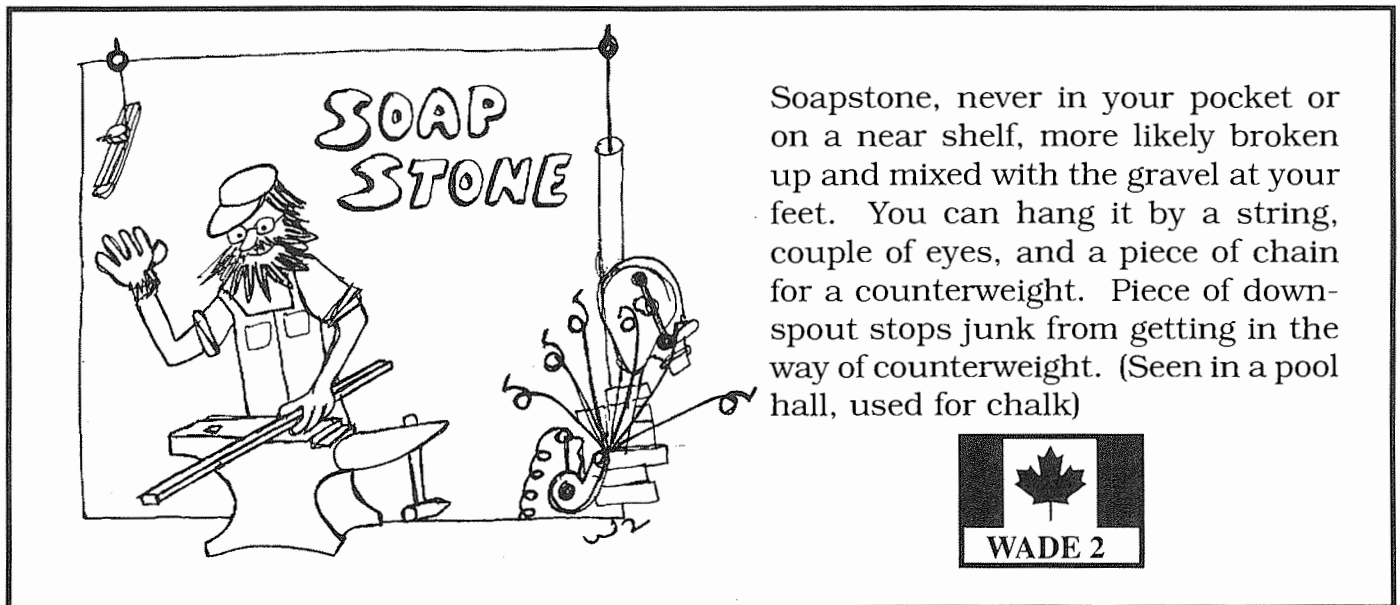
I have always gotten a kick out of individuality, so it was really fun to take seven guys work and put it down for the traditional workshop photo and see the variations we all came up with! GREAT STUFF GUYS!!

Up early Sunday to see if we could finish our knives and learn to forge weld! Boy I had a hard time

squeezing my head into my motorhome when it was time to leave because I had successfully welded a piece of cable back into a solid piece to use for a small blade in a folding pocket knife, the spring and frame of which I had also welded together out of 3/16" round stock and my sheath knife was ready to take home and put the handle slabs on! What a great, info packed, two day workshop! Thanks again Gene and Chad for teaching and hosting. I'd also like to thank all of those who were in the kitchen for the great food. Everything was wonderful!

As I look down the road in the direction I am now heading, I see things suddenly getting a little bit crazy, as I now realize not only do I want to go back to Jerry's and take his Novice II workshop so I can make all of the hardware for my shop, but now I need to take Gene's Bladesmith II course so I can learn how to make my knives better! But the time, where will it come from and how does it disappear so fast! It's no wonder I keep hearing these guys say "you'll find your niche." Life is going to be too short no matter how long I live! Yippee!

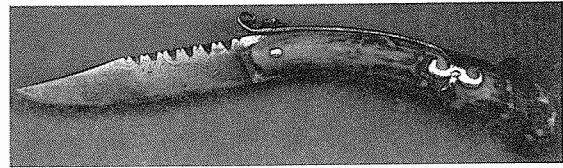
Thanks to the N.W.B.A. for supporting a workshop program and thanks to you wonderful members who are willing to share your expertise with those of us who keep denting your anvils! (That's why I bring my own!)



Soapstone, never in your pocket or on a near shelf, more likely broken up and mixed with the gravel at your feet. You can hang it by a string, couple of eyes, and a piece of chain for a counterweight. Piece of downspout stops junk from getting in the way of counterweight. (Seen in a pool hall, used for chalk)

BLADESMITH WORKSHOP

BY TIM PILCHER



Gene Chapman presented a two day bladesmithing workshop, sponsored by the N.W.B.A. at the shop of Joe Elliott in Redmond, Oregon over the Memorial Day weekend, and it was indeed memorable. There were five attendees (Geoff Keyes, Don Kemper, Ken Logan, Tim Pilcher, and Ken Tice) Joe Elliott was also there, just to try and keep his tools from getting too scattered.

The presentation started out with a briefing on safety and shop etiquette, and about tooling and steels for knifemaking. These subjects continued to come up throughout the workshop and some extracted highlights are:

1. Forge as close to final shape as possible, in as few heats as possible
2. Make and use touchmarks on every thing you make.

Gene then demonstrated the making of a double ended scribe, (made out of garage door spring) and we all got busy and made one ourselves. Then we were shown the effects of heating, cooling and hammering on grain growth. Gene broke his scribe several times to demonstrate it's toughness (or lack thereof) and to view the grain structure. Gene also showed how the scribe, in conjunction with lamp black, is a terrific design/layout tool.

We then went into quite a bit of depth on the heat treating cycle from forging through normalizing, annealing, quenching (hardening) and tempering. A lot of material was presented: there was much discussion about the merits of using various quenching mediums (everything from 'dirty thirty' (used motor oil) to live bodies). Gene recommends (or at least uses) 'kitchen leav-

ings' mixed with paraffin (so's it won't spill when Gene does his Juan Fango impression while driving to central Oregon). Gene demonstrated using edge quenching (which uses residual heat in the bulk of the piece to draw the temper), a full quench to harden and then drawing temper with a propane torch, and also softening only the back edge with the torch while blade edge is kept in water, then using a toaster oven to temper the edge.

We then made and heat treated touchmarks, using the residual heat method of tempering. Gene suggests that every smith design and use a unique touchmark using chisels, drills, motor-tools or whatever to mark everything you make. Several variations of Iron Crosses were made as the design is simple and easy to make with just a chisel, but we all promised to make a more unique and personal touchmark for our blades when we got home.

After lunch (at Rojo's Mexican Resturante) we waddled back to the shop for more discussions, demo's and knifemaking exercises. First off was a rat tail knife, followed by a 'tad pole' knife (which looks suspiciously like an midget Eskimo's ulu).

The afternoon was finished off with discussions on engraving, more on heat treating, and lots of tips on tools and materials and techniques. Gene also passed around part of his collection of hand made knives and kitchen utensils (which generated a discussion of knife design considerations). Gene also demonstrated sharpening techniques and showed off several of his knife making jigs.

After dinner, the die-hards gathered to make Damascus out of 1084 and mild steel (only 64 layers were made as the die-hards are turning into old men and can't stay up late anymore). Next morning we each got a piece of the Damascus, and Gene demonstrated etching with Radio Shack's etchant. Next we saw a demo, and then each made a mountain man's knife (a single piece of 3/16 by 1") with an upset finger guard and requiring lots of pounding (all the fat boys sweated on this one).

After lunch we had a demo on knife sharpening using double grit Norton oil stones and double refined lamp oil (no perfume please). Our next project was a folder handle made out 7" of 3/16" mild steel rod. This included a forge weld that was a lot of fun on such small material. After we all built the handle (to various degrees of finish vs roughness) Gene talked about the design of folder blades, handles and locks. Gene likes square backs because of the 'clicks'. We finished off with a double edged throwing knife out of 1/4 x 1 x 10 mild steel, with a coffin handle and left untreated so the mountain man can straighten them out in the unlikely event that they miss the mark.

We wrapped up about 5:00 p.m. Sunday, it was an enjoyable weekend, lots of central Oregon sunshine, masterly demonstrations by Gene, and lots of hospitality from 'Velcro' Joe Elliott. Your correspondent wants to especially thank the N.W.B.A. for granting me a scholarship to attend this workshop. I have already started applying much of what I learned, and am recommitted to making blades, especially pattern welded ones (as soon as I get my Little Giant running . . . I promise!)

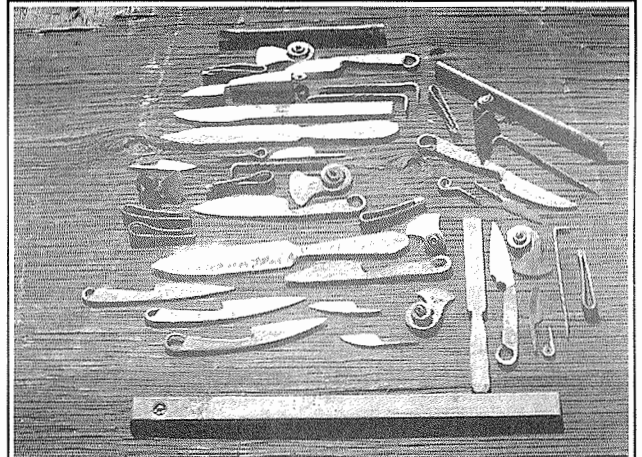


BLADESMITH

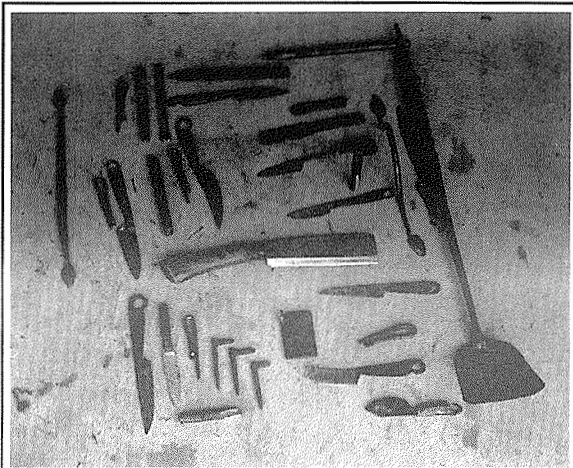
WORKSHOP SNAPSHOTS



Left to right: Kenny Tice, Ken Logan, Tim Pilcher, Geoff Keyes, Don Kemper, Gene Chapman and host, Joe Elliott



Bottom pawprint from Joe's 300# cat, "Lucky" who jumped on some hot iron!



Q.: What's that shovel doing there?
A.: Chad's midnight madness!

May 27, 28, 29, 1995



Left to right: Eric Liening, Gene Chapman, Mike Nordman, Jeff Morgenthaler, host, Chad Heiserman, Jerry Kagele, Pat Van Dyke, Jack Slykerman



\$ \$ SCHOLARSHIP INFO \$ \$

N.W.B.A.

A formalized Grant/Scholarship program has been set up. A maximum of \$1,000 per year will be made available with only one scholarship granted per event. Applications are submitted to a review committee at least one month prior to the event. In accepting this grant/scholarship, the applicant would be required to write an article for the next issue of the "Hot Iron News" demonstrating something that was learned at the event. If it becomes possible for the recipient to repay the grant/scholarship in the future, the money would go back into the fund to be used by someone else at a later date. If interested, contact an N.W.B.A. board member for more information.

FRANCIS WHITAKER BLACKSMITHING SCHOLARSHIPS

A Whitaker scholarship for experienced students will be awarded in two Blacksmithing Classes at John C. Campbell Folk School. One "tuition only" (\$450) will be awarded for the Fall class 1995, Garden gates, Oct. 29 - Nov. 11, which is taught by Bob Becker in the traditional methods of Francis Whitaker. A second scholarship of "space available" tuition will be awarded by the Folk School. Tuition scholarships will be also awarded for the one week Spring class of Whitaker traditional methods taught by Clay Spencer, April 14-20, 1996.

Need of applicant will be considered and applicants must be above the beginner level. Apply by sending the following items to: John C. Campbell Folk School, Blacksmith Scholarship, Route 1, Box 14A, Brasstown, NC 28902.

1. Name, address, phone number.
2. Resume of your blacksmithing experience. Include training, blacksmith classes taken, apprenticeships, blacksmith and related work experience, describe type of work, products, your part of the work, length of time, etc. Can you forge weld, turn a smooth scroll with hammer and anvil and forge an upset square corner?
3. Pictures and description of your present work.
4. Reason you need scholarship money.
5. Goals of your blacksmithing career.
6. Project you propose to make in the class.

Application must be received by September 25 for Fall class and February 1 for Spring class.

JOHN CAMPBELL FOLK SCHOOL AUCTION

The annual blacksmith Auction to benefit the Folk School teaching facility is November 11, 1995. There will be a demonstration by Bob Becker in the morning . . . followed by the auction in the afternoon. Come join with friends for a great day of blacksmith activities at the Folk School. Mark your calendar for November 11, 1995.

Women as Blacksmiths

by Jane Geddes

Reprinted with permission from the *British Blacksmith No. 74* (1995)

In medieval literature the female blacksmith, "a fell woman and full of strife," had a particularly evil reputation. She was supposed to have forged the nails for Christ's crucifixion after her husband had refused to do so, inventing a hand injury as an excuse. The scene is vividly shown in the *Holkham Bible*. Even a craft as strenuous as smithing sometimes depended on women who were responsible partners in the family business and gild activities. Katherine the mother of Andrew of Bury, king's smith at the Tower, was paid a wage equal to his (8d. a day) so that she could "keep up the king's forge in the Tower and carry on the work of the forge" while Andrew was away campaigning at Crecy, in 1346. She had gained plenty of experience for this, having been married to Walter of Bury who had been the king's smith for nine years. On another occasion, the king employed Katherine the smith-wife (fabra) for "steeling and battering the masons' tools" at Westminster in 1348. She may have been the same Katherine of Bury. Women could also be responsible for apprentices in the same way as male masters of craft. In 1364, Agnes the wife of John Cotiller promised to train Juseana as an apprentice, to feed, clothe and teach her, and not beat her with a stick or knife. Women were not just given easy jobs like knife grinding. The account roll of Byrkeknot, Weardale, isolates the women's tasks and their wages. The tasks of the "smytheman's" wife in 1408-9 are described as follows: ". . . helping to break up rock, blowing or working at the bellows, diverse labours, working at the bloom hearth and helping her husband. She only earned a regular wage when she helped her husband: she was then paid a penny for every shilling he earned, in other words, receiving a piece-rate of a

hapenny per bloom. She was generally better paid for breaking rock or working the bellows, but in a somewhat erratic way that related neither to the number of working days nor to the number of blooms." Women working at the smelters are illustrated in the paintings of Henri Bles (c. 1490-1500) who lived in the region of Liege.

Women were assumed to become members of a gild as soon as their husbands or fathers became masters. The ordinances of the girdlers of London and the rivet-makers of Paris forbade the employment of strange women, but allowed wives and daughters to work. Women also came to the gild feasts, but presumably consumed less than the men: the cutlers in 1370 charged 2s. for a brother and 1s. for his wife. In the lorimers' fraternity it was arranged for an equal number of masses to be sung at the death of any brother or sister, provided they had paid their subscriptions.

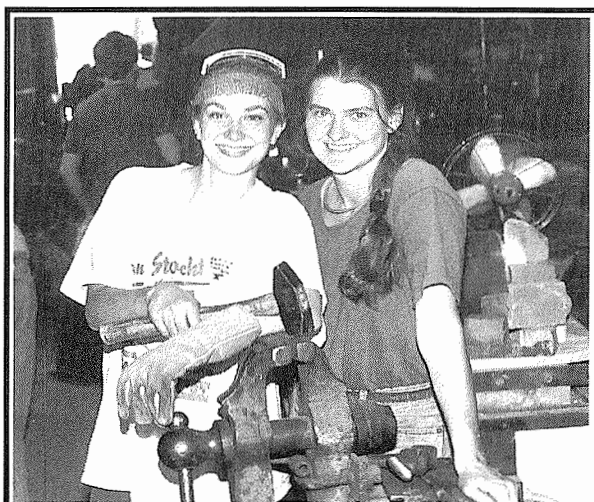
By the end of the Middle Ages, iron-smiths had developed the potential of their metal to **the limit of the** technology available. Water power had increased production from the bloomeries and was also used for mechanical hammers. The smiths could make heavy bars for wrought-iron cannon and architectural purposes or produce works of great precision and refinement for clocks, armour and decorative pieces. The major technical advances of making cast iron in a blast furnace and the indirect process for making wrought iron greatly increased the yield from ore and the range of products, marking the arrival of a new industrial era.

(from *English Mediaeval Industries, Craftsmen, Techniques, Products*, eds John Blair and Nigel Ramsay. Hambledon Press 1991)

Reprinted from "The California Blacksmith"

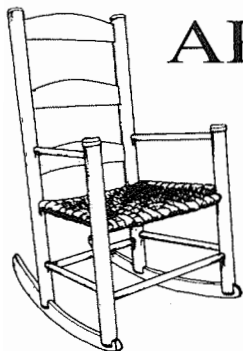


Graphic taken from the Newsletter of the New York State Designer Blacksmiths, Jan. 1992



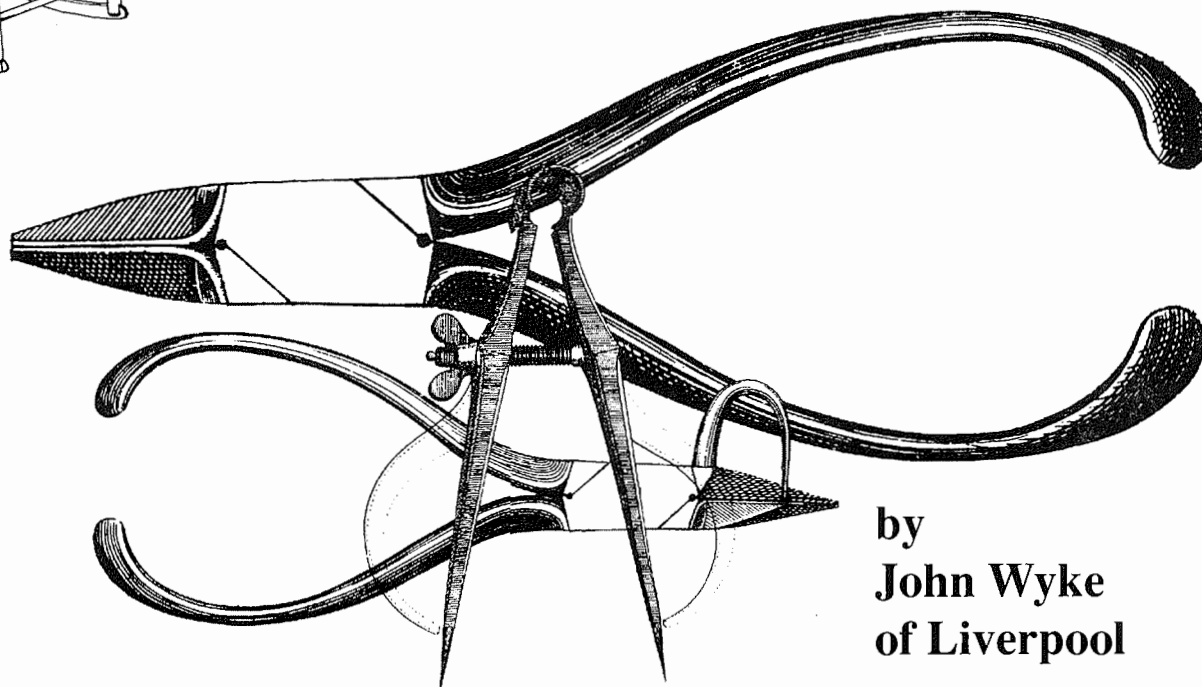
"Sisters of the Swage" --
Leticia Kagele and Alice James

Photo by Jerry Kagele at the recent
Japh Howard workshop



ARMCHAIR BLACKSMITHING

A Catalogue of Tools for Watch and Clock Makers



by
John Wyke
of **Liverpool**

The John Wyke *Catalogue of Tools*, which shows the implements that were commercially available for clock and watch makers in the eighteenth century, is the earliest known representation of horological tools in catalogue form. John Wyke was a successful craftsman and manufacturer in the small but highly specialized and prominent trade of Lancashire, England. This facsimile of one of the four known surviving copies of Wyke's catalogue includes his and his partner's trade card, a reproduction of a unique eighteenth-century frontispiece, and fifty-four engraved plates of clock and watch making tools originally printed between 1758 and 1770. The contents of this catalogue are little known either by social and industrial historians or by students of horology.

Published by the University Press of Virginia ISBN 0-8139-0751-9

Available from The Henry Francis du Pont Museum, Winterthur Book Catalogue, Winterthur, Delaware.

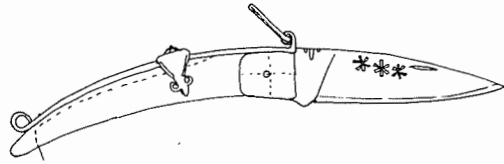
To order call (302) 888-4741 OR 1-800 448-3883.

Catalogue of Tools - code # 705006 price \$25.00

Be sure ask for a catalogue. It is an excellent 32 page source book.

Thanks to Ike Bay for loaning this interesting book for review.

I ordered one right away. ed.



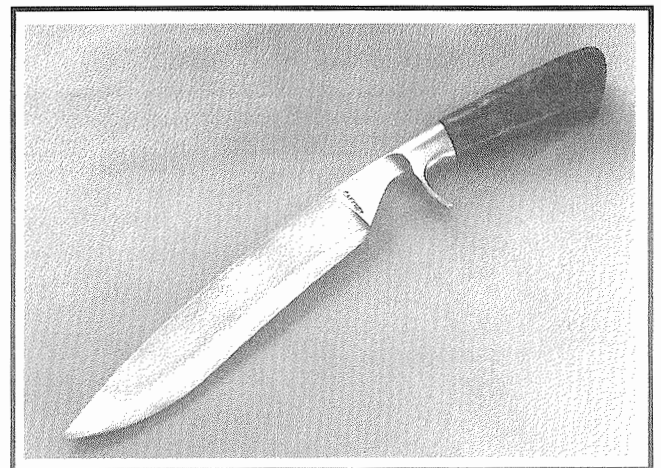
Bladesmith Corner

The Oregon Knife Collectors Association held their annual show on April 2 & 3, 1995, in Eugene, Oregon. Longtime N.W.B.A. member, Phil Baldwin was guest speaker at the Saturday evening banquet. His presentation included slides from many artists and knifemakers and was very enlightening. Among the shows 250 plus table holders were N.W.B.A. members Wayne Goddard with his primo forged blades; C.D. Childs from Olympia, WA (a N.W.B.A. Novice Workshop participant) and about a dozen "Montana boys" with many quality knives on display.

KNIVES BY ED CAFFREY



Ed Caffrey specializes in custom forged Damascus, carbon steel and cable Damascus knives. He is a journeyman smith in the American Bladesmith Society. If you are interested in contacting Ed he can be reached at 2608 Central Avenue, West, Great Falls, Montana 59404, (406) 727-9102.



Smedley and Smally Soapstone enroute to NWBA's fall conference at Winthrop, WA.. They hail from Gamble Bay, WA.

JAPH HOWARD WORKSHOP

by Jerry Kagele

Precise English craftsmanship was the standard at the Japh Howard workshop held at Joe Elliott's Dry Canyon Forge at Redmond, Oregon, July 13-15, 1995.

Japh's masterful European training was apparent as he coached the crafting of a cooking fork, a frying pan and a corkscrew.

Japh, whose forge is in Ballard, was assisted by Alice James, a professional artist/blacksmith who also works in Seattle.

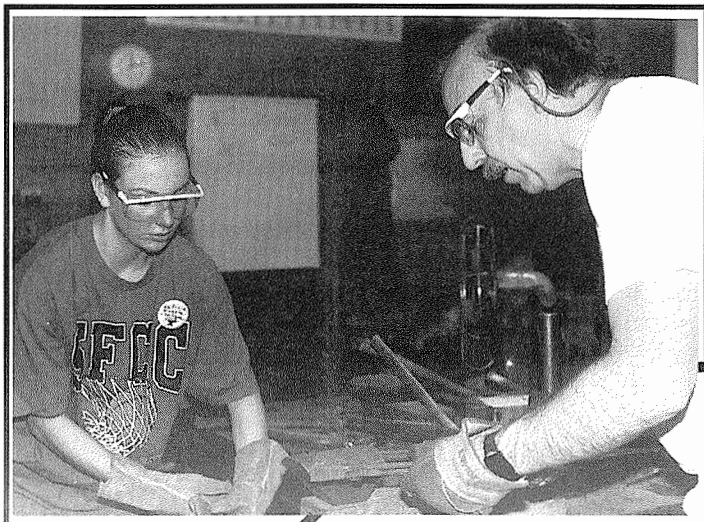
Joe Elliott, NWBA's Vice President, proved himself to be a true metalmeister and forged a way cool trout handle for his frying pan. Joe also demonstrated his forge technique called a "convenience bend" --best described as what happens when European craftsmanship doesn't pan out! Working with Dennis Prince, NWBA's maximum secretary, the two worked on a metal disk which alternated between looking like a frying pan and a hubcap off a 1953 Buick Roadmaster!

Japh's grand finale was the corkscrew — forged with only a hammer and anvil! After drawing out spring wire into a tapered, slightly rectangular shape, a large coil was formed and reduced to a helix by light downward hammering. The tightly-wound coil was then spread/spaced with a chisel edge. This was an intriguing novelty project which was fun to field test!

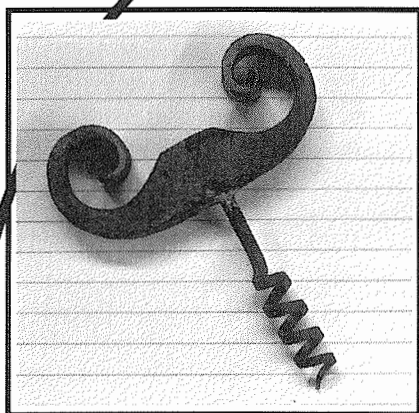
Joe was a great host and Japh challenged everyone's skill level. Everyone gained an entirely new appreciation of frying pans!



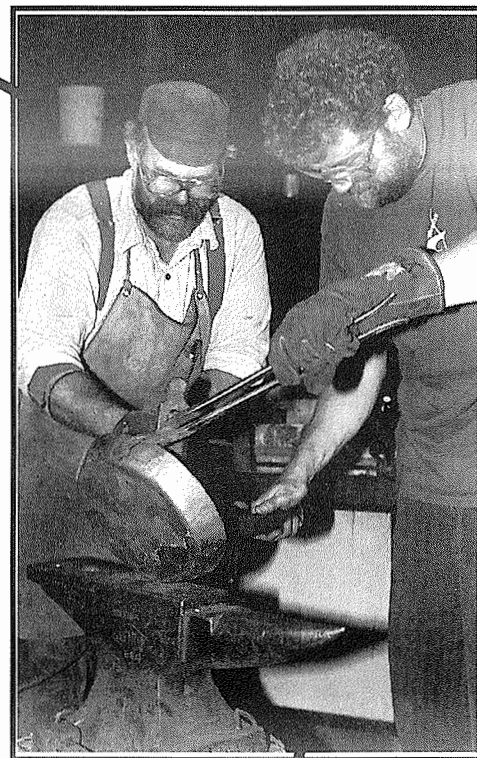
Japh leads class in frying pan inspection.



Father-daughter team make a skillet.



Japh's corkscrew



Joe and Dennis forge custom Buick hubcap



Photos by Jerry Kagele

L to R: Lyn Cane, Alice James, Joe "Convenience Bend" Elliot, Steve Light, Leticia Kagele, Jerry Kagele, Dennis Prince, Rick Russel, Japh Howard. Not pictured: Hugh Eddy

SWAGE BLOCK STAND VARIATIONS

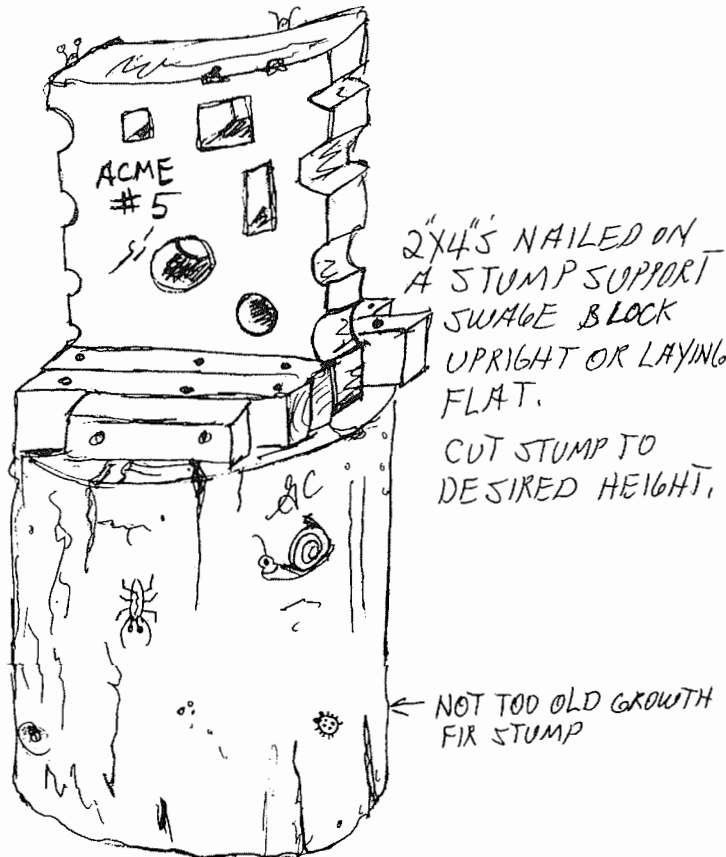
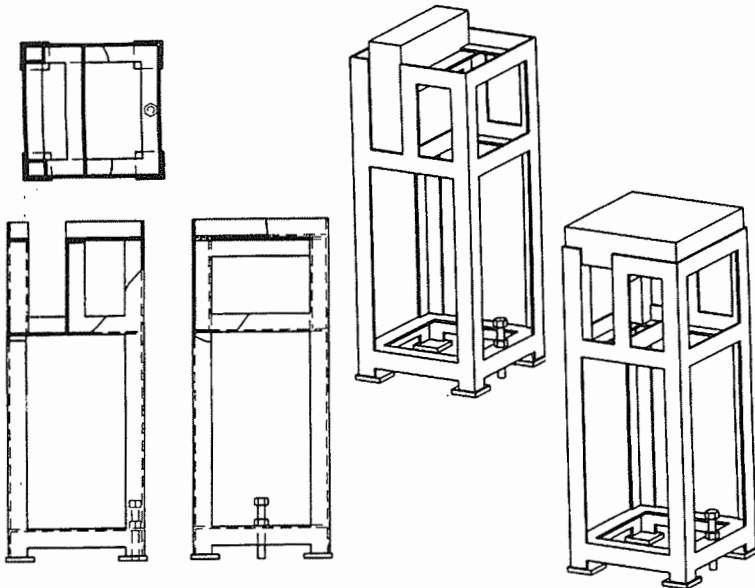
I've seen swage blocks used while resting on the floor, precariously perched on anvils or sitting on the workbench. Some smiths cut a slot in a log at the appropriate height and slide the block in on edge, or lay it flat on top as the job requires.

Demonstrator, Hank Steinmetz, while performing at the "94" Quad State Roundup, had his mounted on an angle iron frame. The idea appealed to me, because it not only offered versatility, but a solid base that could easily be moved around the shop.

Other features could be incorporated as well. Such as: designing so the overall height is close to your anvil's height. Long work pieces could be supported while either forging or swaging. Four foot pads attached to help float the stand on the ground or dirt floors. A fifth adjustable leg in the back to create a three point contact on uneven hard surfaces. Place the vertical slot near the front to provide ample knuckle clear once while hammering.

If 1/4" x 2" x 2" angle iron is used, a 3/4" board or plywood pad under the block on both shelves still leaves a 1" lip to hold it in place. Other sizes of angle framework would also work. Leave some space around the block for easy removal to reposition.

By: Paul Davidson and Ernie Deutschman
REPRINTED FROM NORTHWEST OHIO BLACKSMITH





Bill Epp's Quick Tongs

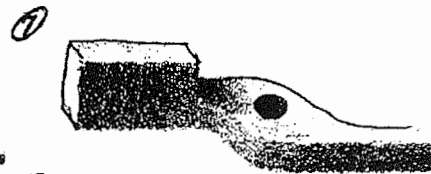
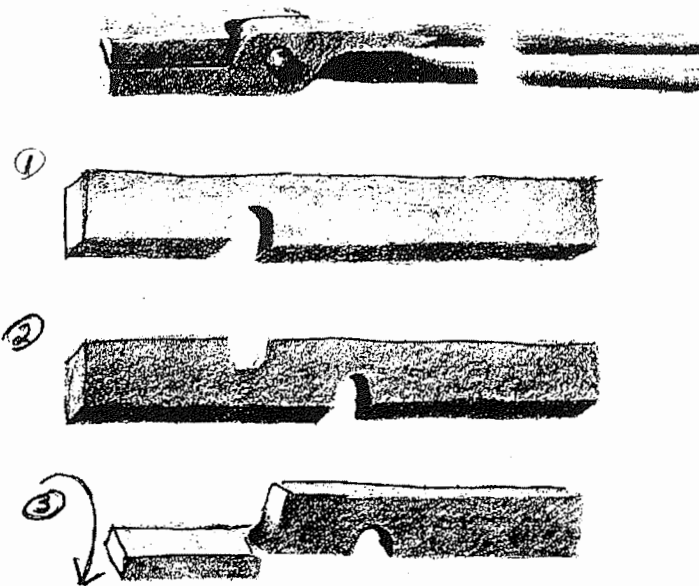
by Virgil Vines

Notes: For quick tongs to work properly, the thickness of the stock used should be one half the width; for example, use 3/8" x 3/4". Rod diameter is the same as thickness of material; use 3/8" for example above.

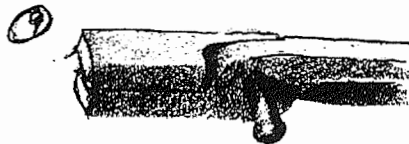
1. Lay rod across anvil and hammer rectangular stock down on it until it is flush with the face of the anvil.
2. Turn the stock over and do the same thing leaving enough space in between for the pivot section of the tongs.
3. Place the jaw end in the vice and twist 90°.
4. Go back to the anvil and draw out the rein section to the diameter of the rod.
5. Round off corners.
6. Scarf weld (or jump weld) the tong ends to the reins.
7. Punch or drill rivet hole.
8. Repeat steps 1 through 7, making another piece exactly like the first.
9. Rivet the two halves together.



Bill Epp's Quick Tongs
by Virgil Vines



REPEAT ABOVE



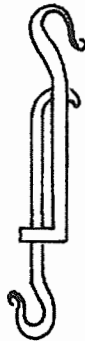
Reprinted from
NORTH TEXAS BLACKSMITHS ASSOCIATION
The Bellows Blast Vol. 4, No. 2 March, 1993



ADJUSTABLE TRAMMEL HOOK

REPRINTED FROM
The Florida Clinker Breaker

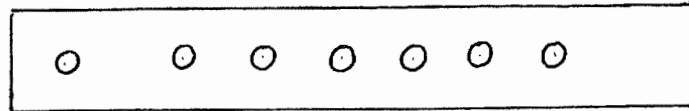
AS
DEMONSTRATED BY
HANK STEINMETZ
BY **BILL ROBERTSON**



WHAT YOU NEED

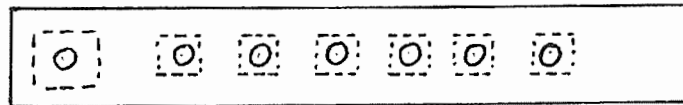
- 1- ONE 12 INCH PIECE OF 1/4 BY 1 INCH FLAT STOCK
- 2- ONE 12 INCH PIECE OF 5/16 INCH SQUARE STOCK
- 3- A DRILL AND A 1/4 INCH DRILL BIT
- 4- A SQUARE PUNCH
- 5- A HAMMER 6- AN ANVIL 7- FIRE

STEP 1
PRE-DRILL 1/4 INCH HOLES IN THE FLAT STOCK AS SHOWN

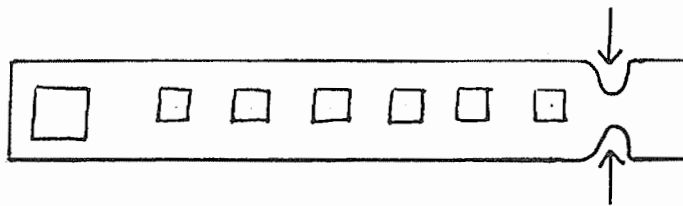


THE FIRST HOLE IS 5/8 INCH FROM THE END. THE SECOND IS 2 INCHES FROM IT AND THE OTHERS ARE 1 1/2 INCHES APART.

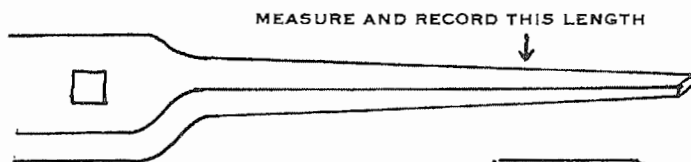
STEP 2
DRIFT OUT THE FIRST HOLE WITH A SQUARE PUNCH TO 1/2 INCH SQUARE. DRIFT ALL THE OTHERS TO 5/16 INCH SQUARE.



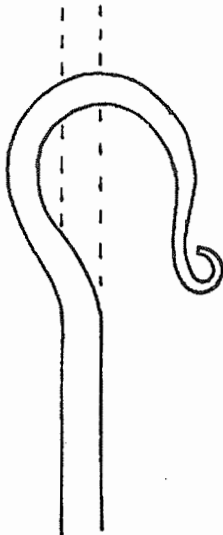
STEP 3
FULLER 3/4 INCH BACK FROM THE TOP TO 5/16 INCH SQUARE. USE A SPRING FULLER OR THE EDGE OF THE ANVIL



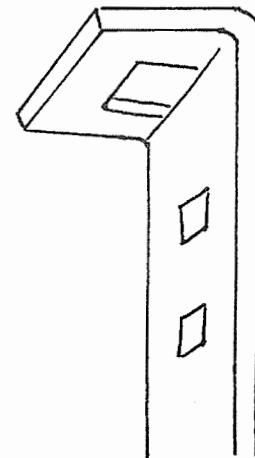
STEP 4
DRAW OUT THE END TO A FLAT TAPER MAINTAINING THE FIRST INCH OR SO AT 5/16 INCH SQUARE



STEP 5
CANT BACK SOME AND FORGE OUT YOUR HOOK. FORM THE SMALL END SCROLL FIRST THEN AFTER YOU REHEAT DOWSE THE TIP IN WATER THEN SCROLL THE LARGE PORTION OF THE HOOK



STEP 6
BEND THE BOTTOM 90 DEGREES OPPOSITE TO THE TOP SCROLL AND SO THAT THE EDGE OF THE LARGE HOLE IS FLUSH WITH EDGE OF THE BEND



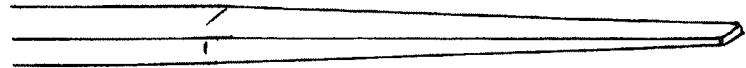


ADJUSTABLE TRAMMEL HOOK

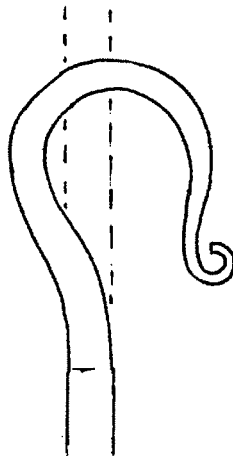
The Florida Clinker Breaker

1/4 INCH OR 3/8 INCH STOCK CAN BE USED IF 5/16 INCH STOCK IS NOT AVAILABLE IN YOUR AREA

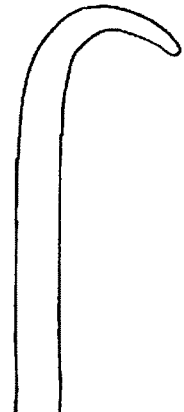
STEP 7
DRAW OUT ONE END OF THE 5/16 INCH SQUARE STOCK TO THE SAME LENGTH AND TAPER AS YOU DID IN STEP 4



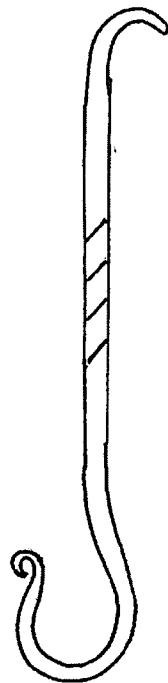
STEP 8
CANT BACK AND DUPLICATE THE HOOK YOU MADE IN STEP 5



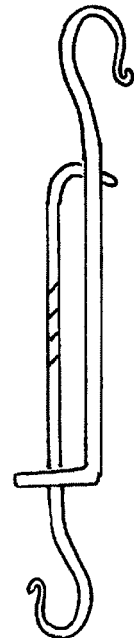
STEP 9
DRAW OUT A POINT ON THE OTHER END AND MAKE A SOFT BEND DOWN IN THE DIRECTION OPPOSITE TO THE HOOK



STEP 10
PUT A TWIST IN THE MIDDLE (OPTIONAL)



STEP 12
ASSEMBLE YOUR TRAMMEL HOOK. TRADITIONALLY USED TO HANG POTS OVER THE FIRE. CAN BE USED AS A DECORATIVE WAY TO HANG MANY THINGS SUCH AS CHANDELIERS, BASKETS ETC.



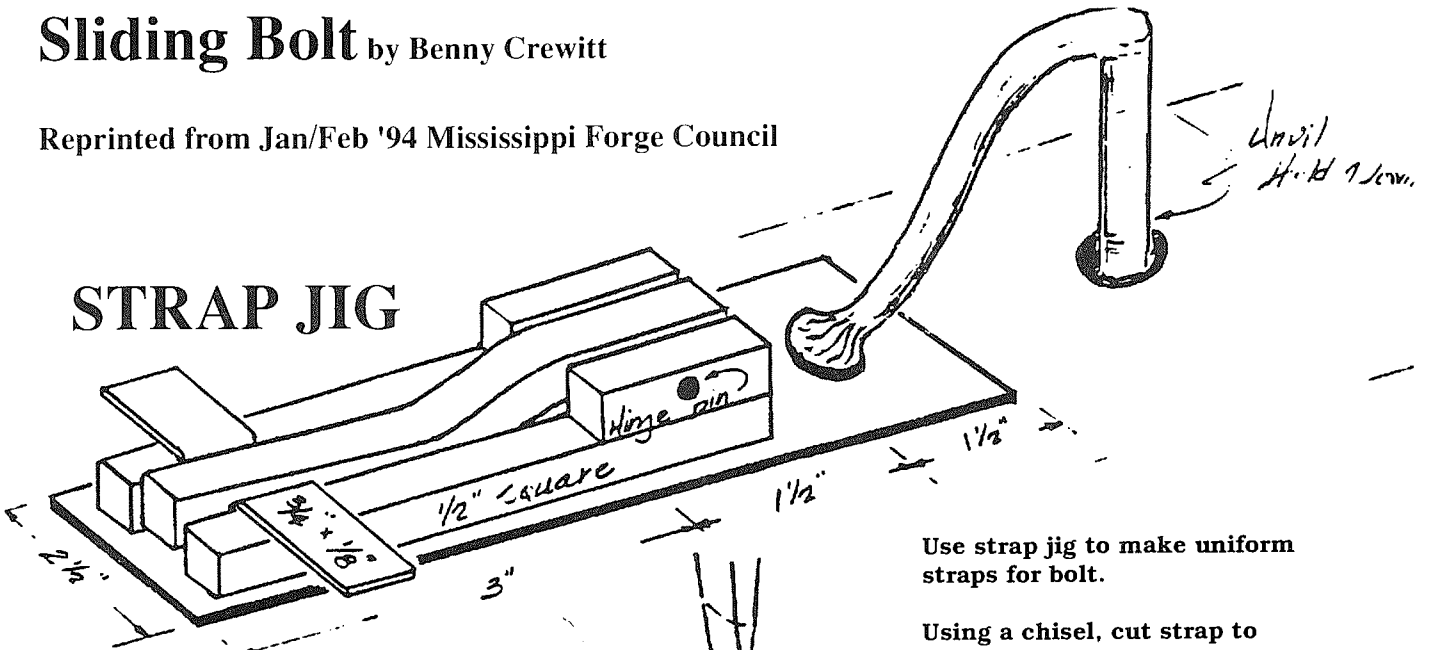
STEP 11
BRUSH DOWN BOTH PIECES WITH A WIRE BRUSH AND HEAT UNTIL WARM. APPLY BEESWAX OR YOUR FAVORITE FINISH

END

Sliding Bolt by Benny Crewitt

Reprinted from Jan/Feb '94 Mississippi Forge Council

STRAP JIG

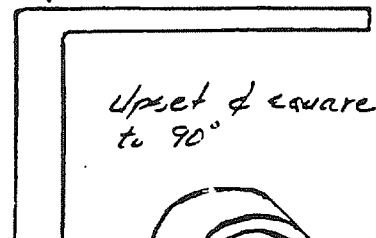
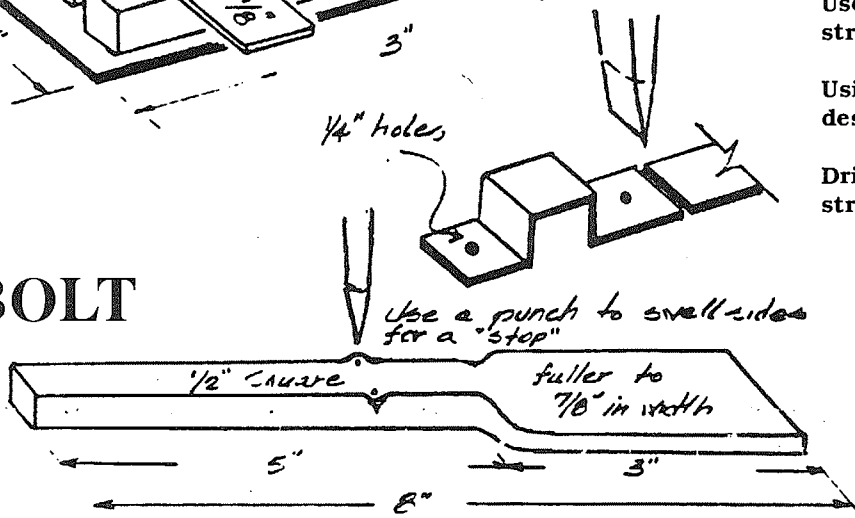


Use strap jig to make uniform straps for bolt.

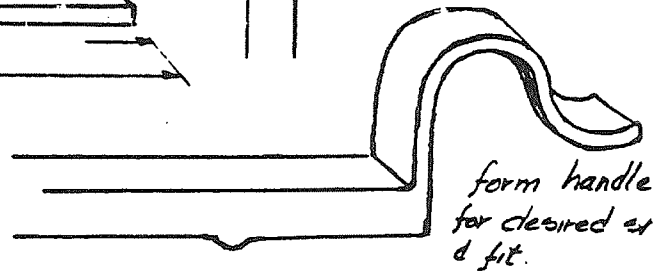
Using a chisel, cut strap to desired length.

Drill or punch 1/4" holes in strap for attachment to plate.

BOLT

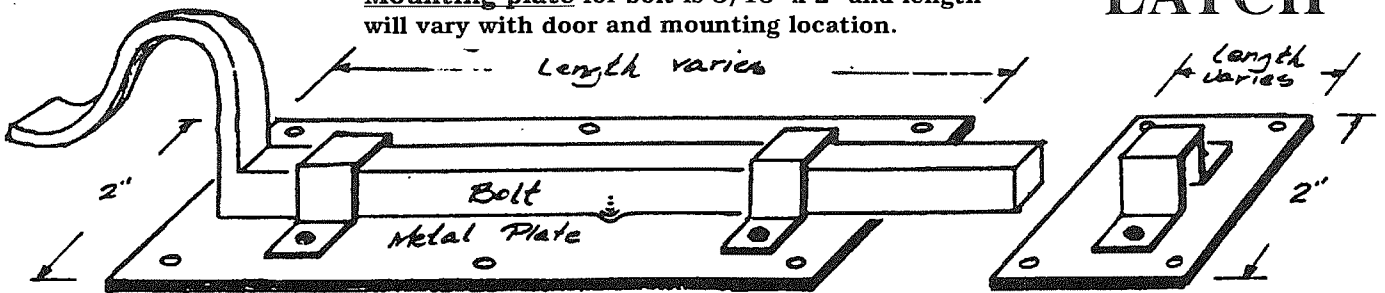


Upset & square to 90°



Mounting plate for bolt is 3/16" x 2" and length will vary with door and mounting location.

LATCH



Attach straps with rivets 3/16" x 1/2"

Drill or punch 1/4" holes in plate for mounting

If too tight, place in fire and loosen and adjust as needed.

The Bo Hickory Shock-absorbing Hammer Handle

by Wayne Goddard

The photo shows one of my favorite hammers that I made up with the shock absorbing handle as per Bo Hickory's instructions in several blacksmith association newsletters.

I wouldn't have believed the difference it made until I worked back and forth between the cut-out handle and a regular one. The difference is amazing, and I'll never - use anything else for heavy work. It is just the thing to help my worn out wrist and elbow. Also, I can't prove it but the modified hammer seems to move more metal with the springy handle. Many old timers have told me that a handle with spring in it would give a harder blow. I believe it now. The shock-absorbing handle is sensitive enough so

that when working on an anvil that is not secured to the anvil base, the rebound of the work/anvil can be felt with the hammer! Almost everyone who has used one of the hammers that I have modified have also done their heavy hammers (two pounds plus) that way.

I've made the handle two differ-

The difference is amazing, and I'll never use anything else for heavy work.

ent ways, depending on whether it was done to a hammer with a good handle in it, or on a new handle to be installed.

#1 On a new handle, I cut in from the wedge end (approximately 4 1/2 inches) up to a drilled hole.

The sides of the cut-out are sanded and smoothed up with a radius on the inside edge of the cut-out. A wood spacer is super glued into the space that the head will take up, then the wedge slot is re-cut. Handle is installed as per usual.

#2. On an existing handle. I drill a 3/16" hole up next to the head, then I cut in with a band saw up to the hole. That's right, split the whole handle. I then glue (epoxy) in a spacer of a dark wood, (or any hard wood) to get the handle back to the beginning dimension. The dark wood gives the hammer a custom look. After smoothing up, the whole works is soaked in linseed oil for at least two weeks. If you have a milling machine the slot could be milled out with a 3/16" end mill or router bit.

Tips for "Never Loose" handles. Pick out handles very carefully, make sure that they are straight and have no flaws in them. The best handles have a straight grain and the growth rings running in the same direction as the hammer blow. Make sure the handle is dry by putting it in a warm and dry place for several days before installing. Make sure there are no sharp edges on the hole in the hammer head. Take a file or small grinding wheel and put a nice smooth radius on the side of the head that the handle goes into. If left sharp it will keep cutting the wood rather than wedging in and the handle will keep working loose.

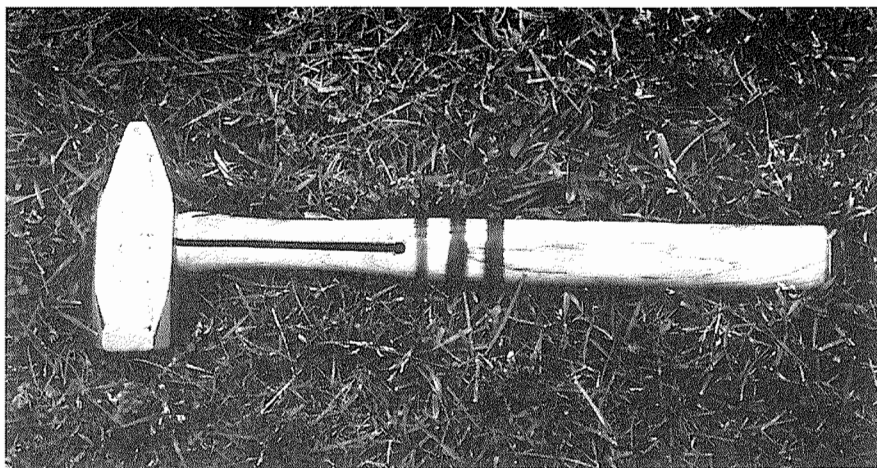


Photo by Wayne Goddard



TWISTED VINE WINE BOTTLE HOLDER

By Jerry Gier

Reprinted from the Northwest Ohio Blacksmiths Newsletter, July/August 1995

Forge a leaf and eye on both ends of a piece of 3/8" x 24" rod. The spiral bottle holders are welded to the main vine and the weld area is wrapped (using a torch) with either 1/8" or 3/16" rod. Leave the ends stick out about 2" and twist ends into a viney spiral. The bottle holder can be made to hold from 1-6 wine bottles.

The jig to wrap the spiral around is shown in sketch "B". The jig is made up of 1 piece of 3 3/8 o.d. pipe 8" long, one piece of 3/4 o.d. pipe 15" long, 8 pieces of 1/4" x 7" rod and 1/4" thick flat bar. Locate the 3/4" pipe inside the 3 3/8" pipe on the center line, use the 1/4" flat bar top and bottom. Form the 1/4" x 7" rods to match the neck of a sample wine bottle. This arch can be made by forging, using the step of the anvil. I set the (8) 1/4" x 7" rods around the neck area of the jig and weld in place. Go back and grind the area nice and smooth since the finished spiral has to slide down the neck to get it off of the jig. The finished neck area should be about 1 1/4" tapering up to 3" on center.

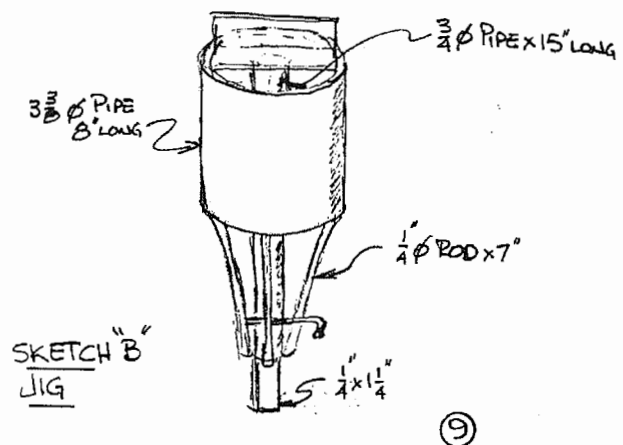
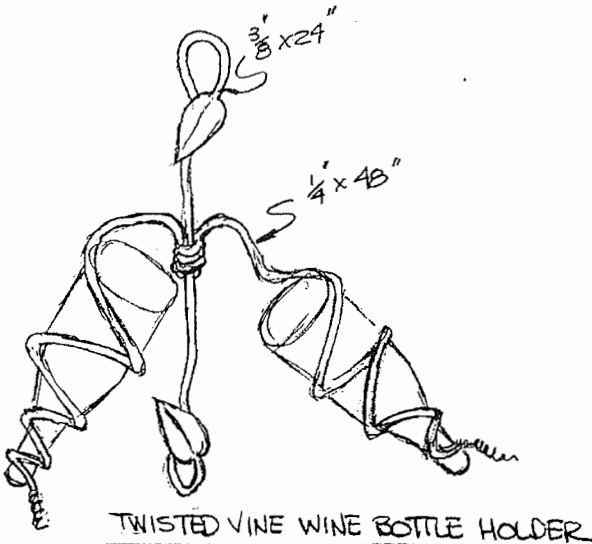
I used a short piece of 1/4" rod to make a small hook 1" up from the bottom of the jig. The opening needs to be at least 1/4" wide. This is used to

hook and hold the 1/4" x 48" rod as you wrap it around the jig using a torch. Weld a piece of 1/4" x 1 1/4" flat bar to bottom end of the jig so that the jig can be clamped into the vise. Also, weld a piece of 1/4" flat bar to the top jig so that the jig can be flipped in the vise to make it easier to remove the spiral wrap.

Take a piece of 1/4" x 48" rod, hammer the full length for texture and life. Point one end and roll several small viney curls to get the vine look. Hook the curled end onto the jig hook and using a torch spiral the 1/4" rod up the jig. I usually get 4 1/2 to 5 complete wraps. Also, I don't wrap completely up the large pipe, it makes the spiral too long if you do. A little trial and error will tell you how far to run the spiral. Wire brush then flip the jig over in the vise and wire brush again. By this time the spiral should be cool enough that you can grab it and twist it opposite of the spiral and it should back off of the jig. You may have to tap it gently with a small hammer to get it started. Bend the stem to fit on to the main vine. Weld and wrap, oil and you are finished.

You can adjust how the bottles hang by using a torch near the weld and push the spiral where it looks best.

A little trial and error will tell you how far to run the spiral.





IS BLACKSMITHING ONLY FOR FUN; OR IS PROFIT ALSO PERMITTED?

We in the blacksmith fraternity have all talked and dreamed of the day we can quit the "rat race" of an 8 to 5 job and just blacksmith. This is sometimes called "self-employment".

Some few have actually achieved this mystical goal. Wayne Goddard just quit his job one day and became a full time bladesmith and surprised himself to learn with commitment, he actually was self-employed and not starving to death. Our deep friend, Jerry Culberson, went full time smithing many years ago and we know Jerry still knows good food from time to time.

D.J. Stull of Winthrop, Wa., who also after much study, quit his steady welder's job and moved to Winthrop to open a shop to sell and produce black iron for the public.

Darryl Nelson and Russell Jaqua have been full timers for many years. From time to time we have seen advertisements in the "Anvil's Ring" or the "Hot Iron News" openings in living history museums or tourist spots and briefly entertained the thought of --- "Why not me?"

I recently received a phone call from such a museum owner saying he would be erecting a 50 x 100 building set up with a complete line shaft for a wagon builder/wheel wright shop/general blacksmith shop/custom ornamental iron shop and flat belt driven machine shop. This man already privately owns and operates a full museum on the major highway to Glacier Park.

His idea is to lease the blacksmith areas for a small reasonable fee and let the smith demonstrate and sell to the museum visitors or take in custom work to see outside the museum. Of course winter time slows down which would allow time for travel or fun.

While not a "tourist trap", Polson, Mt. is a tourist service town at the south end of Flathead Lake, (the largest fresh water lake in the U.S.A. after the Great Lakes).

Well, dreamers what do you think? It has been done by others. Can we help this man's plan? He builds the building and furnishes the basic equipment, anvil, forge, swage block, tongs, power hammer, wheel wright tools, crowds and opportunity. Do we have anyone who can furnish the fuel - electricity - iron - skill and sweat?

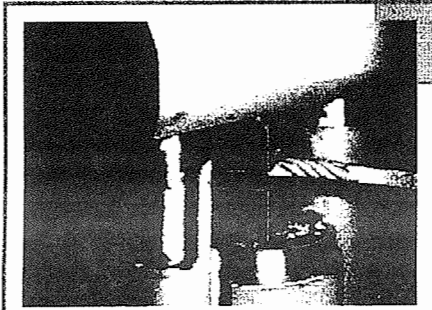
Contact the man himself -- make your own deal -- live in the "Big Sky Country" in the mountains -- on the lake -- hunting and fishing. Contact Gill Mangels, The Miracle of American Museum and Pioneer Village, 58176 Hwy. 93, Polson, Mt. 59860, Home phone: (406) 883-6804, Shop Phone (406) 883-6264.

Submitted by Dave Brandon



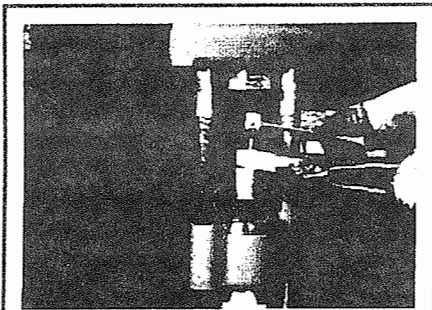
KICKASS 75

AIR STRIKING HAMMER



POWERFUL GRIP!!
held by the hammer for twisting!

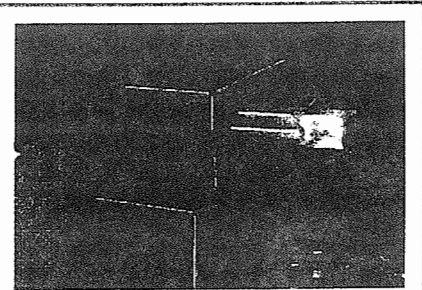
Novice and experienced smith alike will appreciate the predictable nature of this hammer. It's single blow action is easy to control, from a light tap to full power. The ability to grip work in the dies is an added bonus with many applications. Drawing is not this hammers strong suit but, the light treadle makes it quite easy



PLENTY OF HEAD ROOM!!
shown with 3" bolster + 1 1/4" bar + 3" tall punch and room to spare!

Yep! Here it is! Our upside-down, inside-out, Off-Center Air hammer!

This hammer was designed in the certain knowledge that a few well directed blows are worth more than a whole shit pile of Little Giant gee, I finally got it over the top and it hit six blows before I could stop it, kinda blows. Or maybe you just like doin' that little dance where you try to raise the hammer, shove the work under, get the top tool in position, all before the ram comes down and knocks the punch over sideways and smashes it into the work a few times. Exaggeration? Not much! Watch the Clifton Ralph tapes. Here's a terrific smith with a couple of the best set-up Little Giants around. He's doin' the Power Hammer Polka all the time.



EITHER WAY!
30° die angle allows work or tools from front or side!

Air consumption was a big consideration in the design of this hammer. Valving that gives reciprocating motion and good power uses tons of air. Reciprocating motion with low air consumption shows relatively poor performance. From the very start we decided this hammer must run on a five H.P. single phase compressor (the kind they sell at Costco for \$359.00).

75# anvil weight available - \$500.00 extra. Adds considerable punch!

For more information request our video - \$5.00

- 75lb. RAM
- Powerful grip
- Only 10 C.F.M. req.
- 400lb. Total wt
- Returns to top at rest
- Perfect die alignment
- Incredibly compact
- Portable (maybe)



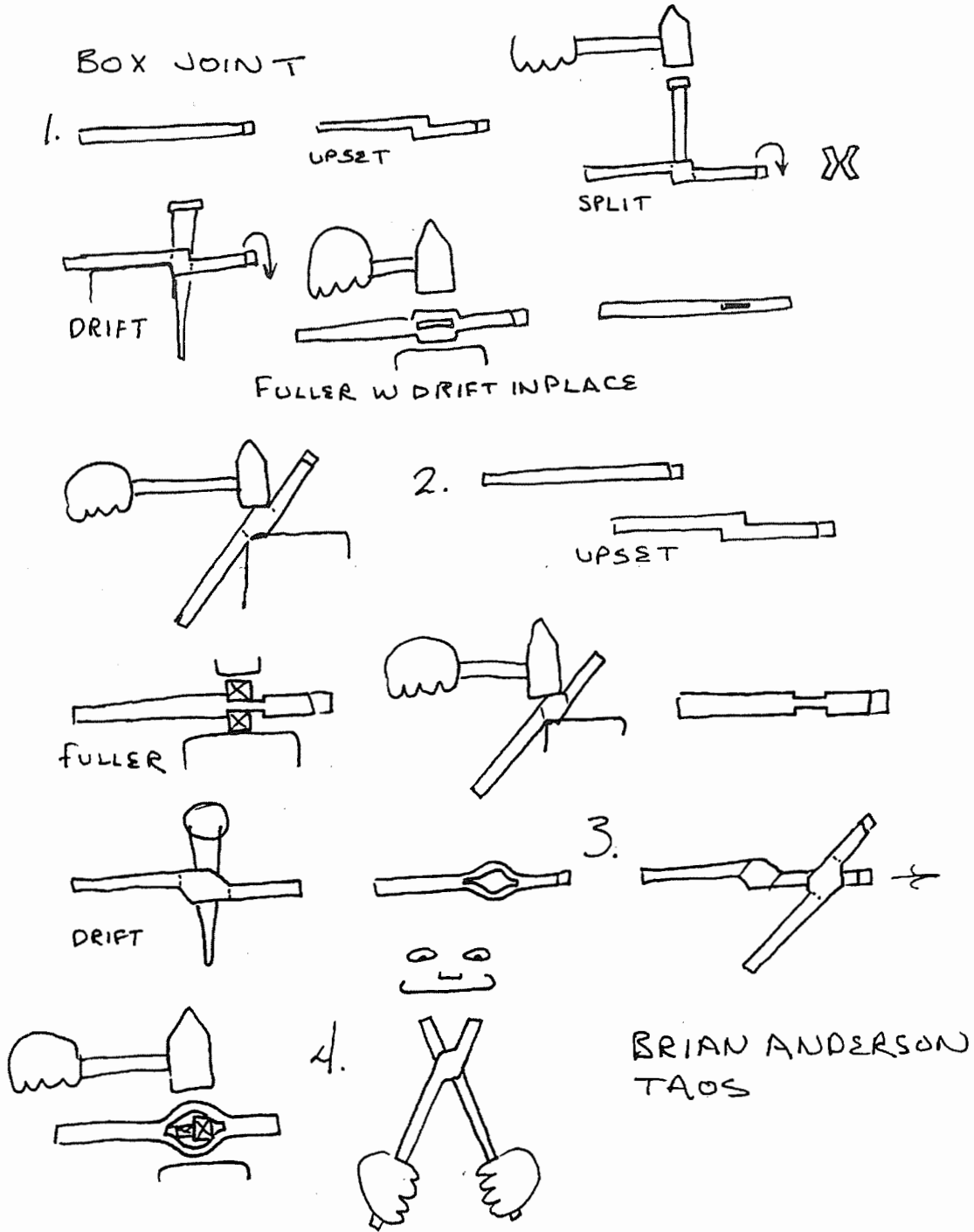
1318 S83rd st.
Tacoma, WA 98408

\$3,650.00 U.S.
(no discount applies to this item)

Free Freight in the 48



Box Joint

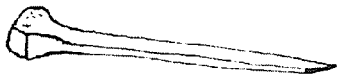


From The Pounders Press
 Voice of the Southwest Blacksmith Association of
 North America



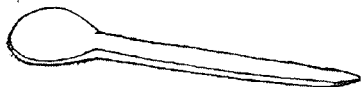
MEDIEVAL SPOON FROM HORSE SHOE NAIL

1



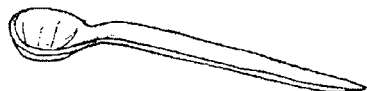
Horse Shoe Nail

2



Heat - flatten head
1/16 - 3/32 thick

3



Same heat - form bowl
with punch/die set

4



Full or 1/2 twist on shank
(Full done hot; 1/2 warm)

5



Return loop on shank

NOTES:

- Derry can do these in a torch flame and in one heat. I can't.
- See sketch "Spoon Bowl Punch Set"
- He also uses a modified set of pliers to grip the spoon bowl while hot to twist shank.

FINISH

- Quench
- Tumble Clean
- Wax/Oil finish

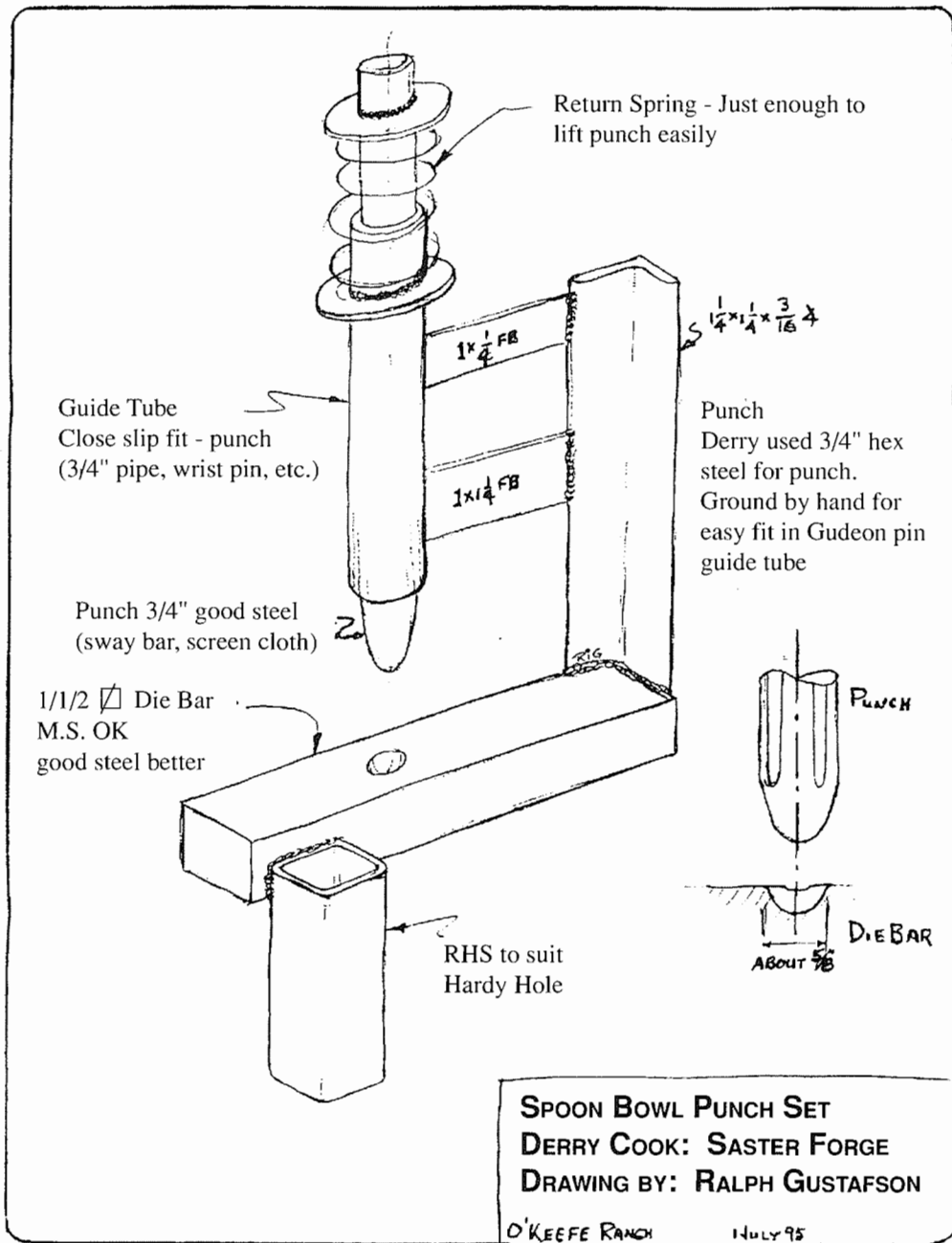
MEDIEVAL SPOON FROM HORSE SHOE NAIL
DERRY COOK: SASTER FORGE
DRAWING BY: RALPH GUSTAFSON

O'KEEFE RANCH 1 JULY 95

Reprinted from Vancouver Island
Blacksmith Association newsletter



SPOON BOWL PUNCH SET



Reprinted from Vancouver Island
Blacksmith Association newsletter

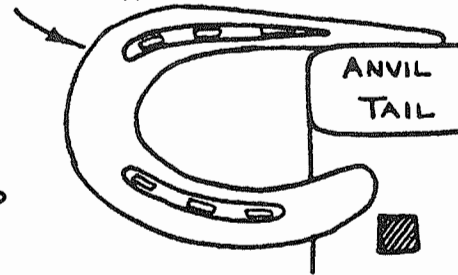


For Craft Shows
 A PROJECT BY CLARK POWELL
Horse Shoe Hat and Coat hook
 THE OCMULGEE BLACKSMITHS GUILD - GEORGIA

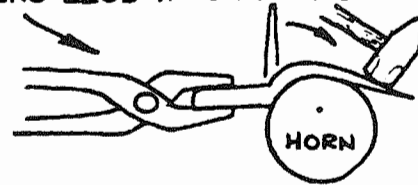
BECAUSE OF MOST FOLKS' SHORT ATTENTION SPAN, QUICK PROJECTS SUCH AS THIS ONE WORK WELL WHEN WORKING IN FRONT OF THE PUBLIC. COLLECT USED SHOES FROM FARRIERS OR RIDING STABLES TO SAVE \$.

STEP 1 • DRAW OUT ABOUT 1/3 OF EACH LEG OF THE SHOE TO A LONG TAPERED POINT OVER HORN THEN OVER THE TAIL OF THE ANVIL.

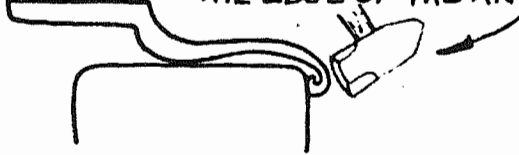
STEP 2. WITH SHOE FACE DOWN ON ANVIL, BEND EACH LEG DOWN AGAINST SIDE OF ANVIL FORMING 90° BEND



STEP 3 • OVER THE HORN OF THE ANVIL, BEND LEGS INTO AN ARC.

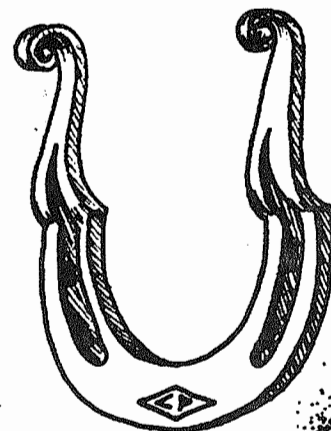


STEP 4. FORM SMALL PIGTAIL SCROLL ON TIP OF EACH LEG OVER THE EDGE OF THE ANVIL.



STEP 5 • FINISH WHILE STILL WARM BY VIGOROUS WIRE BRUSHING THEN COATING WITH 50/50 MIX OF TURPENTINE AND LINSEED OIL.

TIP: SAVE THE LARGER SHOES AND BY USING THE SAME STEPS YOU CAN MAKE GUN RACKS. JUST ADD RED OR GREEN FELT FABRIC TO THE BACK SIDE WITH CONTACT CEMENT. NAIL A PAIR TO AN OLD WEATHERED BOARD. IF YOU CAN'T FIND OLD WOOD, YOU CAN ARTIFICIALLY AGE NEW PIECES OF 1x6 LUMBER BY SANDBLASTING IT OR GOING OVER IT WITH A WIRE CUP BRUSH IN YOUR SIDE GRINDER. PUT IT OUT IN THE WEATHER FOR A MONTH OR SO AND IT WILL TURN GRAY AND LOOK LIKE IT'S 50 YEARS OLD.



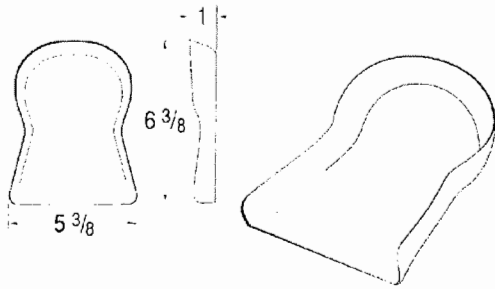
ILLUSTRATED BY:
D. Johnson

Sept '94



VALLEY FORGE AND WELDING

Tools for the Artist Blacksmith



Fireplace Shovel Blanks

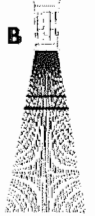
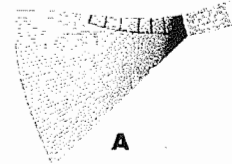
Valley Forge and Welding creates these shovel blanks by the hundreds to save you time and money. Forge your own unique handle and rivet together.

500-5 (five) (3 lb.)	\$23.75
500-10 (ten) (5 lb.)	45.50
500-25 (twenty five) (12 lb.)	108.75

Call for volume pricing!

Brooms

These very high quality, hand-made brooms will give your fireplace tool sets an outstanding, eye catching appearance. Sets your product apart from the rest.



Turkey Wing Broom

(Fig. A) 9" W x 13" Lg.

600-1 (2 lb.)	ea. \$14.75
600-5 (five) (4 lb.)	70.00
600-10 (ten) (8 lb.)	137.50
600-25 (twenty five) (18 lb.)	325.00

Whisk Broom

(Fig. B) 6" W x 13" Lg.

700-1 (2 lb.)	ea. \$12.75
700-5 (five) (4 lb.)	60.00
700-10 (ten) (8 lb.)	117.50
700-25 (twenty five) (18 lb.)	275.00

Broom & Shovel Sets

Buy the sets and save on both.

Turkey Wing brooms & shovel blanks.

650-5 (five) (7 lb.)	\$84.50
650-10 (ten) (13 lb.)	164.75
650-25 (twenty five) (30 lb.)	390.00

Whisk brooms and shovel blanks.

750-5 (five) (7 lb.)	\$75.50
750-10 (ten) (13 lb.)	146.75
750-25 (twenty five) (30 lb.)	345.50

Treadle Hammer Kit

Kit requires drilling and welding. All material required for completion is furnished except for the lead used for head weight. All parts are cut and mitered and all hole locations have been center-punched. Assembles in 7 to 10 hours. Easy to follow assembly instructions are included.

- Head weight : 60 pounds.
- Work space opening: 20"
- 71" high max. x 15" wide x 60" deep.
- Suggested work area: 36" wide x 60" deep.

Treadle Hammer Kit

300 (190 lb.)	\$525.00
---------------	----------

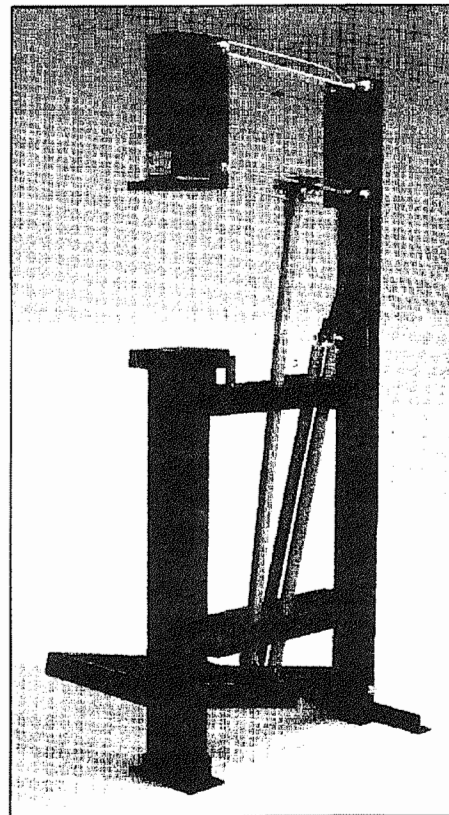
Treadle Hammer Plan Set

301 (1 lb.)	\$15.00
-------------	---------

Treadle Hammer Hardware Kit

All the bits and pieces of hardware required to build the Valley Forge treadle hammer. Full set of plans and instructions plus all the required nuts, bolts, washers, springs, cables, etc. needed to assemble your own treadle hammer.

302 (27 lb.)	\$125.50
--------------	----------



Our Simple Guarantee

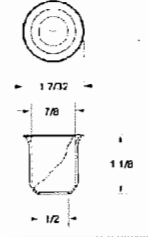
If any item ever fails to provide satisfaction due to defects in material or workmanship, return the defective item for immediate replacement.

(707) 459-2523 Tech Support (800) FOR-JERE (367-5373) ORDER HOTLINE (8:00 AM to 5:00 PM PST)



Inswool™ (not shown) **NEW!**
Refractory insulation used to line interior of gas-fired forges. 24" wide, available in 1" and 2" thicknesses. One lineal foot minimum order.

IW-1 (1") (2 lb. per running foot) per foot **\$6.00**
IW-2 (2") (4 lb. per running foot) per foot **11.75**

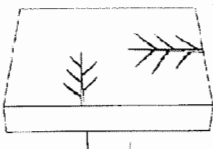


Candle Cup
Simplify your work by using these ready-to-use candle cups. Save time and money. Save even more money by ordering fifty pieces. For standard tapered candles, 16 ga. mild steel.

510-10 Ten pieces (2 lb.) **\$12.50**
510-25 Twenty five pieces (5 lb.) **27.50**
510-50 Fifty pieces (8 lb.) **45.00**

Instough™ (not shown) **NEW!**
Spray on newly installed Inswool to help stabilize the insulation. Eight ounce container.

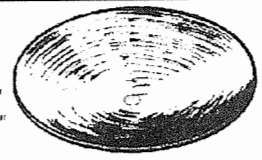
IT (8 fluid oz.) (1 lb.) **\$3.85**



Candle Pans

3" Candle Pan
3" diameter with 7/32" hole to weld over 3/16" nail. 18 ga.

520-10 Ten pieces (2 lb.) **\$12.50**
520-25 Twenty five pieces (5 lb.) **27.50**
520-50 Fifty pieces (8 lb.) **45.00**



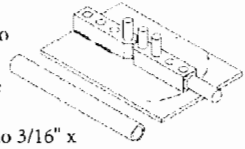
Tomahawk Handle **NEW!**
These handles are the best available. Made of straight grain hickory. Fits TD-1 Tomahawk Drift.

HB-1 (2 lb.) ea. **\$5.95**
HB-5 (five) (5 lb.) **28.75**
HB-10 (ten) (8 lb.) **55.00**

Leaf Veiner
Use to forge more realistic leaves with raised veins.
3" x 4" x 1/2".
104 (4 lbs.) ea. **\$26.50**

Pin Bender
No more will you have to use bending forks to make scrolls. Makes nice flat scrolls with no "cork screw" effect. Bends up to 3/16" x 1". A must-have tool for the artist blacksmith shop. Pins are made of high carbon, high abrasion steel. Size: 6" x 9". Held in vise.

106 (10 lb.) ea. **\$65.00**



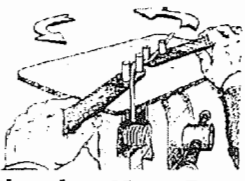
Twisting Wrench
Convenient and easy to use tool for twisting 1/4, 3/8, 1/2 and 5/8" stock. 16-1/2" long x 1/2" thick.

101 (5 lb.) ea. **\$19.75**



Claydon Knot Bender
Use this tool to build unique handles for fireplace tool sets, curtain rod ends, etc. Comes ready to use with fully illustrated instructions.

105 (10 lb.) ea. **\$32.50**



Shown right is an example of one of the designs possible with the Claydon Knot Bender.

3 3/4" Candle Pan
3 3/4" diameter with 7/32" hole to weld over 3/16" nail. 16 ga.

530-10 Ten pieces (2 lb.) **\$15.50**
530-25 Twenty five pieces (5 lb.) **36.25**
530-50 Fifty pieces (8 lb.) **65.00**

Dipper Bowl **NEW!**
Make your own handles for these old time dippers. Finish off your spatula and fork set. Available in 18 ga. steel or .032 brass. 4" diameter x 1 5/8" deep



Spun Steel Dipper Bowl

540-5 five pieces (3 lb.) ea. **\$21.50**
540-10 Ten pieces (6 lb.) **41.50**
540-25 Twenty pieces (15 lb.) **100.00**

Spun Brass Dipper Bowl

550-5 five pieces (3 lb.) ea. **\$31.50**
550-10 Ten pieces (6 lb.) **61.50**
550-25 Twenty pieces (15 lb.) **150.00**

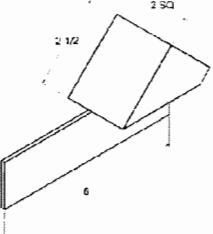
1" Belt Sander Plan Set
Build your own rugged, heavy duty belt sander from easy to use plans. Designed for the metal worker and artist blacksmith. Use for deburring, shaping blending, etc. Uses 1" x 42" abrasive belts. Designed for NEMA 48 frame size 1725 rpm motor.

401 (1 lb.) ea. **\$15.00**



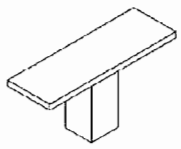
Vise Angle Block
Used in the vise as a backstop while doing chisel work, as in making wizard heads. A handy tool to have in the shop.

100 (4 lbs.) ea. **\$22.50**



Vise Spacer Set
These handy spacers permit holding pieces of stock on one side of a vise without racking the jaws. 1/4, 3/8, 1/2, 5/8, 3/4 & 1".

102 (3 lb.) ea. **\$25.00**



Anvil Saddle
Ideal for those hard to forge items such as barb-que forks. Work a variety of split items without bending one of the tines back on itself.

103 (6 lb.) ea. **\$18.00**



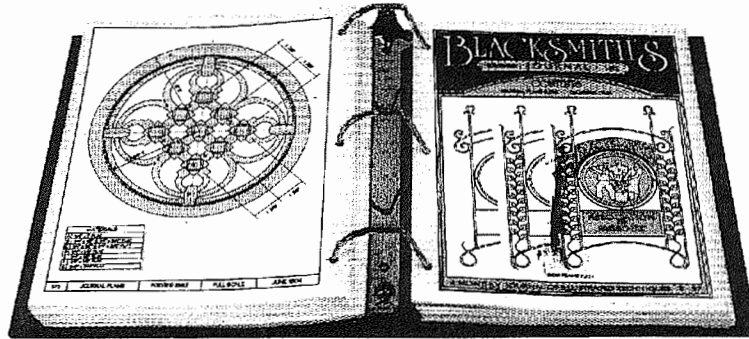
(707) 459-2523 Tech Support (800) FOR-JERE (367-5373) ORDER HOTLINE (8:00 AM to 5:00 PM PST)

Jere Kirkpatrick's
Valley Forge & Welding
30-C E. San Francisco, CA 95490

North West Blacksmith Association

Blacksmith's Journal

584 pages, 174 topics, 2130 illustrations



The most comprehensive source of blacksmiths' information available.



Four years of Blacksmith's Journal back issues available in a silver foil embossed ring binder. Everything from basic techniques to step by step projects found in a single volume.



The "Smithing Magician", originally covered as a project in the Journal is now available completely assembled. Included is one tool steel die blank that can be made into any shape for top and bottom tool forging operations. additional die blanks are available.



Yearly back issue volumes (150 pages each) bound in color coded silver foil embossed post binders. Add to your collection one volume at a time. Single back issues are also available.

Published monthly, the Journal is a continually growing source of information. One and Two year subscriptions and back issues can be ordered by filling out the order form below. Mail it to: Blacksmith's Journal, P.O. Box 193, Washington, MO 63090 to receive the most comprehensive source of blacksmiths' information available. For additional information please call (314) 239-7049.

Note - Prices may have changed since this flier was printed. ed

Send this form and your payment in an envelope to: Blacksmith's Journal, P.O. Box 193, Washington MO 63090. Please allow 4-6 weeks for delivery of first issue.

	Qty.	Price	Sub Total
Four year back issue volume		\$140	
One year back issue volume		\$38 <input type="checkbox"/> Vol 1 <input type="checkbox"/> Vol 2 <input type="checkbox"/> Vol 3 <input type="checkbox"/> Vol 4	
Subscription		<input type="checkbox"/> 1yr: \$30 <input type="checkbox"/> 2yr: \$52	
Smithing Magician		\$260	
Total			

Mastercard/Visa Check/Money Order

Name _____

Address _____

City/State/Zip _____

Phone _____

North West Blacksmith Association



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

Now, A Monthly Blacksmithing Publication!

We'll Welcome You as a regular reader of our Monthly Newspaper.

Here's what you'll get:

- A complete and timely list of Coming Events.
- Lot's of fine how-to articles on blacksmithing.
- News about what's happening in blacksmithing circles.
- Each subscriber gets one free classified advertisement per year.
- Monthly Publication—12 issues per year.

Please annotate any changes in your address on the reverse side, indicate the period you're signing up for below, and send this card with your check, cash, or money order to:

Blacksmith's Gazette
 950 South Falcon Road
 Camano Island, WA 98292

Here's the deal:

- \$30.00 per year (12 issues)
- \$50.00 for two years (24 issues)
- \$70.00 for three years (36 issues).

YES!
 Sign Me Up.
NOW!

Don't Delay. Do it Today!

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

CLEAN FINISH

ALL 3/16" BAR SIZES ARE 20% OFF OUR REGULAR PRICES *

ALL 1/4" BAR SIZES ARE 10% OFF OUR REGULAR PRICES *

HR ANNEALED 440C

CLEAN FINISH

ALL 1/8", 5/32", 3/16", & 1/4" BAR SIZES ARE 10% OFF OUR REGULAR PRICES *

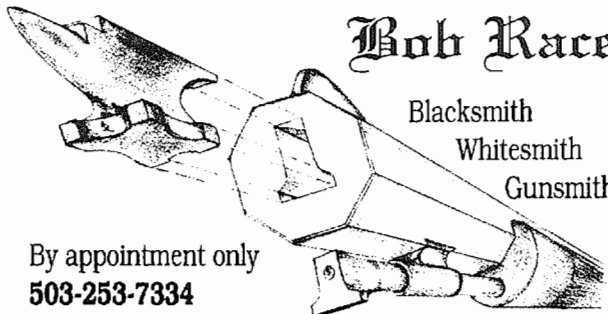
STANDARD SIZES - SPECIAL SIZES - ON SALE!!! - LARGE SHEETS AND PLATES ALSO AVAILABLE - CALL TODAY!!!
 * DISCOUNTS BASED OFF OF OUR REGULAR PRICES FROM OUR PRICE LIST DATED 3/10/95



4152 WEST 123RD STREET - ALSIP, IL 60658

PHONE: (800) 323-7055 FAX: (708) 388-9317

INTERNET: admiral@mcs.com



Bob Race

Blacksmith
 Whitesmith
 Gunsmith

By appointment only
 503-253-7334



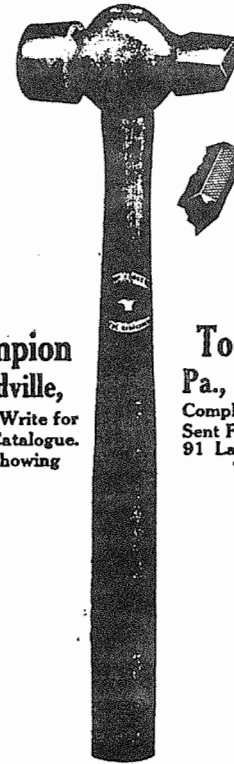
Dale the Tinker

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

YOU

OWE IT TO YOURSELF TO USE THE BEST TOOLS TO ASSIST IN YOUR WORK



Champion Meadville,
 Write for Catalogue. Showing

Tool Co. Pa., U. S. A.
 Complete Sent Free. 91 Labor Saving Tools

No. 12 Electric Sharpening Hammer

Weights 1 1/2 to 3 lbs.

Corrugated Pin prevents shoe slipping from anvil, making every blow count.

Drop Forged
Correctly Tempered
Swings Just Right



Rocky Comfort Forge & Video Productions

Rocky Comfort Forge & Video Productions presents the first in a series of educational blacksmithing video tapes now available, featuring demonstrators from the 1994 Florida Artist Blacksmith Association Annual Conference at Barberville, Florida and the 1995 Southeast Regional Blacksmith Conference at Madison, Georgia. Tapes are sold individually or in sets. Individual demonstrations range from one to four tapes. For a more detailed listing of what is included on individual tapes in a series, please call or write and ask for our extended order form.

Note: FABA Conference videos are produced in cooperation with FABA, which receives a portion of the proceeds.

- Jerry Darnell - 18th Century Lighting**
- BD94 L1 Tape 1 - One light table lamp
 - BD94 L2 Tape 2 - One light table lamp
 - BD94 L3 Tape 3 - Rush Light

- Jerry Darnell - 18th Century Hardware**
- BD94 H1 Tape 1 - Suffolk door latch
 - BD94 H2 Tape 2 - Suffolk door latch
 - BD94 H3 Tape 3 - Strap hinges
 - BD94 H4 Tape 4 - Strap hinges pintles

- Jerry Darnell Lighting and Hardware**
- BD94 C7 Set of all 7 Tapes

- Doug Herrickson - Kitchen Iron**
- MH95 1 Tape 1 - Cheese slicer, Skillet
 - MH95 2 Tape 2 - Skillet handle, Bracket, Tips
 - MH95 3 Tape 3 - Shovel, Chopper, Dipper
 - MH95 4 Tape 4 - Shovel, Handle, Striking

- Walt Scadden - Architectural Iron**
- MS95 1 Tape 1 - Scrolls, Collars, Bends
 - MS95 2 Tape 2 - Collars, Gate tips
 - MS95 3 Tape 3 - Rallings, Scrolls, Bulsness
 - MS95 4 Tape 4 - Rallings, Repairs, Bulsness

- Clay Spencer - Treadle Hammering**
- MCS95 1 Tape 1 - Forging items on treadle
 - MCS95 2 Tape 2 - Forging tools, Use of dies

- Jeff Mohr - Fireplace Equipment**
- MM95 1 Tape 1 - Fireplace set
 - MM95 2 Tape 2 - Shovel, tongs, Stand, Tips

PRICES

- 1 Tape \$24
- 2 Tapes \$45
- 3 Tapes \$70
- 4 Tapes \$90
- 5 Tapes \$105
- 6 Tapes \$126

Over 7 - \$21 each additional tape

Prices do not include shipping and handling

SHIPPING & HANDLING

- U.S.** 1 -3-ITEMS \$4.00
4 or more \$6.00

- Canada & Mexico**
1 - 3 ITEMS \$6.00
4 or more \$9.00

Other Countries
Please add 20% to the total order.

C.O.D. Please add \$7.00 to the (U.S. orders) above rates.

Free shipping on orders over \$100.00

TO ORDER:

Rocky Comfort Forge & Video Productions
Mail to: Rt. 3 Box 3678
Quincy, Florida 32351
904-627-7949

Make check or money order payable to Rocky Comfort Forge & Video Productions. If ordering from FLORIDA ADD 7% SALES TAX. Street address required for UPS.

NAME _____		
ADDRESS _____		
CITY _____	STATE _____	ZIP _____
PHONE # (H) _____ (W) _____		

item #'s _____	Subtotal _____	
	Tax _____	
	Shipping _____	
	Total _____	

Your satisfaction is guaranteed. If you are not satisfied with an item simply return it within 30 days for a full refund. Please allow checks 15 days to clear. Payment must accompany order.



TECHNIQUES AND APPLICATIONS OF TRADITIONAL JOINERY IN IRON

INSTRUCTOR: Japh Howard
LOCATION: Don Kemper's Blacksmith Shop
DATE: November 3, 4, 5, 1995
CONTACT: Don Kemper
 20100 N.W. 61st Ave.
 Ridgefield, WA 98642
 (360) 887-3903



Japh has no ideological objections to the use of an arc welder to join steel. In this class however, we will only deal with non-arc welded fastenings. During this 2 1/2 day workshop, Japh will make a section of a gate employing as many different methods of joining iron as possible - - AND discuss why he chose each technique for each part of the gate; from the structural, as well as the aesthetic point of view.

Discussion and demonstration will alternate with hands on practice. Students will each make sample pieces and all participants will take home a three dimensional set of notes for future reference. The workshop is limited to 8 students who will work in teams of two (one anvil/gas forge per team). Participants must furnish own hand tools, anvil, forge and gas -- iron to produce samples will be furnished as will coffee, juice, rolls and a smile!



WANTED: 25lb Little Giant or similar power hammer. Marten Stone, Bandon, OR. (503) 347-9047

ANVIL CASTING PROJECT
 I am currently negotiating with a foundry to have a batch of 250 - 275# anvils cast. The cost is dependent on how many we make. All interested parties should call me. Mon - Fri, 10:00 a.m. - 5:00 p.m. at (206) 382-0694 or (206) 860-0586. Matthew Tilton

LOANER: Blacksmith videos. Don Kemper has the Clifton Ralph tapes. Get on the mailing list and send \$4.00 to Don for postage. These are multiple tapes with many hours of entertainment. Don Kemper, 20100 N.W. 61st. Ave. Ridgefield, WA 98642.

ANNOUNCING
New How-To Manual for
Beginning Blacksmiths
101 Metal Projects for
the Novice Blacksmith

by Al A. Cannella
 This is a "how-to" shop manual for beginning blacksmiths with step-by-step explanations and clear drawings to insure successful completion of each project.

Postpaid in U.S. \$29.00
 Canada \$29.50
 Al and Lida Cannella
 1310 Walter Reed Rd.
 Cookeville, TN 38501

Remember the plain old fashioned belt dressing in a tube. Peat Belting and Supply has it! Leather and synthetic line shaft belting.



PEAT BELTING & SUPPLY CO.
 2430 1ST AVE. SO.
 SEATTLE, WA. 98134

REX HOLT
 OFF. 623-5130
 RES. 431-0559

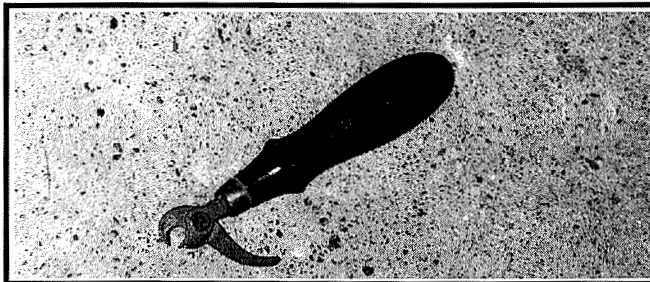
Antler and Iron II

A forty page booklet on building an antler handle Mt. Man folder, step by step. 100+ photos and illustrations.
 \$14.00 postpaid, Wa St. Tx \$96
 \$1.00 for brochure
 Gene Chapman, Bladesmith, P.O.
 Box 1038, Kingston WA, 98346



Whatsit@?#?

Whatsit brought
by Dan'l Moore
to 15th anniversary
fall meet.
Any ideas?

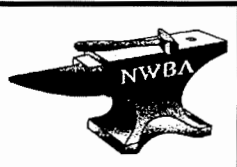


We received no replies to the Stanley Tool submitted by Tom Richards in the last issue.

**American Blacksmith Reprint and Nautical Iron Prints
available at the Fall Conference.**

Thanks, NWBA members and ABANA Chapters for Articles,
photos, and letters. The Hot Iron News is for all of us. ed

HOT IRON NEWS
GENE CHAPMAN, EDITOR
P.O. BOX 1038
KINGSTON, WA 98346



THIRD CLASS
U.S. POSTAGE
PAID
KINGSTON, WA
PERMIT NO. 24

**FORWARDING AND ADDRESS
CORRECTION REQUESTED**