

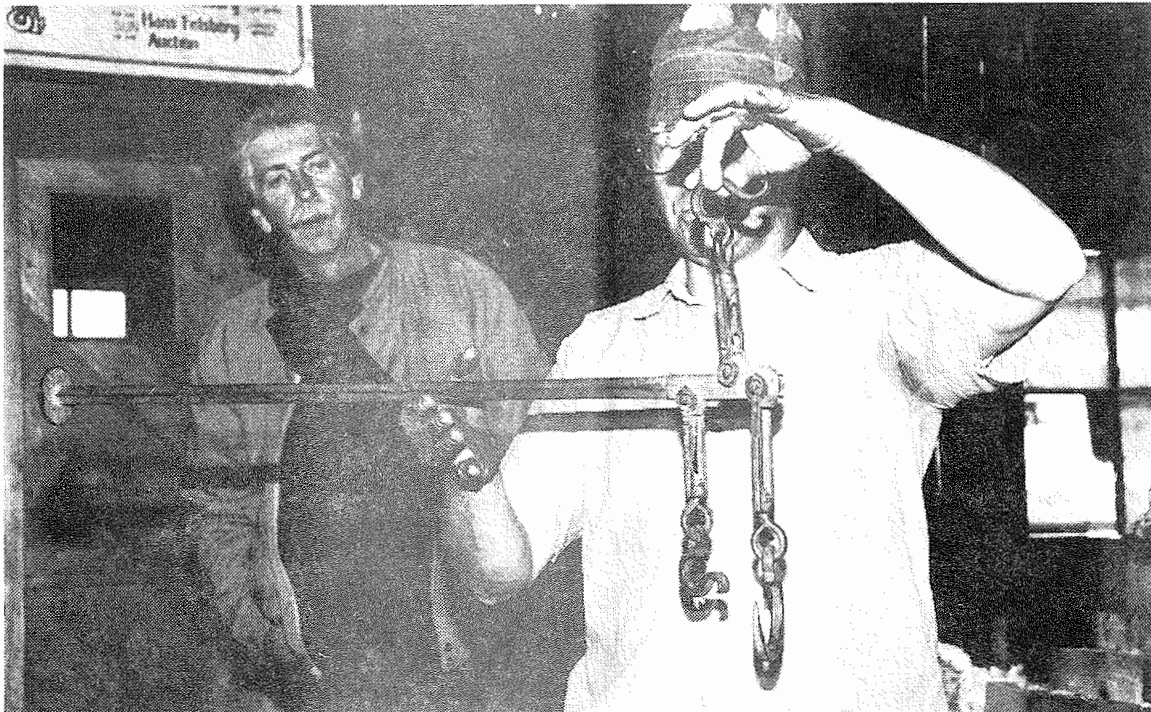
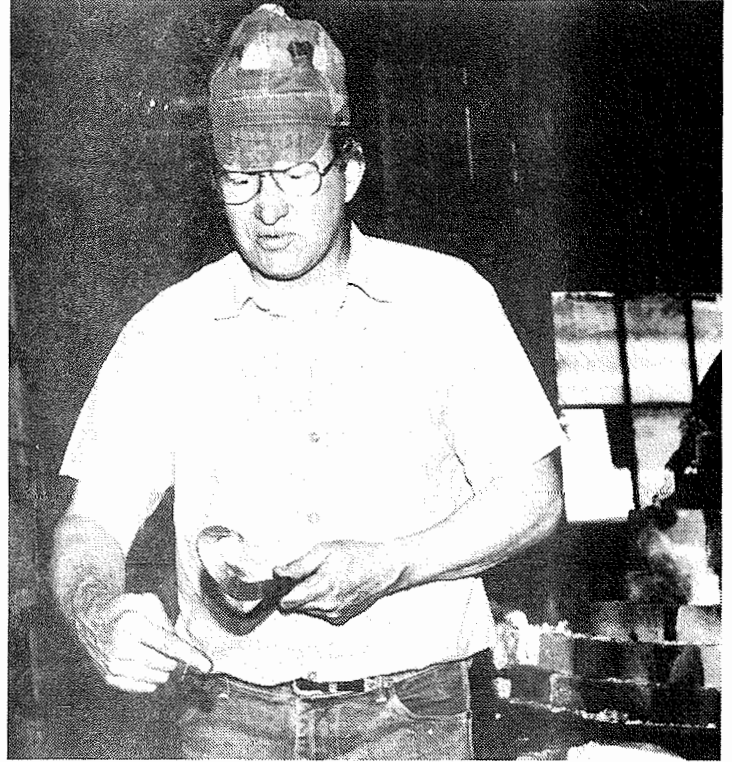


CHAPTER OF ABANA

Hot Iron News

APRIL 1987 -- Voice of the Northwest Blacksmiths Association

FRANK TURLEY WORKSHOP ENJOYED BY ALL



Photos -
Lloyd Hedglin

STEEL YARD - ORIGIN MEXICO - EST. 150 yrs. old

N. W. B. A.
Box 81041, Seattle, WA

1987 Officers and Board Members

President: Darryl Nelson
36914 Meridian E.
Eatonville, WA 98328
206-832-6280

Phil Baldwin
P.O. Box 71043
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206-284-9044

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206-385-5272

Sec.-Treas: Howard Swanson
5800 - 17th Ave. So.
Seattle, WA 98108
206-762-7123

Gene Chapman
27449 Baywood Dr. N.E.
Kingston, WA 98346
206-297-2495

Editor: Terry Carson
36914 Meridian E.
Eatonville, WA 98328

Turley Workshop

As you can see from the notes and photos Franks demos, lecture and stand up comedy routines were informative and enjoyed by all.



Fall Gathering

The tentative dates for the fall gathering are Oct. 17 & 18 at Old Cedar Forge in Allyn, Wn. Our scheduled demonstrator is Tom Joyce of Santa Fe who always gives a good show.

DON'T FORGET! MAY IS RENEWAL TIME

Dues are Due
May is renewal time so get off your duffs and send in your dues.

SPRING GATHERING

The spring gathering will be held at Ike Bays near Hillsboro, Oregon May 9th & 10th. Our demonstrator is Ivan Bailey who studied with Professor Fritz Ulrich of Germany in 1971-72. He demonstrates steel carving, inlaying, glass fusing with steel, and methods of sheet forming-repousse/chasing. He lectures on blacksmithing in Germany, shop layout, publicity, client relations, pricing and designing for iron.

This year we are having beef as the main course with salads and deserts potluck as usual.

KNIFE WORKSHOP

There will be a knife making workshop held at Dave Thompsons shop in Eugene, Oregon May 16 & 17. Instructors will be Gene Chapman, Wayne Goddard, and Dave Thompson. The emphasis will be on forge welding, metalurgy of the forge welded blade, heat treatment and blade testing, and gas forge operation. Contact Gene at 206-297- 2495.

CASTING

Mike Falk, a sculpture and art instructor, will be giving a casting workshop June 19th, 20th and 21st. Projects will include each participant doin a small bronze done using the lost wax method and an aluminum pour. Sign up before May 22nd by contacting Gene Chapman 297-2495.

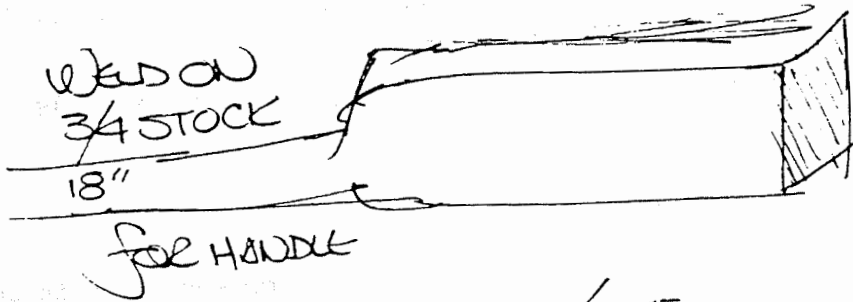
ON APRIL 11 & 12, 1987 A VERY FEW OF US WERE FORTUNATE TO WITNESS FRANK TORLEY FROM SANTO FE DO HIS THING. A MASTER BLACKSMITH, AND SUPERB TEACHER WITH A KIND OF WONDERFUL "GRADEW" SENSE OF HUMOR.

WHAT FOLLOWS ARE SKETCHES & QUOTES MADE WHILE THE WORK WAS BEING DONE.

W^m MARTINEZ

HAMMER MAKING THE TORLEY WAY.

TORLEY WORKSHOP
11 APRIL '87 @ FIRE MT. FORGE
EATONVILLE, VA.

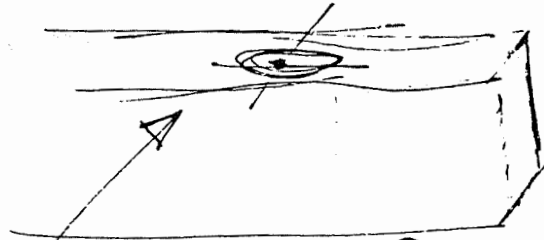


1 5/8" \square MTL
4340 STEEL

FORGE: BRIGHT
RED.

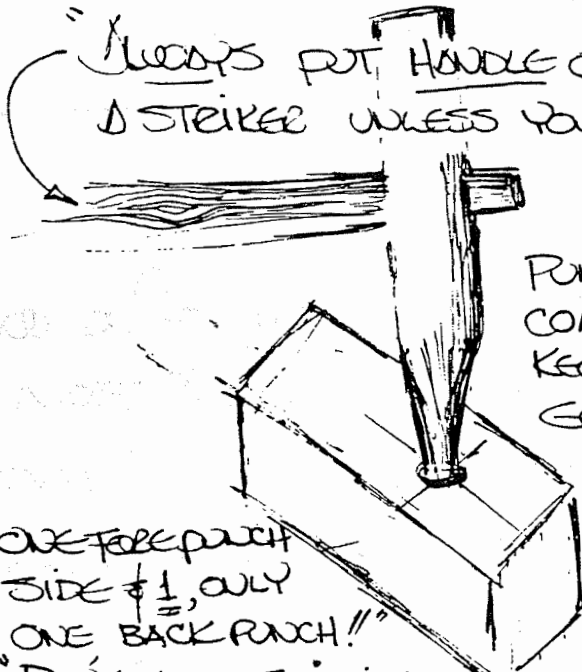
NORMALIZE *
1600-1700°F

ANNEAL **
1500-1550°F
HARDEN *



LAY OUT HALF FROM KNOWN HAMMER.
(PREF: ONE YOU LIKE.)

"ALWAYS PUT HANDLE ON TOOLS USED UNDER
A STRIKE UNLESS YOU WANT TO BE A DIPSTICK!"
:TORLEY '87.



PUNCH HOLE W/A LITTLE
COOL DUST
KEEP PUNCH COOL
GO @ LEAST 1/2 WAY THRU.

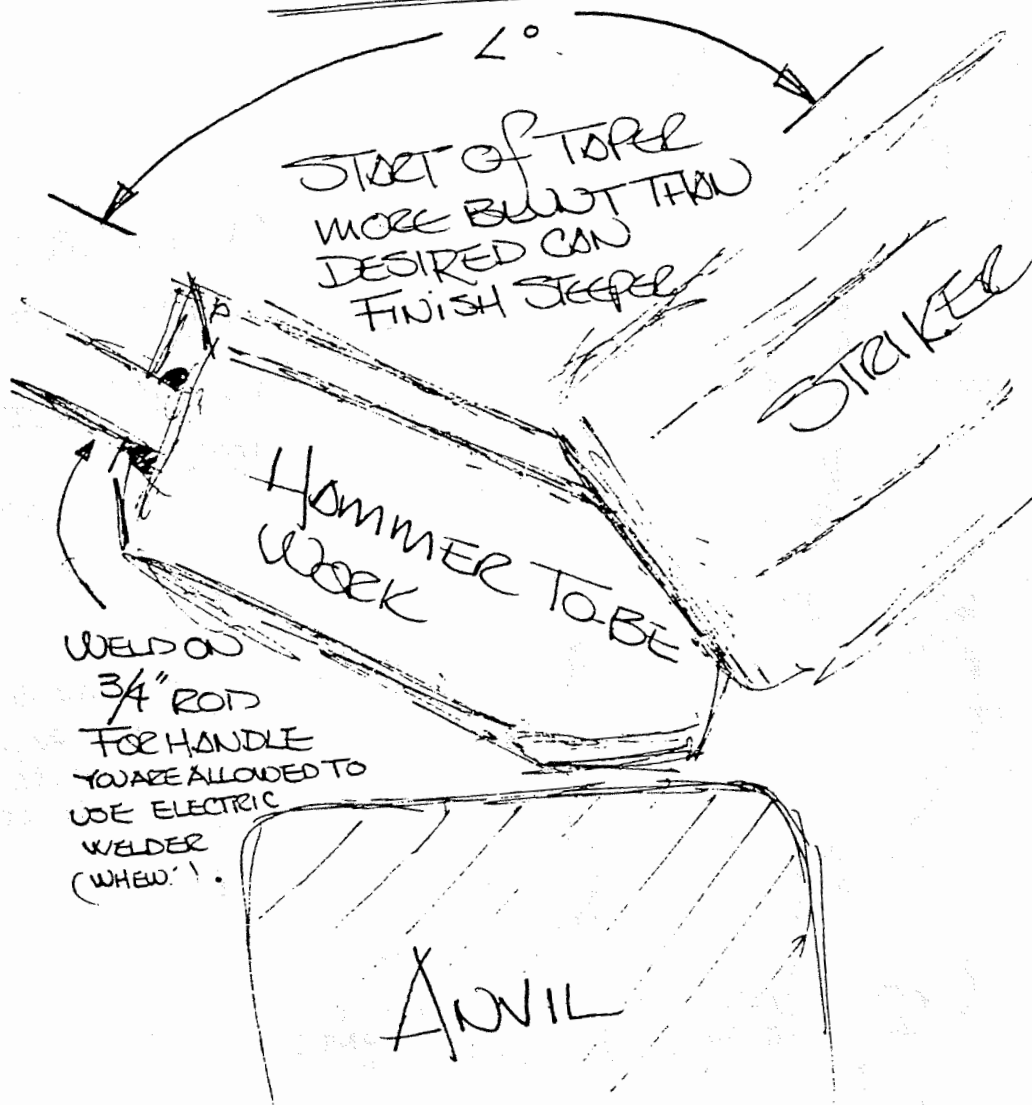
"OVER THE PUNCH
SIDE \neq 1, ONLY
ONE BACK PUNCH!"
"DON'T KEEP TURNING THE
WORK."
:TORLEY '87.

WAS MARTINEZ

- * "SOAKED" IN THIS CASE WITH GAS FORGE TO LET THE "KINKS" OUT.
- ** OVERNIGHT IN BUCKET OF ASH OR LIME, ETC. TO COOL VERY SLOWLY. IT SOFTENS THE MATERIAL & HOPEFULLY REMOVES FORGING STRESSES.
- *** ACCORDING TO MACHINERY HANDBOOK: QUENCHED IN OIL @ 1475 - 1550°F. OIL SHOULD BE CLEANED OCCASIONALLY.

TURLEY 12 APRIL
1987

HAMMER-MAKING



* RECOMMENDED TEXT FOR ALL METAL SHOPS: W. W. MARTINEZ

REF: "MACHINERY'S HANDBOOK" FOR
JUNK YARD STEEL CHARACTERISTICS, ETC. ETC.

≠ FOR THOSE THAT USE 1951 BACK AXLES, ETC.

AUTHOR: ERIK OBERG & F. D. JONES
(1968 EDITION)

INDUSTRIAL PRESS INC.
200 MADISON AVE.
NEW YORK, N.Y. 10016.

HAMMER MAKING

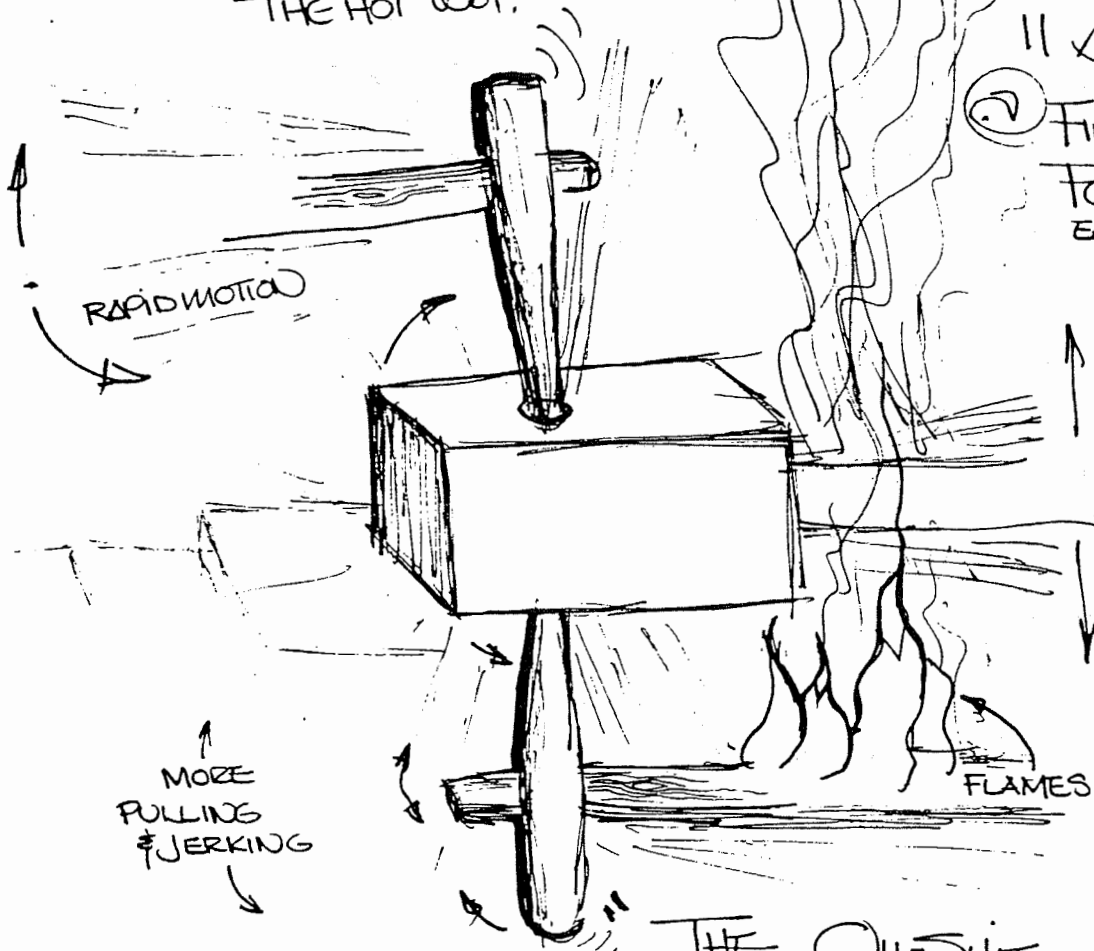
HOLE PUNCHING
THE HOT WAY!

Tuley Workshop

11 April 87

Free Mountain

FORE
EATONVILLE, WASH.



↑ ↑ ↑
RAPID MOTION!
LASTING APPROX
1 MINUTE
≈ 57 SECONDS

THE OH SHIT
 NORTHWEST - CHINESE-FIRE-DRILL
 2 STRIKER \$ 1 (ONLY ONE) PISSED
 LECTURER "Hole Punch!!" (whew)

AFTER THE HANDLES BURNED ON THE ANVIL, THE REST OF THE HAMMER MAKING LESSON WAS NOT AS INTERESTING!

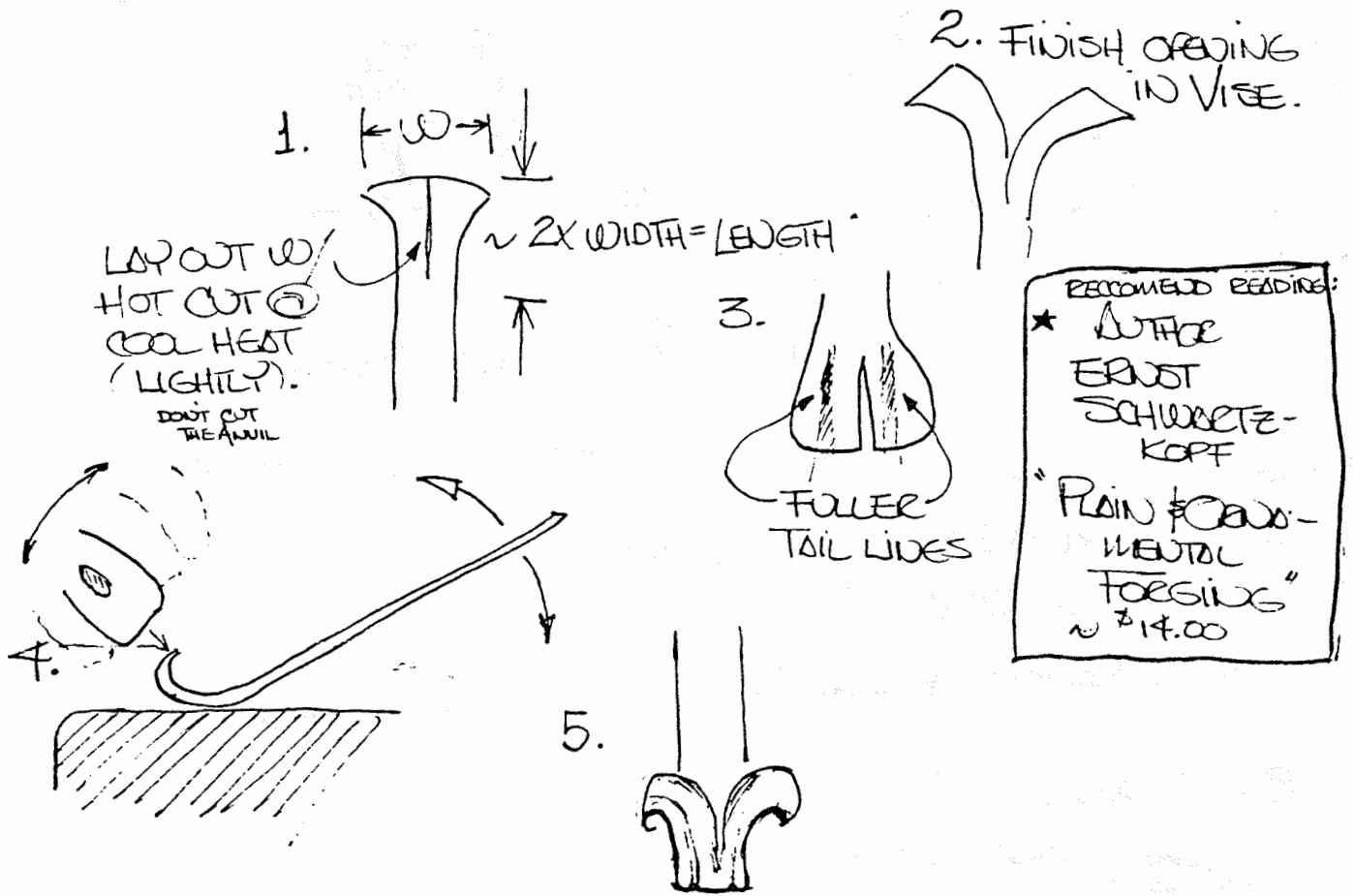
AT ANY RATE, IT ENDED UP LOOKING LIKE THIS:



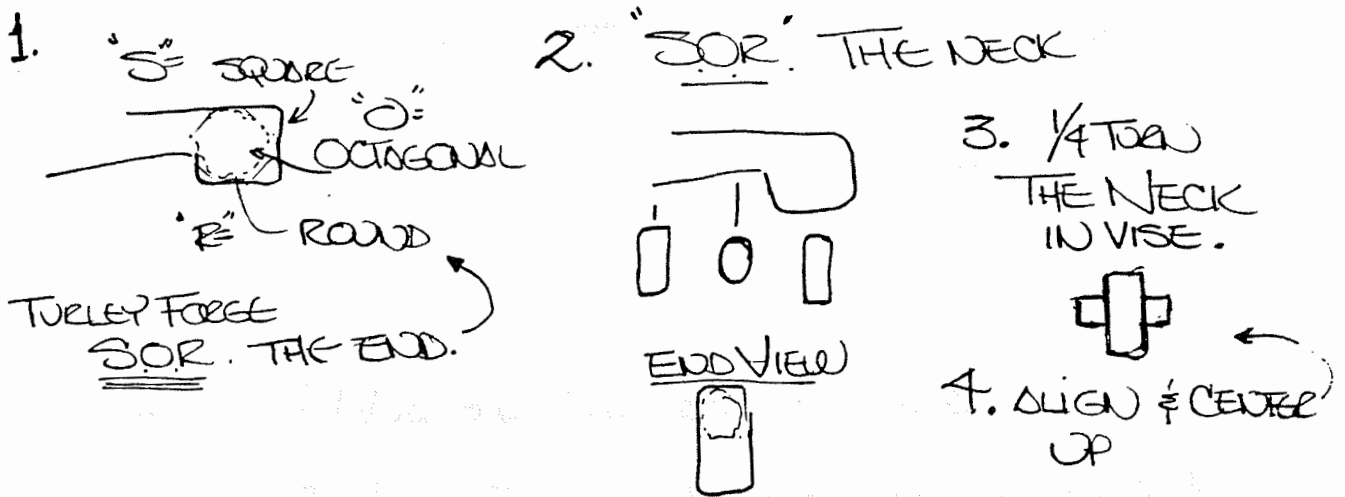
: WM MERTIGEE
GREAT MEN
DON'T MIND BEING LAUGHED WITH!

TURLEY 12 APRIL
1987. @ EATONVILLE
WASHINGTON

SPLIT
FISH TAIL (TAIL) SCROLL

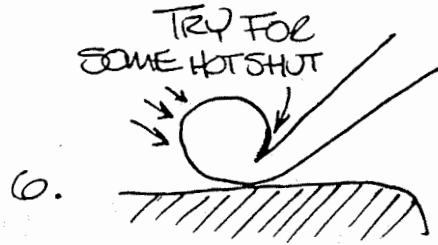
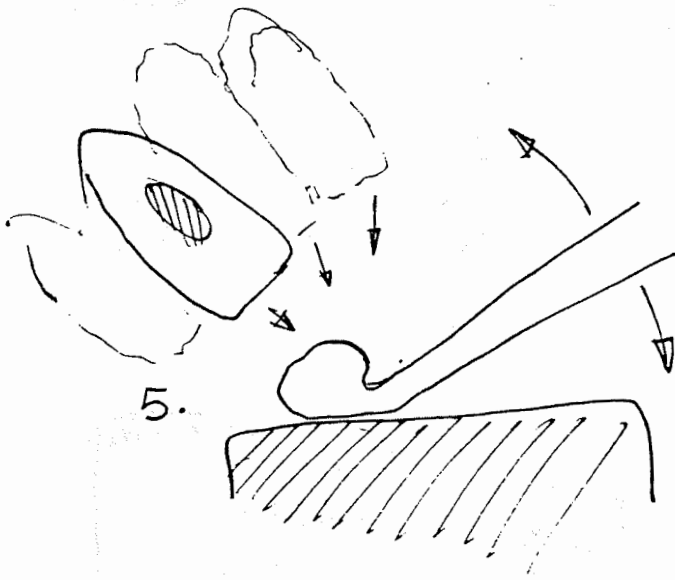


Half-Penny Scroll



KAC MARTINEZ

TOOLEY, 12 April
1987.



7. REFINE SHAPES

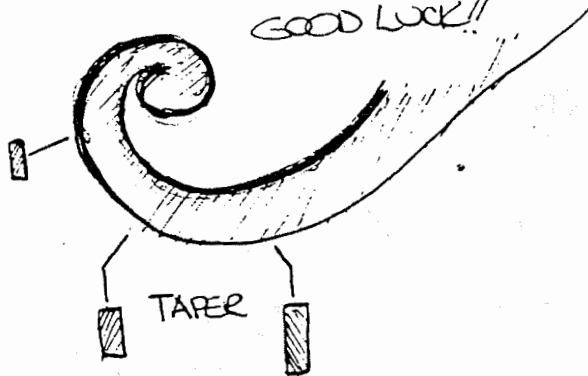
(FUN DIDDLE WITH IT.)

★ RECOMMENDED READING

REF: "DIXIE GUN WORKS CATALOG"
WINN CITY, TN.

TRANSLATIONS FROM OLD TERMS IN METALWORKING.

8. ROLL IT UP
GOOD LUCK!!



WAX MARTINEZ

More of Bill's notes will be published in
future issues - Rose Leaf - French Tongs -
Bevel Scroll

Knife Makers Corner

Dear NWBA Members,

During the past several years Wayne Goddard and I have talked about starting a bladesmith organization in the Pacific Northwest. This idea was presented to the NWBA board members at the last meeting, and met with approval. Thus the "Northwest Bladesmiths" are an official group affiliated with the NWBA. The only membership qualification is membership in the NWBA. The bladesmith purpose is to provide an organization that will be a gathering place for bladesmiths to exchange information, share skills and ideas, and to train others in the art of bladesmithing.

There were five NWBA members attending the Oregon Knife Collectors Association show, April 10, 11, 12 in Eugene Oregon, with trade tables. The O.K.C.A. gave the NWBA a free display table. Which was set up next to my table. I answered as many questions as possible and passed out NWBA application forms. Thanks NWBA members for the display of forged work.

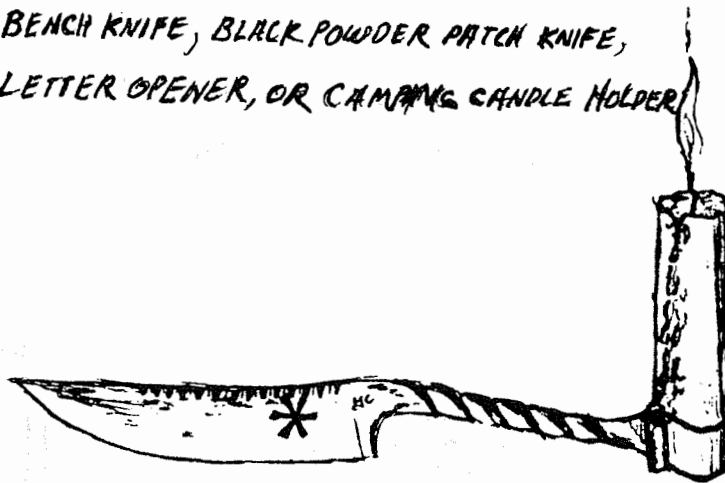
The May 16 & 17 bladesmithing workshop is filling fast. Call me if interested. (Gene Chapman 206-297-2495 after 5 pm)

For those of you attending the Spring Gathering at Ike Bays I intend to demonstrate high nickel alloy forge welding (wire & bar), Damascus Applique welding and a one hour forged pocket knife, potato tempered.

See you at Ikes
Gene Chapman

BLADESMITHING IDEAS

THE MINERS LAMP KNIFE MAKES A HANDY
BENCH KNIFE, BLACK POWDER PATCH KNIFE,
LETTER OPENER, OR CAMPING CANDLE HOLDER



MINERS LAMP KNIFE

MATERIAL - $\frac{5}{16}$ " GARAGE DOOR SPRING

Gene Chapman 4/14/87

CASTING WORKSHOP

Friday, June 19, 1987

- 9:00 a.m. Construct wax model of belt buckle
- 11:00 a.m. Casting lecture - overview - lost wax (cire perdue), sand casting, pressure, vacuum, centrifugal
- 12:00 noon Lunch
- 12:30 p.m. Casting lecture - investments/mold-making
- 2:30 p.m. Finish belt buckle model
Sprueing lecture
- 3:30 p.m. Sand casting demo, aluminum
- 5:00 p.m. Dinner
- Evening Investing wax models in flasks

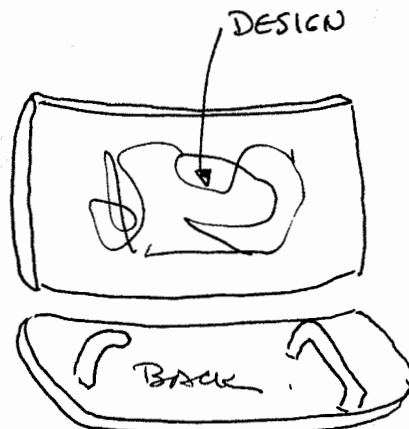
Saturday, June 20, 1987

- 9:00 a.m. Burn-out of flasks
- 11:00 a.m. (approx.) Casting belt buckles
- 12:00 noon Lunch
- 12:30 p.m. Finish casting buckles as needed
- 2:00 p.m. Desprueing, chasing, finish, patina
- 5:00 p.m. Dinner
- Evening Open foundry, as desired

Sunday, June 21, 1987

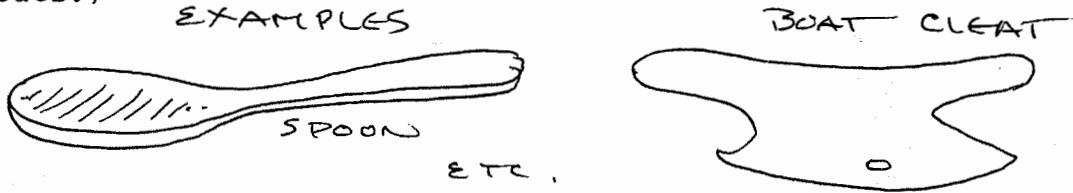
- 9:00 a.m. until noon Hands-on casting
- 12:00 noon Lunch
- 12:30 p.m. Clean-up, departure

Note: Prior to workshop, design belt buckle.
Approx. 2½ - 3 inches long
Approx. 2 - 2½ inches wide
Up to ¼ inch thick



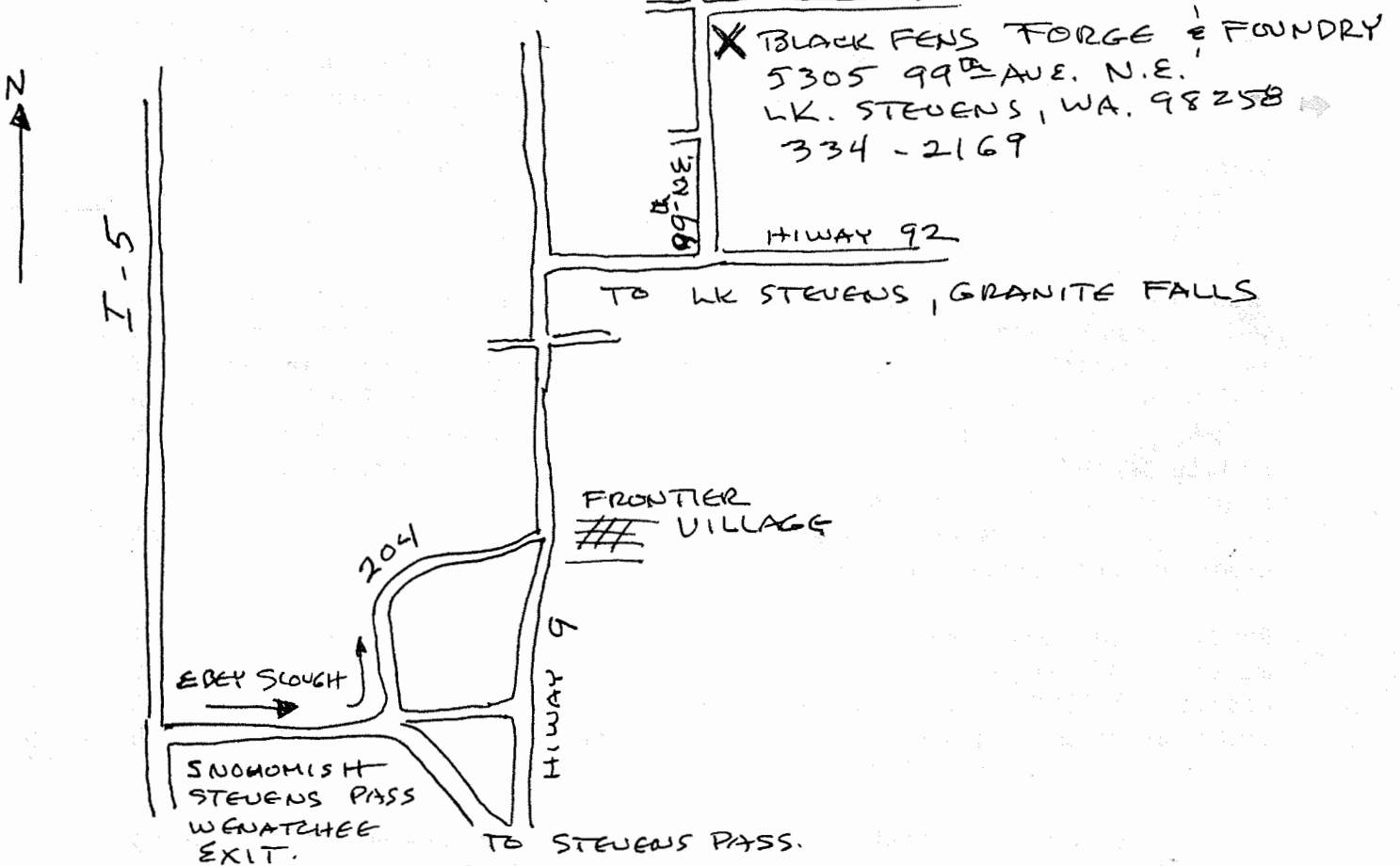
For sand casting: Any small object, decorative or functional, up to 6 inches long, 1/2 to 1 inch wide, at least 1/4 inch thick.

Cannot have undercuts. (Make a fist, look at it. All the little hollows are undercuts.)



Bring notebook. There will be some interesting photo shots.

Must have gloves, safety glasses, leather boots or high top shoes (preferably non-laced), and hat.



Wilder Folk

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

*School of Public Health and Community Medicine
Department of Environmental Health, SC-34*

March 10, 1987

Darryl Nelson, Terry Carson
Fire Mountain Forge
Eatonville, WA 98328

Our File: 87-015

Dear Mr. Nelson and Mr. Carson,

On Friday February 27, at your request, the University of Washington Department of Environmental Health visited your forge to measure noise.

Instantaneous measurements were taken of the tumbler, the air hammer, and during riveting, which involved hammering metal on a metal table, using a Type 2 sound level meter not equipped with impulse measurement capability. The impulse noises shown in the table are, therefore, probably underestimates of the true exposures. The relative contribution of impulse noise to hearing loss is compared with continuous noise is not fully understood. These results are shown in the attached table.

Also measured was personnel exposure to noise with a Metrosonics dosimeter which measures and averages noise exposure over a longer period of time. In terms of health effects, it is believed that average exposures in excess of 90 dBA over a many year period can increase risk for hearing loss. Noise dosimeters were placed on Darryl Nelson and Terry Carson for a 1 hour and 36 minute period. Due to equipment malfunction, only the results from the dosimeter worn by Darryl Nelson were available. Because of the similarity of the work and the small size of the shop, it is reasonable to assume that exposures were similar for both persons.

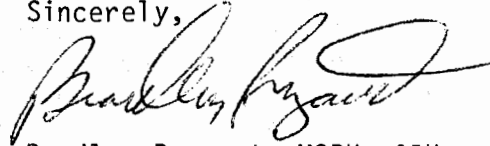
Results indicated average exposures of 91.8 dBA for the period of measurement. Projecting this 1 1/2 hour dose to an eight hour period this results in 128% of the allowable dose for a working day. The greatest contribution to this high dose was from the operation of the tumbler, which operated for close to half the period of measurement.

In order to reduce the risk of hearing loss, it is recommended that hearing protection be worn at all times when operating the tumbler, and that both earplugs and earmuffs be worn when riveting. Exposures during setup and other periods was 70-80 dBA, so that it is likely that average exposures

over the course of the day would be below 85 dBA if hearing protection were worn during the noisy periods.

Please do not hesitate to call if I can be of further assistance.

Sincerely,



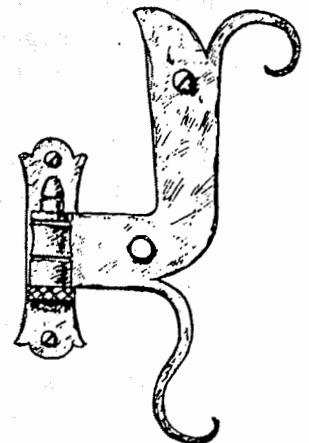
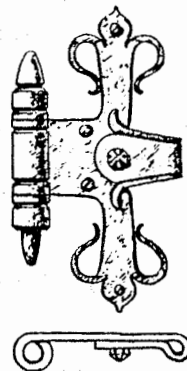
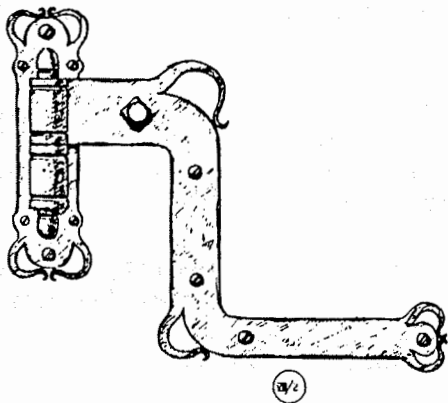
Bradley Prezant, MSPH, CIH
Industrial Hygienist

Table 1

Instantaneous Noise Measurements
Fire Mountain Forge

<u>Location</u>	<u>Measured dBA</u>
Tumbler, at tumbler	110
Tumbler, in shop	90
Riveting, at work table	125 ¹
Riveting, 15 ft from work table	115 ¹
Air hammer, at hammer	105 ¹

¹Impact noise



A book review by Mike Chisham, CBA

DESIGNS AND PRODUCTS OF THE FORGE

By C. Zimmer, 105 pgs., 94 illus., 8 1/2" x 11", \$10.95 plus \$1.35 postage.

A preview and then a review of the book itself. As one first picks up this book, it seems of normal size and of common, yet substantial thickness. After a long look at the title and details of the cover, the pages begin to fly by. Slowly at first as one tries to get a quick glance at everything on each page, yet remembering not to let the pages stop turning. Then, as pages turned into clumps of pages, came the thud of the back cover and the last page was finally scrutinized. Typical way to do a good book preview. The preview consisting of very little text and no photos. Look typical German. Lots of very good sketches, not the mechanical drawing type with lots of sizes and dimensions; but rather, good quality drawings done by a mechanical draftsman's pen. The quality and quantity of the drawings more than make up for the lack of photos. Too bad, though, for we all like to look at and study good photographs.

Digging into the contents themselves calls for a book review. The book is divided into ten groups. Contents seem to be mostly modern or contemporary designs and forgings. Very little traditional. Groups I-III ("Gates, Entrances, Railings & Stairs") have only O.K. drawings that leave a lot to the imagination because of the vagueness of the drawings themselves, but the detail of the elements is incredibly clear and easy to understand.

The next two groups ("Window Grills and Screens") show a lot of three-dimensional modern forgings. The detail of the elements, as previously mentioned, is excellent.

One could easily miss the group titled "Fireplace Tools & Grates." But then if one had, I don't think that one missed anything.

But to lighten things up a little, came the section on "Lamps & Candlesticks." I found no sketches on candleabras, though, but what I did see was very good. A lot of details, cross-sections, good ideas and a section that should have been longer with more sketches. For this is one that is worth looking at again.

When I looked for the group set aside for Hinges, well, I think I could find more hinges on an average door than I found hinges in this book. Remember, though, that the fate of this book does not hinge on this section.

Group IX had a very complete array of sign hardware from simple to complex, modern to traditional, and is well worth reading, if there was any text. But then again, this book doesn't have much text anyway. At the end of section IX was a couple of pages on how to forge the alphabet. I guess that this is why Group IX was titled "Sign Brackets & Miscellaneous."

Everything has to have a proper ending and what a better place to put "Grave Crosses." I guess this section is like a hobo's funeral. Short, small and to the point. The drawings are small, the section is short, and how much detail can one put in a simple cross. But the ones portrayed here are nice ones.

sd

For the price, the quantity of good detailed sketches and the quality of the drawings, I think that this book is a must for any ironworker's personal library.

Available from Norman A. Larson, 5426 HWY 246, Lompoc, CA 93436

SELL - BUY - SWAP

Norm Larson is collecting material for a booklet on Blacksmithing Puzzles contributors will be given credit and receive a free copy of the booklet

send to
Norm Larson
5426 HWY 246
Lompoc, Ca. 93436

S-2 Chisel Blanks - 3/4" octagon by
8" long - \$ 2.00 each.
Contact Fire Mtn. Forge
1-206-832-6280

Wanted to trade:
120 lb. Peter Wright anvil
for swedge block
Joe Billman
I.S.U. box 8060-340 N. Lincoln
Pocatello, Idaho
83209-83204
208-236-2902

A book review by Toby Hickman, CBA

MODERN DECORATIVE WROUGHT IRON WORK

Schmiedearbeiten von heute, German title, English text
by Hoffman & Maurach, 159 pgs., 343 photos, 8 7/8" x 11 5/8"
\$34.95 plus \$1.35 postage.

There is a new picture book this side of the Atlantic, Schmiedearbeiten von heute, literally Smith Work Today. As I cruised the book vendors at the last two conferences I've attended, I found I had previously bought all the picture books they were offering. I had to walk away with nothing new to look at that winter. This is no longer the case.

This hardbound, glossy-paper book features the recent work of sixty-six smiths. The work is modern both in design and execution. Among the techniques shown: Hammer textures and heavy spreading with bar bar stock and plate, plate is also cut into shapes that are edge upset for drama and definition, exciting joinery using rivets, wrapping, slitting, and electric welding. There are gates and grills made of riveted elements which are then rigid enough to work without a frame. The items shown run the gamut--gates and grills, doors and hardware, sign brackets, and forged letters, usually several of each in widely different styles.

There is an introduction in German and English which is a short essay on modern iron work and creativity. In the back of the book are forging temperatures of various materials, and many other useful items. Each picture is captioned in both languages giving overall size and stock dimensions, where the work is located, who designed it, and who made it. The dimensions, though, are all metric.

All in all this book has most everything I like in a wrought iron picture book--good pictures of exciting work and enough information to put the work in perspective. I recommend it to you.

Available from Norman A. Larson, 5426 HWY 246, Lompoc, CA 93436

NORTHWEST BLACKSMITHS ASSOCIATION
PO BOX 81041 SEATTLE WA 98109

MEMBERSHIP APPLICATION: New | Renewal | Correction |

Name _____ Date _____

Address _____

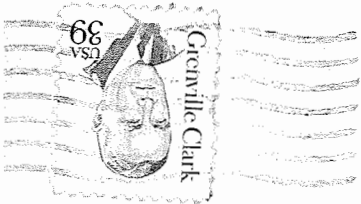
City _____ State _____ Zip _____

Phone (____) _____ - _____ Firm(optional) _____

Please enclose your remittance for \$12.00, payable to: NWBA

Jerry Callahan
Old Cedar Forge
East 290 Greenwood
Allyn, WA 98524

Northwest Blacksmith's Association
P.O. Box 81041
Seattle, WA 98108



CALENDAR OF EVENTS

SPRING GATHERING - May 9-10
Ike Bays - Hillsboro, Oregon

How to get there: Bay View Farm is 16 miles west of Portland. Go out Sunset Highway (#26-West) to Helvetia Road. Travel north on Helvetia to Phillips Road. Turn west on Phillips and Bay View Farm is just past the intersection of Phillips and Valley Vista. Yellow anvil signs will clearly mark the way once you turn off the Sunset Highway (Hwy #26).

KNIFE WORKSHOP - May 16-17
Dave Thompsons - Eugene, Oregon

CASTING WORKSHOP - June 19-20-21
Black Fens Forge & Foundry - Lake Stevens, WA

FALL MEET - Oct. 18-19
Old Cedar Forge - Allyn, WA