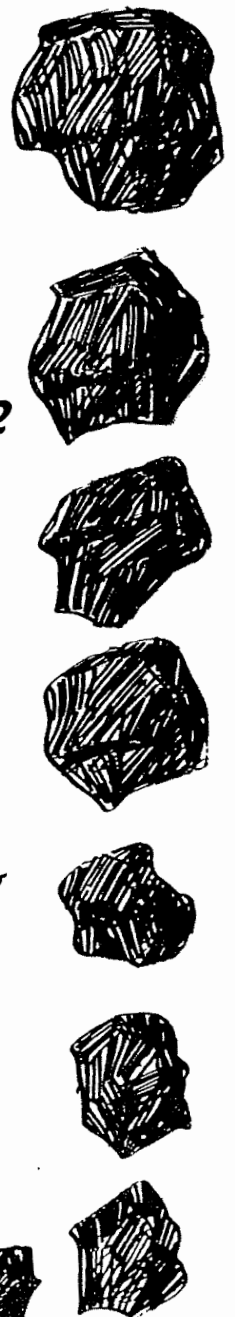
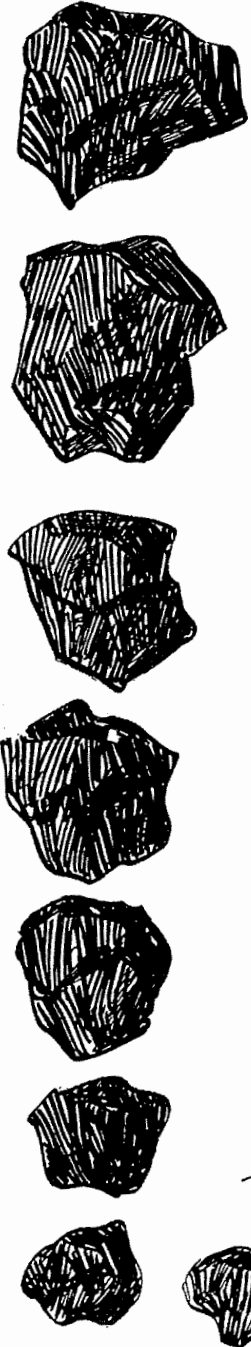
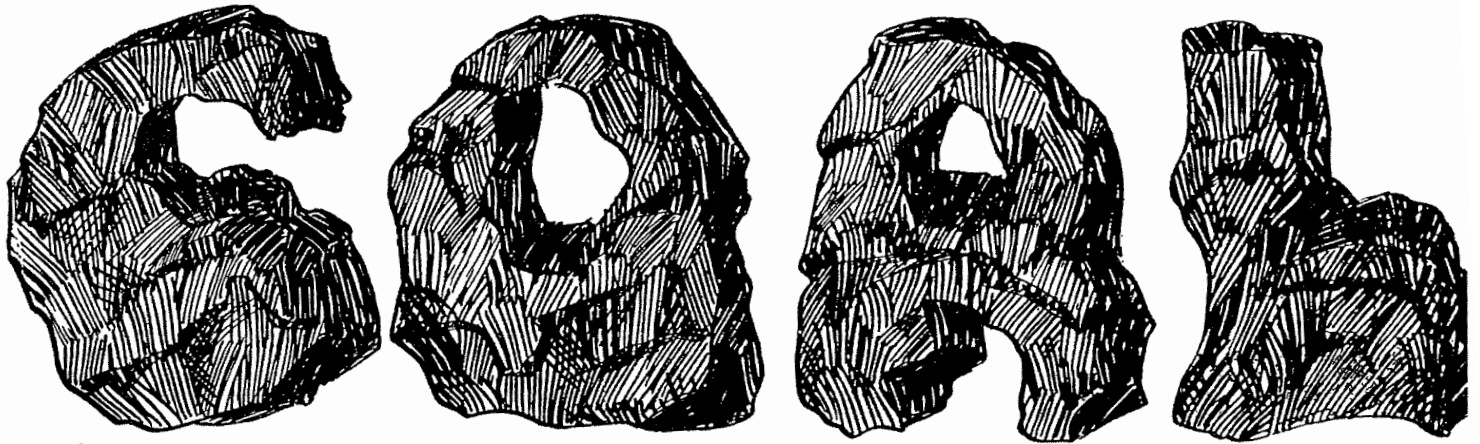


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HOT IRON NEWS





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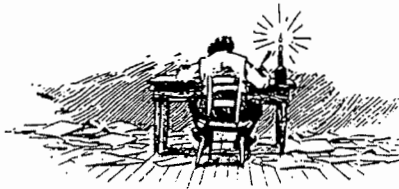
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Farmington, Georgia 30638
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Membership includes a subscription to the **Anvil's Ring** and **The Hammer's Blow** magazines. Regular membership is \$45, Senior (65+) \$40, Student \$35, Foreign \$65.

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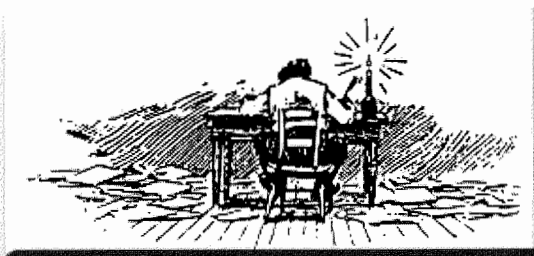


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Editor's Notes!

The NWBA Board passed a motion at the Spring Conference at St. Helens, Oregon, which might well turn out to be one of the most significant actions of the NWBA--to support an ABANA Conference in Seattle in 2006! The next ABANA Conference will be at Richmond, Kentucky on the campus of Eastern Kentucky University. The ABANA Board is hard at work on it's organization. Dave Koenig, board member from Houston is the Conference Chairman. Dave brings a career's worth of experience working with Exxon to the task. The local Kentucky chapter has only about 50 members so ABANA will definitely be the laboring oar. Contrast that to the resources available to the NWBA--almost 500 members strong. Of all the ABANA Affiliates, with the exception of California, the NWBA has the most resources. The organization has just about every occupation represented and a knowledge and talent base that is awesome (not counting certain more disturbed members who utilize their genius on designing motorized easy chairs!). Combined with ABANA's resources, which includes several containers full of forges and tools, a Seattle Conference should prove to be a most memorable event! The ABANA Board will meet at Memphis at the National Ornamental Metals Museum in November to decide the next location--and there are several contenders for the event! Affiliates recognize the tremendous advantages to their membership by having a world-class blacksmithing conference in their own backyard. The NWBA had a great combined conference with the Northern Rockies Blacksmith Association and the Kootenay group. There is no reason why such a combined effort couldn't occur with an ABANA Conference in Seattle. A conference needs about 800 attendees to be successful. That should be easy with a Seattle event. The California Blacksmith Association, as well as other Western groups will attend. As a destination point, Seattle would be an excellent family vacation destination. Now is the time for the membership to begin thinking of events and features that would distinguish a Seattle conference and make it truly memorable. I would be happy to be the clearinghouse for any and all ideas--and I know that (after seeing the Easy Chair Road Warrior) that there are going to be some good ones! Unleash your imaginations! We have three years to think about this. I have already received a couple of good suggestions that members have expressed. Many members belong to other organizations that have conventions and conferences. Take note of what you like about those conferences. The NWBA should organize a conference committee to liaison with ABANA and to help plan the event. This promises to be a fun and rewarding experience for all concerned. And, many hands make light work!

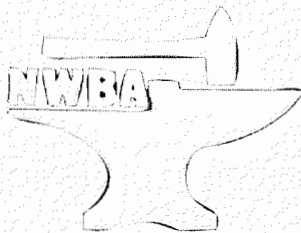


AND NOW . . .

A FEW WORDS FROM THE PRESIDENT!~



I have just returned from the Spring Conference in St. Helens, Oregon and would like to thank all of you who put forth your efforts to make it happen. The demonstrators (Richard Sheppard from West Virginia and Terry Carson from Eatonville, Washington) did a super job and their demos were well attended. The hands-on workshops were also well attended. Thanks to Dave Lisch, Scott Szloch, and Darryl Nelson. Setting up and running these hands-on workshops at the conferences is a lot of work, but I feel that it has proven to be a very worthwhile effort. David Tuthill's nail-tree project got off to a good start and had a lot of smiths making nails (some of which should be classed as spikes) until the wee



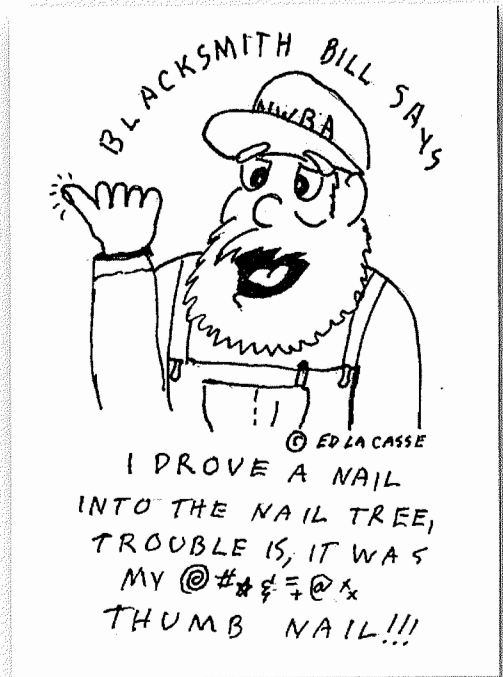
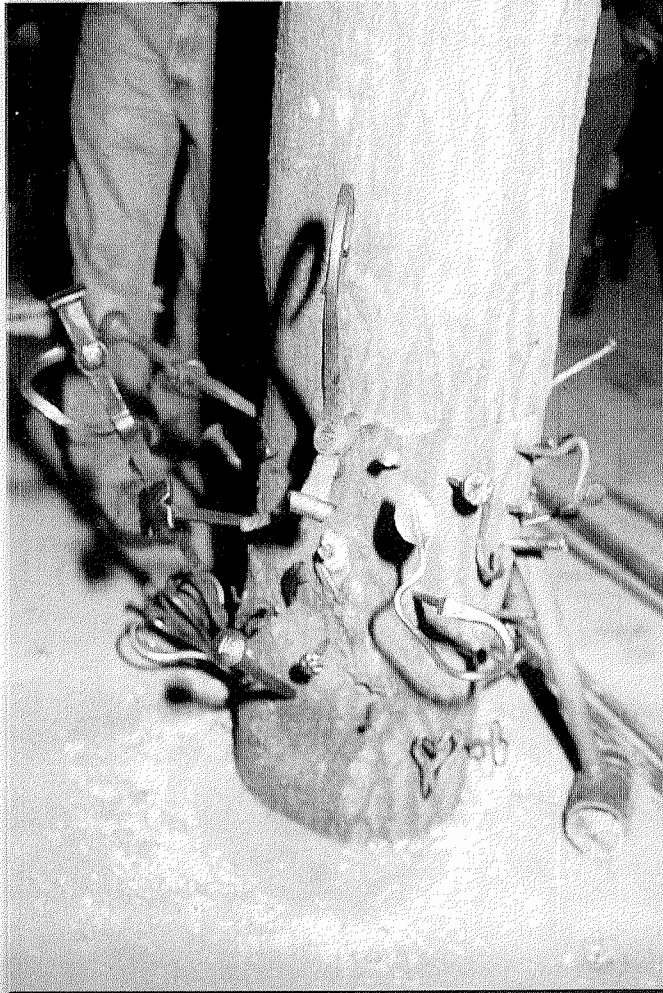
hours at midnight madness. The attendance at the Saturday night dinner and auction was around 280. A sizeable crowd for a rainy spring conference. Again, thanks to all of you that work before, during, and after each conference to make it all happen.

The board of directors, along with the *HOT IRON NEWS* editor Jerry Kagele, have agreed upon the development of a publications committee to ensure that the wishes of the membership will be reflected in the publication. The committee members are Al Karg, Don Kemper, and Jerry Kagele. Al Karg has decided that he would like to devote a lot of his attention to this new committee, and that in doing so would not be very effective as a board member. Al will continue to take care of the NWBA mailing list (no small job in itself) but has resigned from the board. Thank you Al for your continued commitment to the NWBA. As per the by-laws, the first alternate from the previous election will fill any open board position. Ken Williams from Sedro-Wooley Washington has agreed to fill the empty board position. Ken serves on several boards in his own community, and I feel that he is a very good addition to the Board.

Remember that we will be seeking nominations for board members at the fall conference in Mt. Vernon, WA Oct. 10th-12th. Also remember that the NWBA can use your help in all sorts of ways. If you would like to help with any NWBA business or project, just let a board member know and we will be happy to put

your services to work.
**WORK SAFE AND ENJOY
 YOURSELVES**
 Mark Manley

Mark Manley

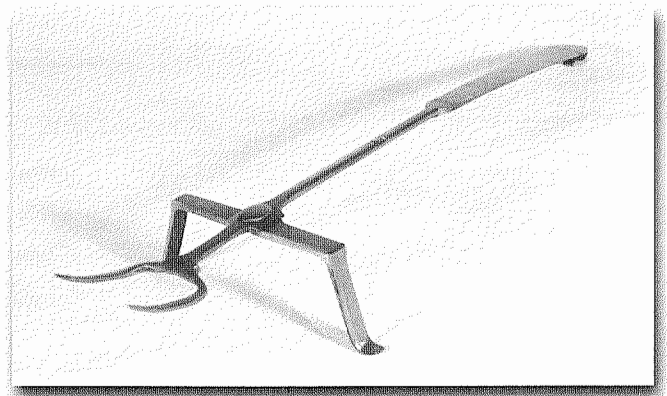


ST. HELENS SPRING CONFERENCE

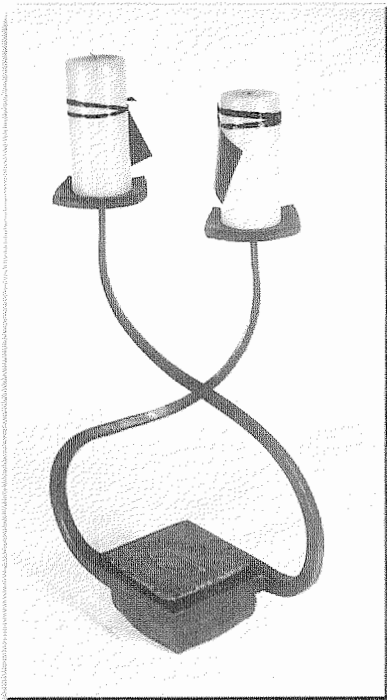
IN MEDIEVAL TIMES TRAVELING BLACKSMITHS POUNDED A NAIL WITH THEIR MARK INTO A TREE ON THE OUTSKIRTS OF A TOWN. DAVID TUTHILL RESURRECTED THE TRADITION AT ST. HELENS, OREGON.



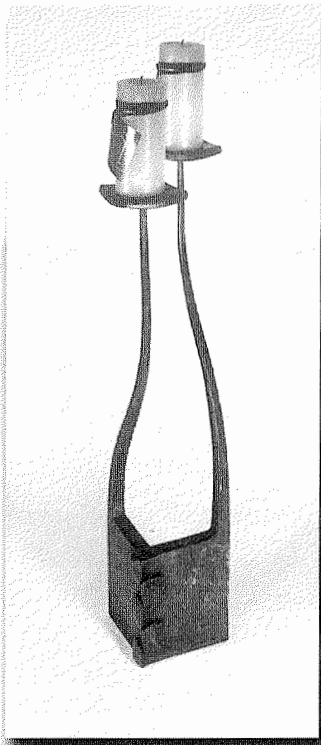
ONE ITINERANT BLACKSMITH TRAVELS IN STYLE



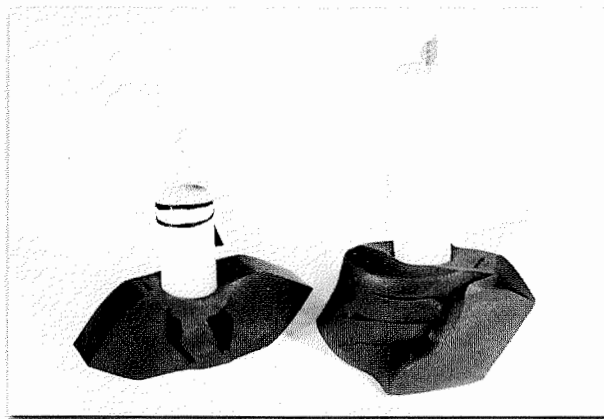
BOB RACE SINGLE FOOTED FORK



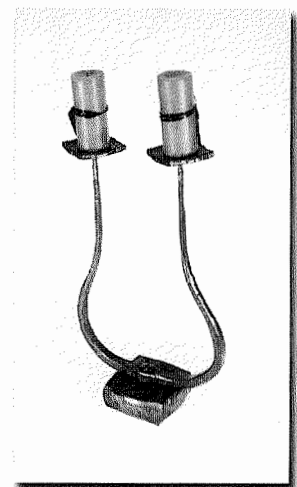
LEAF TILE



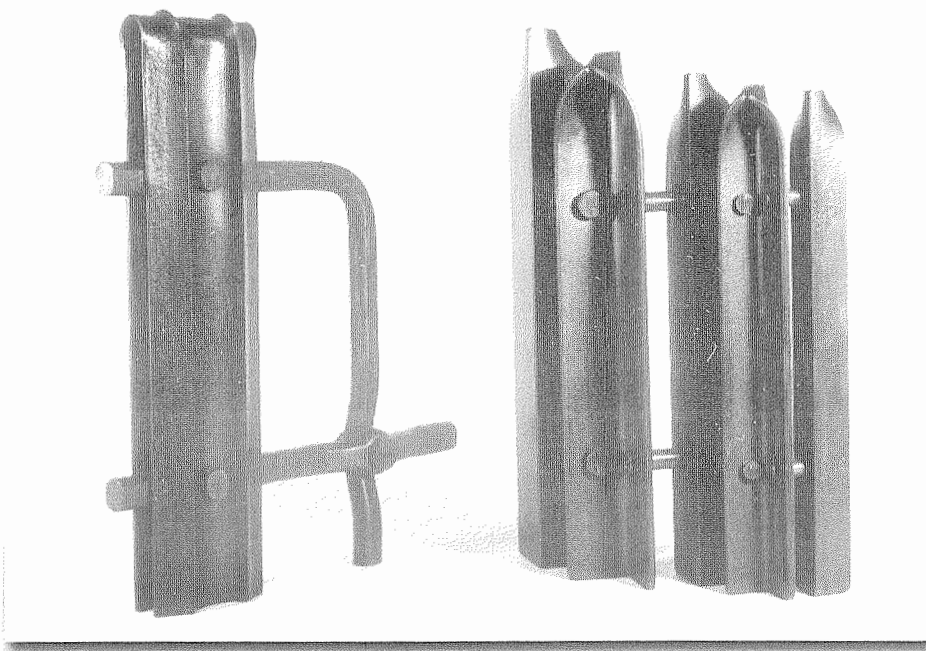
HARMONY



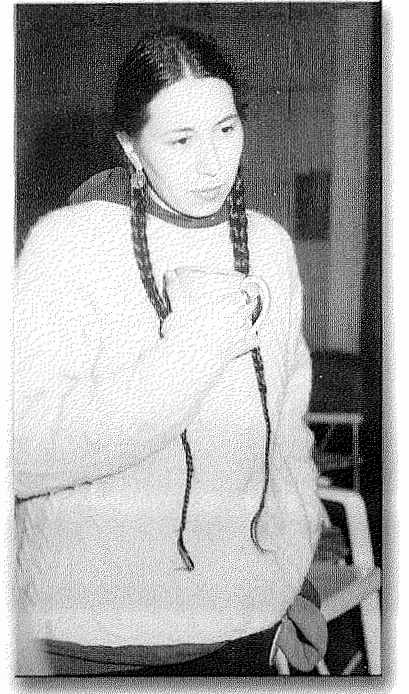
MY ROCK SPOT & THE SALMON CHRONICLES



JERRY CULBERSON



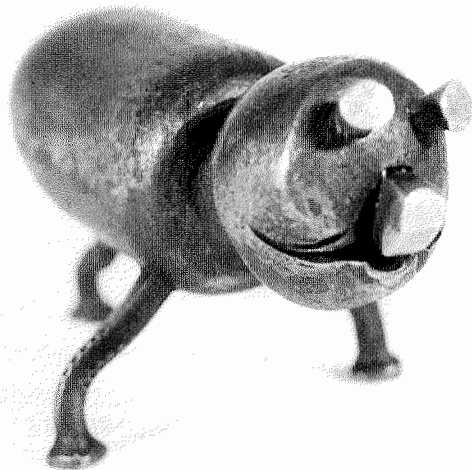
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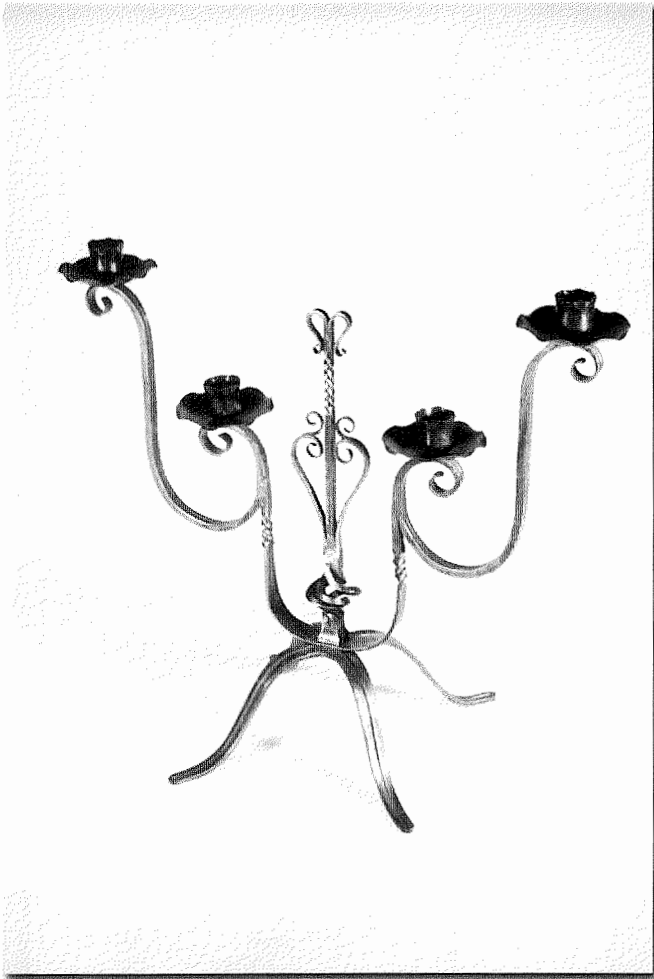


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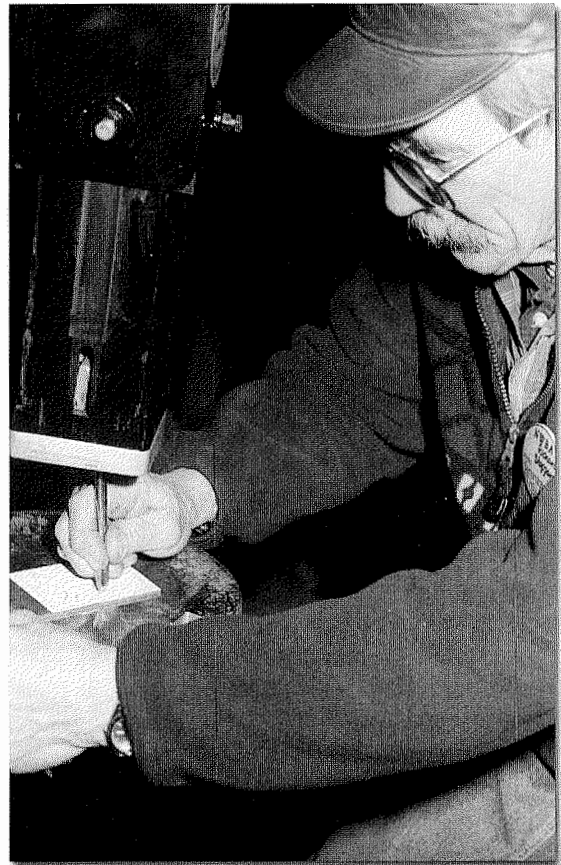


MOJAVE JOHN MOUSE

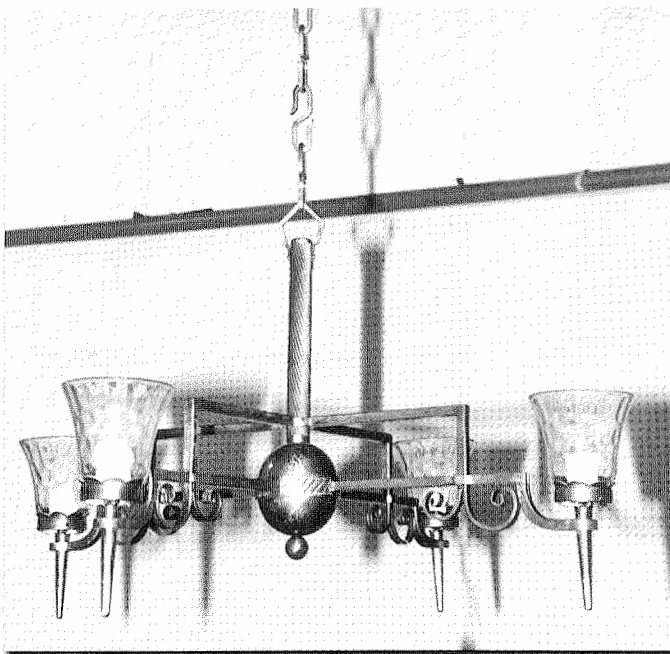




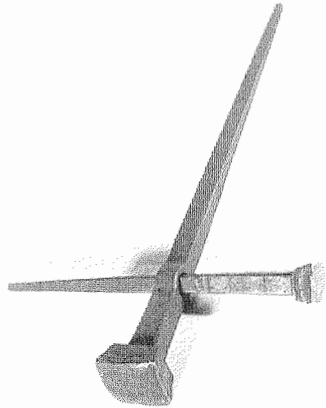
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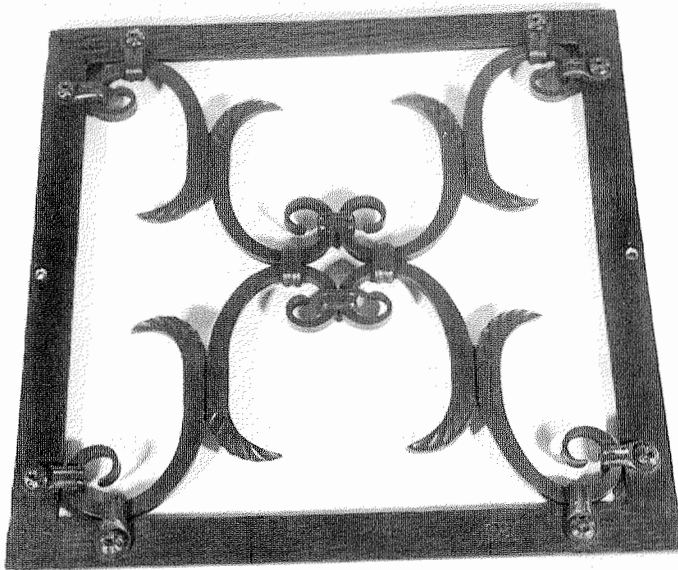
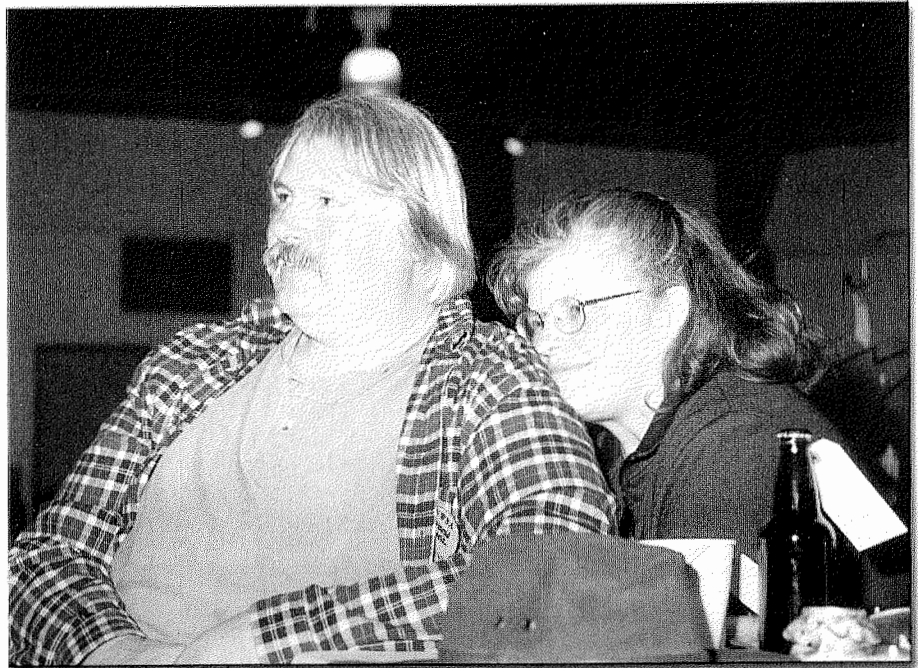
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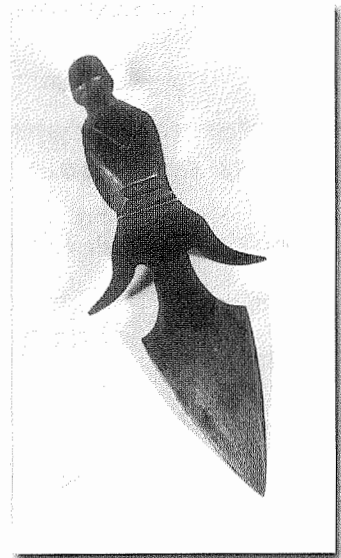
**RAIL TWIST BEAR DIRIWACHTER
SHASTA TOWLER**



STEVE HOWELL

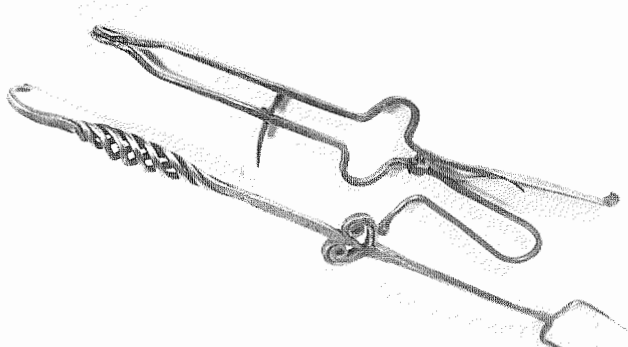


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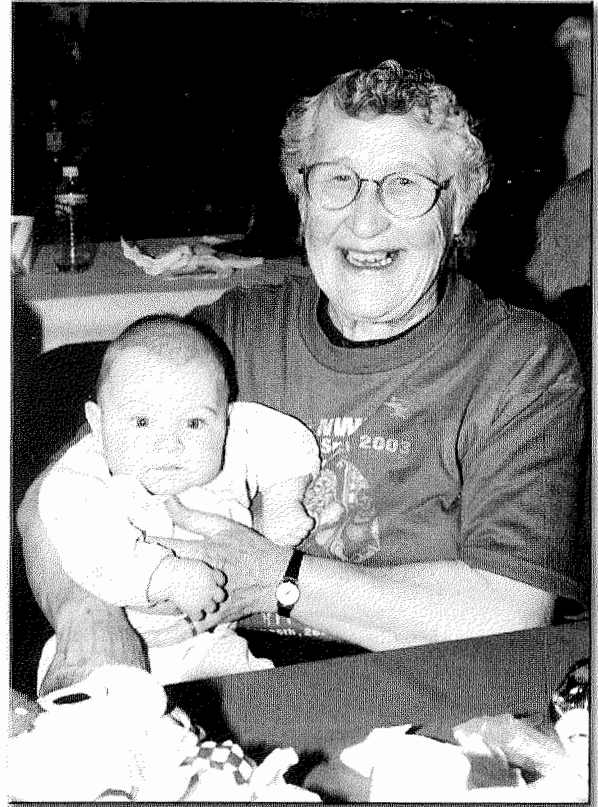
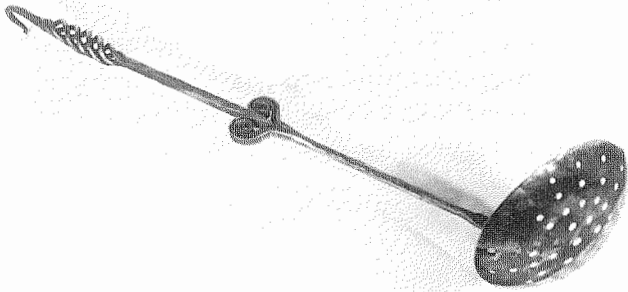


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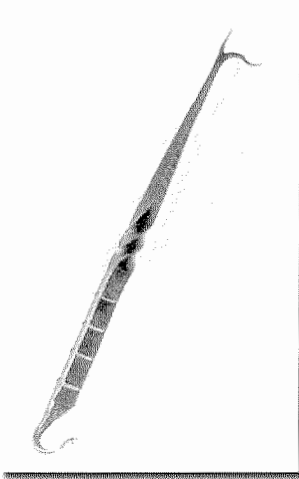




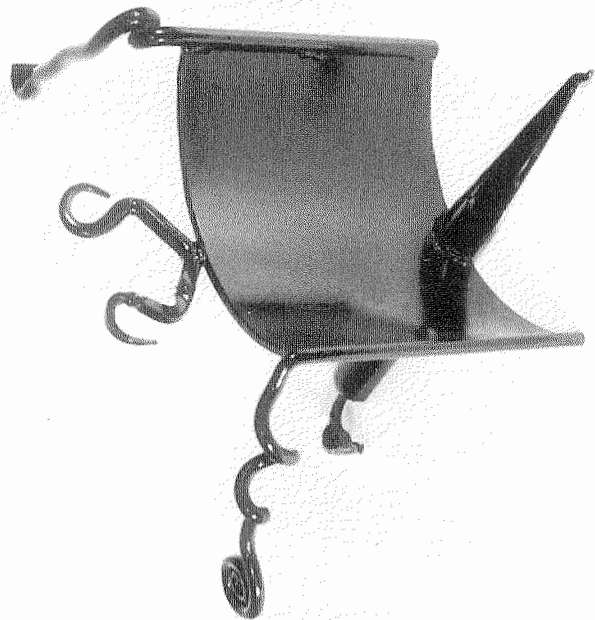
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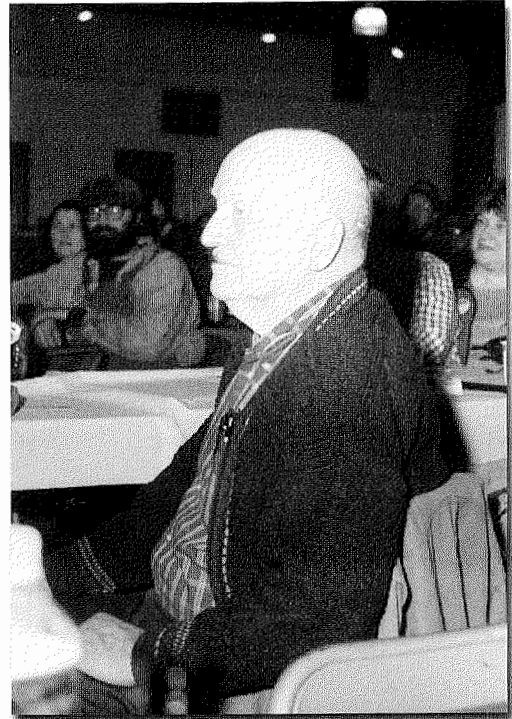
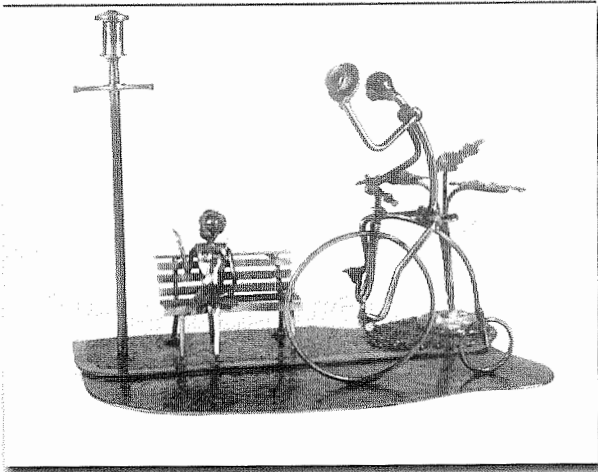


BABE AND NEW FRIEND SAWYER

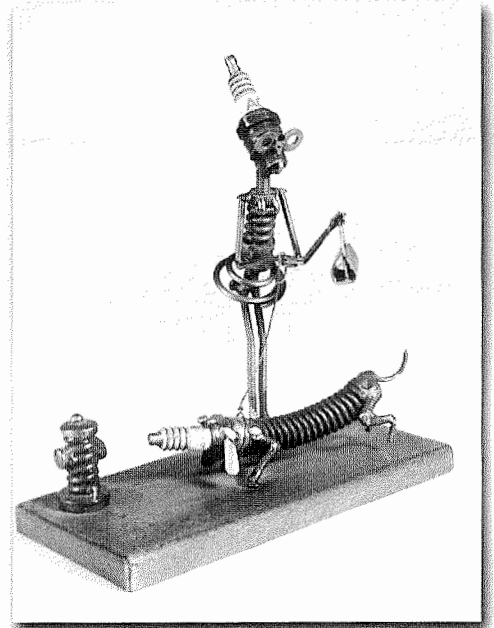
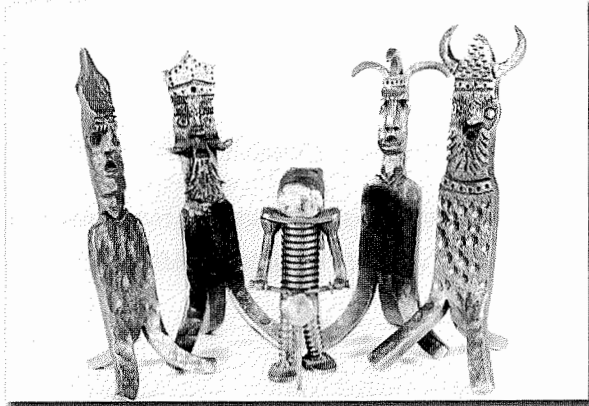


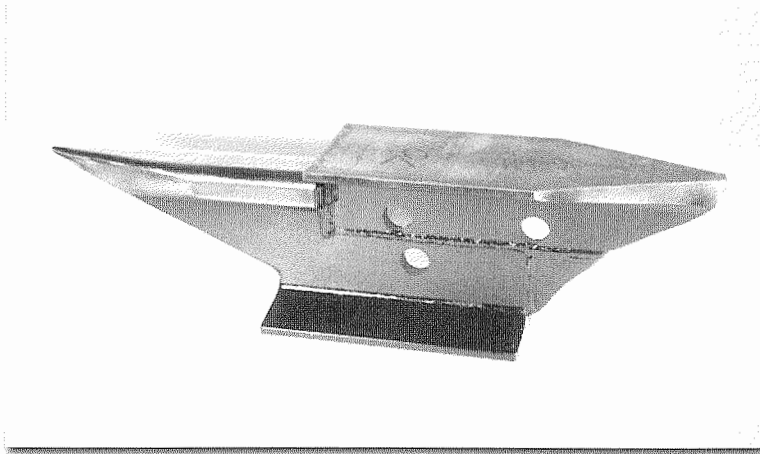
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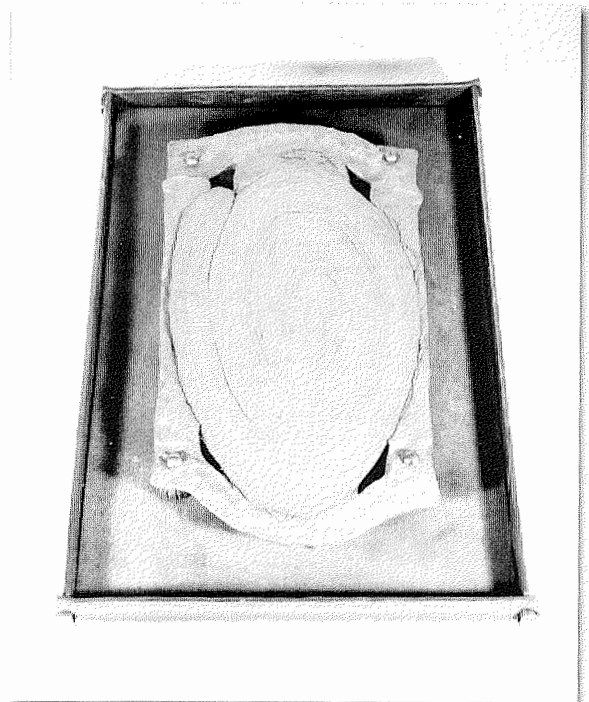
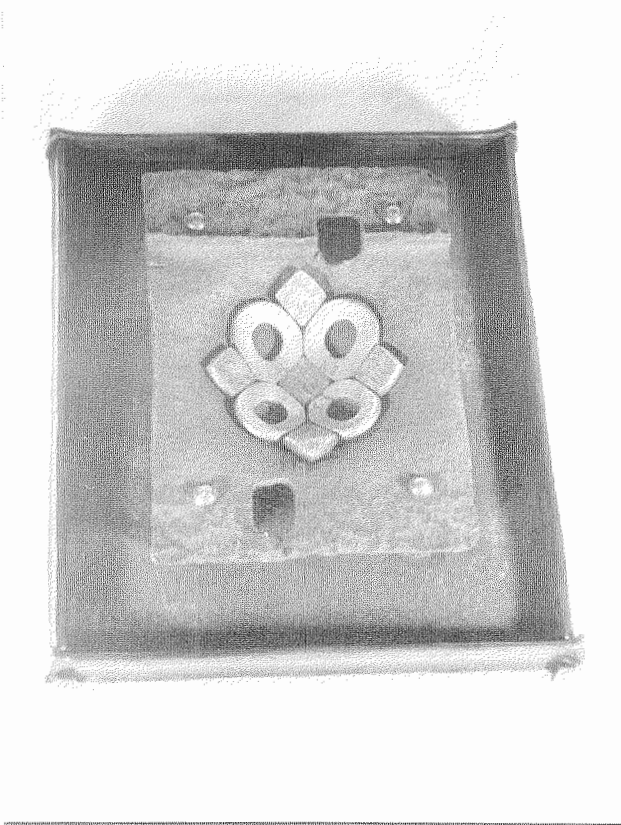
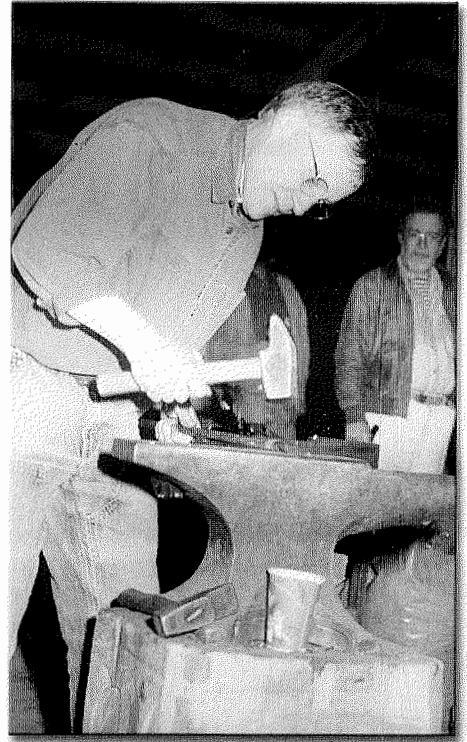


**RALPH HINDS AND HIS
FUNKY FORGING**

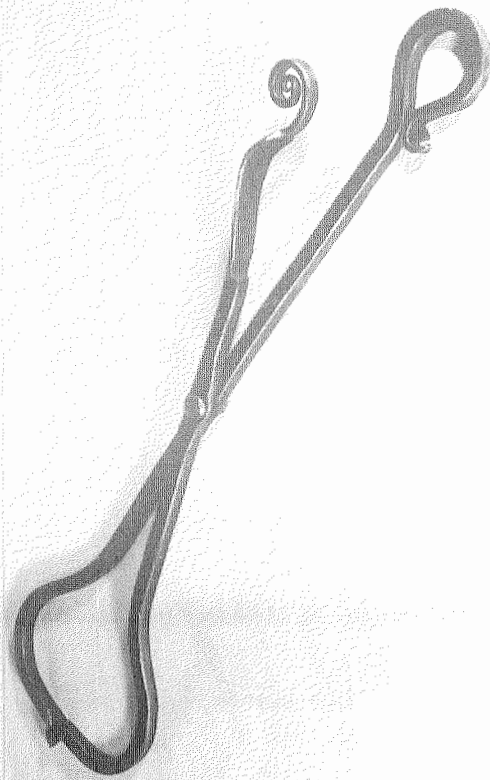




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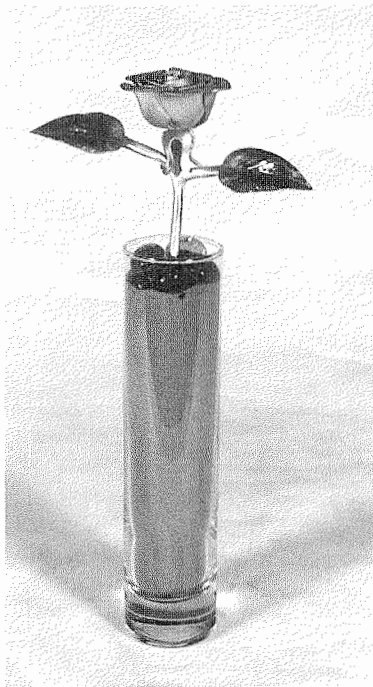
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TIM MIDDAUGH

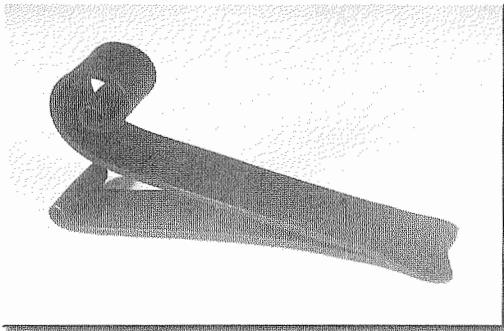


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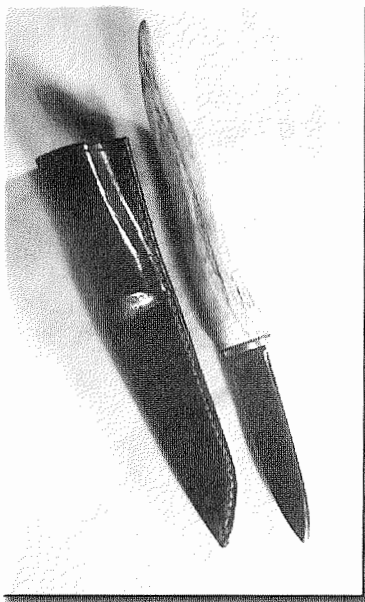
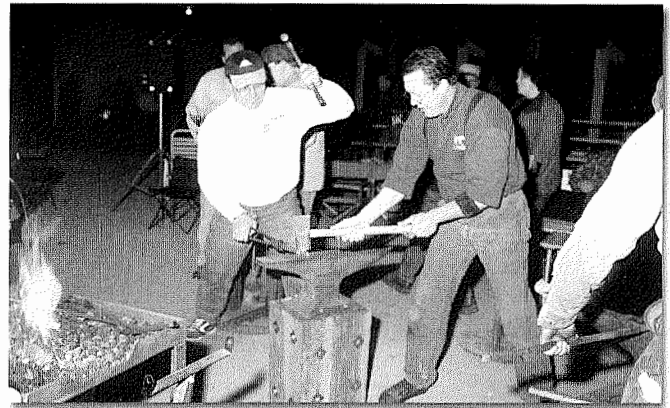


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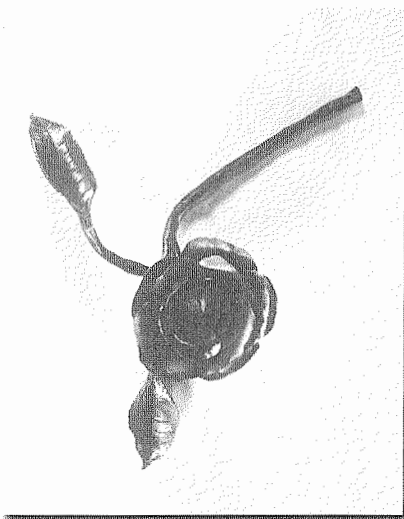




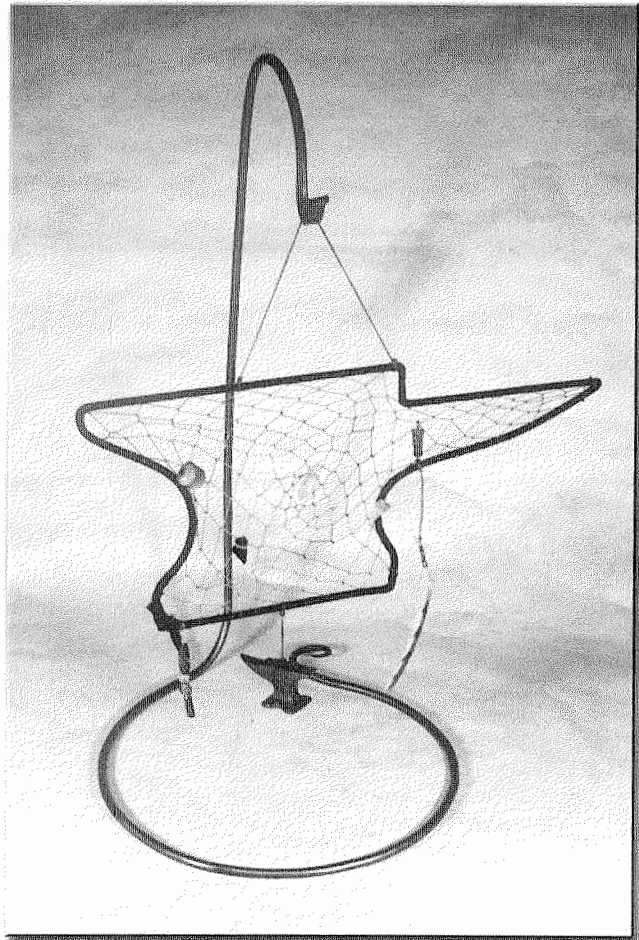
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NICK MARCELJA



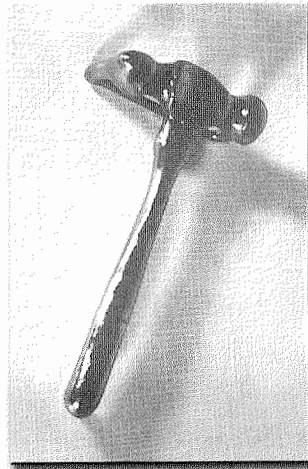
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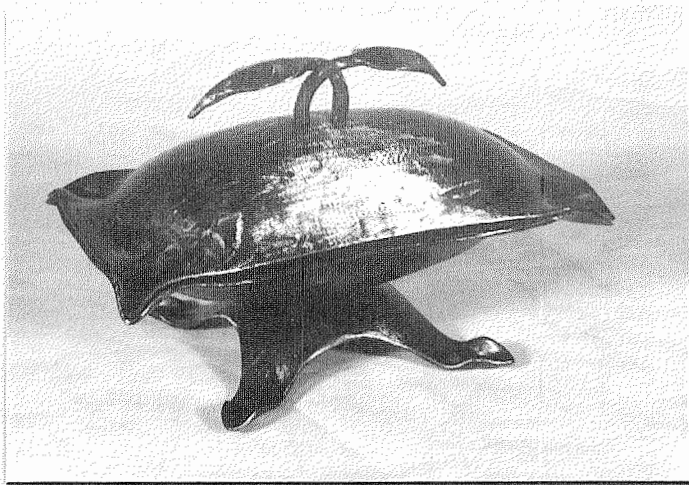
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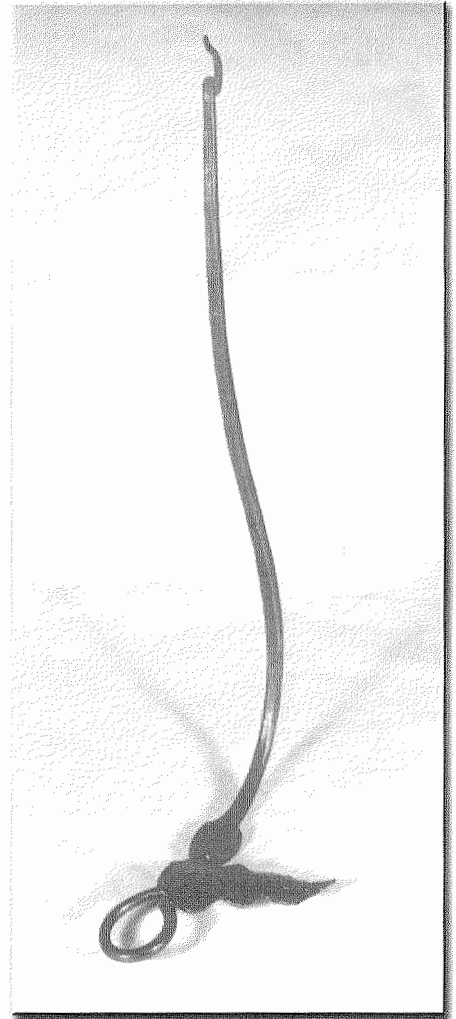
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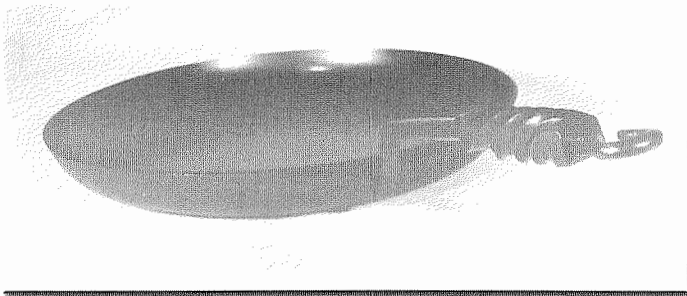
**GEORGE BLACKMANN
TITANIUM BELT BUCKLE**



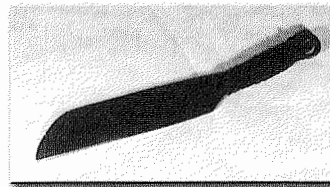
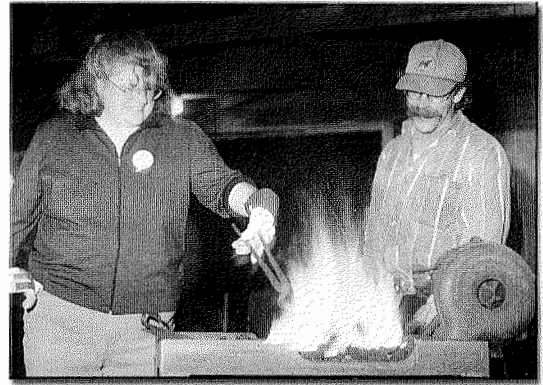
BOB WATTS



TERRY CARSON



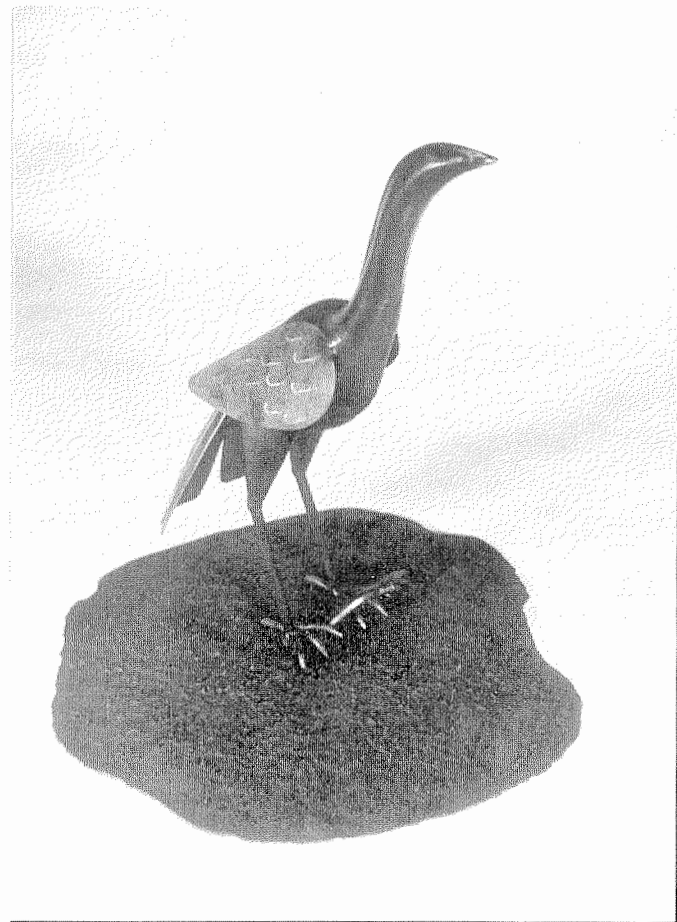
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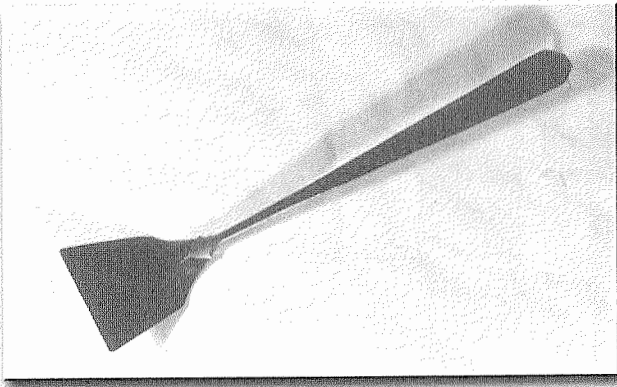


MOJAVE JOHN SPRING LAMB TAIL DOCKER



BERT ROMANS





BOB RACE

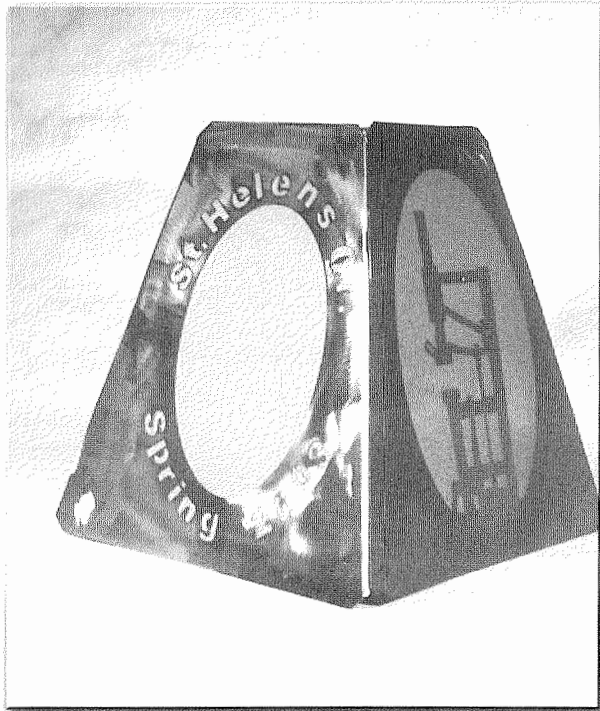


BETH HEIA HAND-BEADED COAL FORGE PURSE





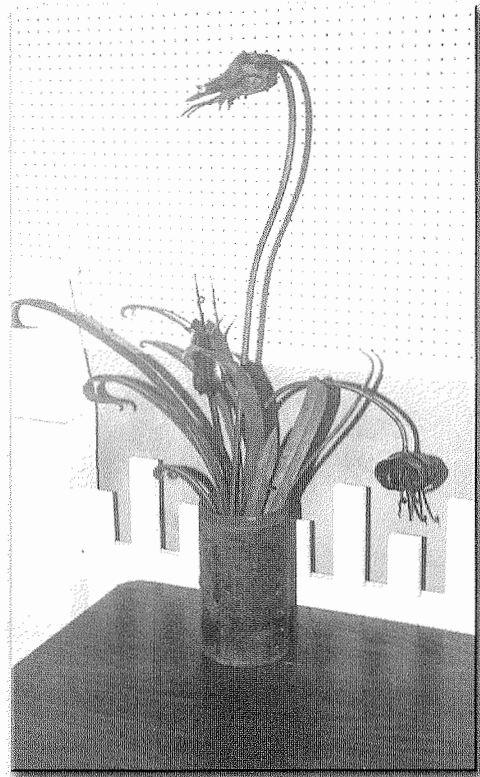
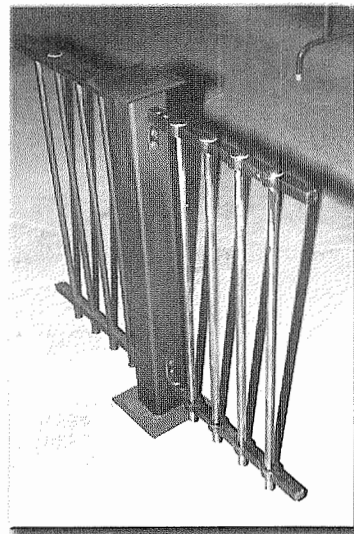
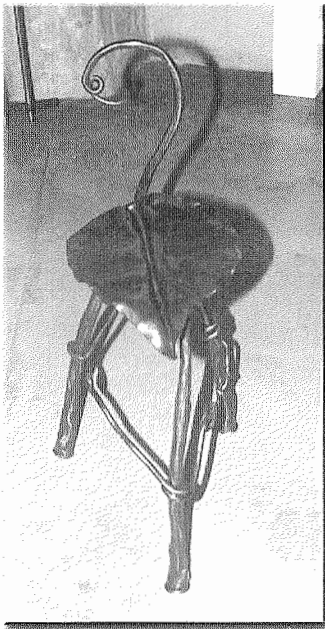
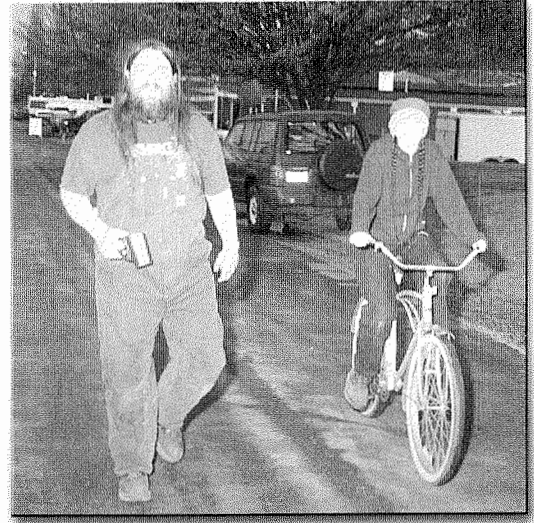
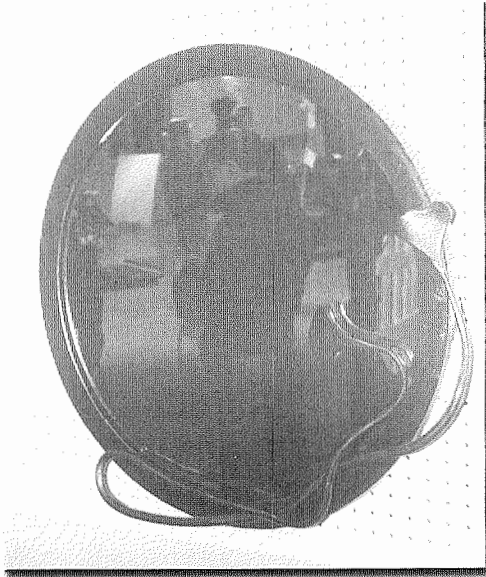
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JIM KINGSTON



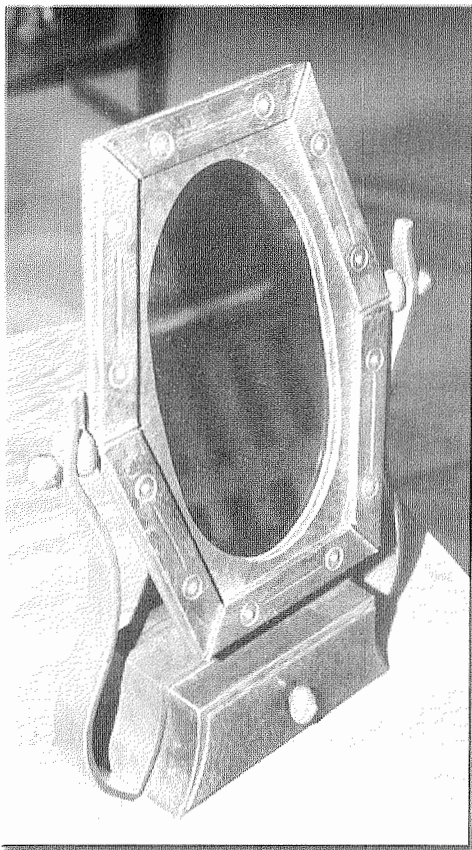
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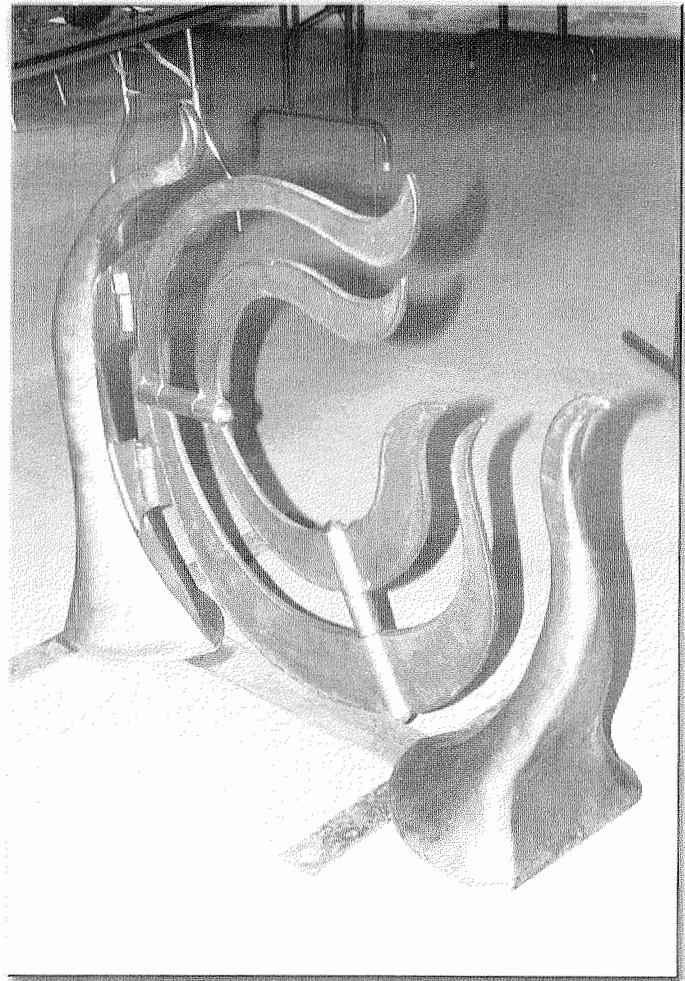
BEAR DIRIWACHTER AND SHASTA TOWLER



DAVE THOMPSON



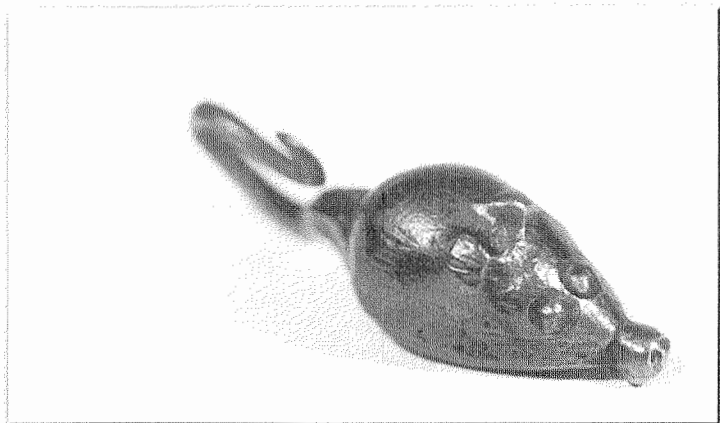
MATT TILTON



FLASHING FORGE



RAY CARPENTER





John Adolph

ANVIL RESURFACING



In selecting a welding rod to use in rebuilding an anvil, I attempt to match the chemical composition of the anvil surface. I use welding rod E11018-M which is 0.10% carbon, 1.30-1.80% manganese, 1.25-2.50% nickel, 0.40% chromium, 0.25-0.50% molybdenum, and 0.08% vanadium. This composition will give a much tougher weld deposit closer to the parent metal. Some blacksmiths also use E7018. However, this may not last as long with beginning blacksmiths.

The preheat is the most important factor and the stated minimum preheat does not mean that you cannot heat higher. A higher preheat is better. I have included the carbon equivalents and the minimum preheats. Post-heating is not required in the as-welded condition since the weld surface is tougher than the post-heat condition.

To find the carbon equivalent:

$$C.E. = \%C + \frac{\%Mn}{6} + \frac{\%Ni}{15} + \frac{\%Cr}{5} + \frac{\%Cu}{13} + \frac{\%Mo}{4}$$

<u>Equivalent Carbon Content</u>	<u>Suggested Minimum Preheat Temperature</u>
Up to 0.45%	100%
0.45 to 0.60%	200-400 degrees F.
above 0.60%	400-700 degrees F.

Preheating is of Utmost Importance! Preheat 200 degrees F. to 400% F. to prevent cracking in hardenable steels during welding. Hard zones may be formed even with preheating at 200-400 degrees F. but at the preheat temperature so little austenite changes to martensite that cracks do not form. The rate of cooling is also important. The cooling should be slow.

Hydrogen embrittlement promotes cracking. For example, a hydrogen content of 11 ml/100 g was calculated to develop a pressure of about 200,000 p.s.i. Electrodes of low hydrogen class must be taken from an oven at 250 degrees F. for welding (and the ice box old fridge with light bulb is not a rod oven but a sponge that will absorb moisture!). To rebake low hydrogen electrodes they must be heated for at least one hour between 700 degrees F. and 800 degrees F. then stored at 250 degrees F. before using.

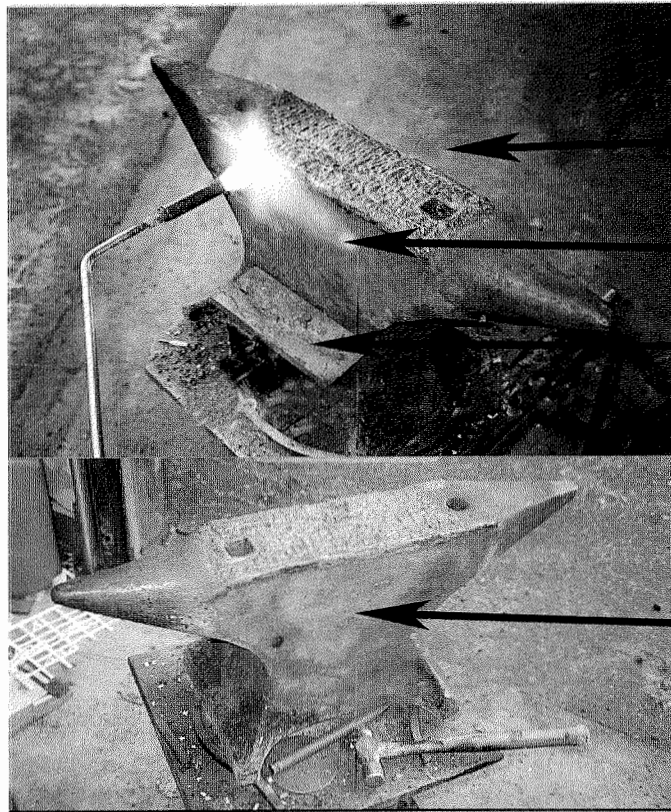
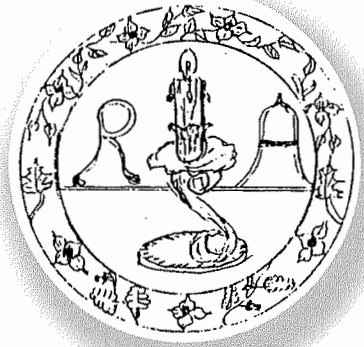
Carbon Equivalent Calculation: (using SAE 4140 as an example)

SAE 4140 C = 0.43% Mn = 1.00% Cr = 1.10% Mo = 0.25%

$$\begin{aligned}
 &C \quad 0.43\% \\
 &Mn \quad \frac{1.00}{15} = 0.066\% \\
 &Cr \quad \frac{1.10}{5} = 0.22\% \\
 &Mo \quad \frac{0.25}{4} = 0.0625\% \\
 &0.7785\% \text{ Carbon Equivalent--preheat minimum of 700\% before tacking or welding}
 \end{aligned}$$

John Adolph

ANVIL RESURFACING



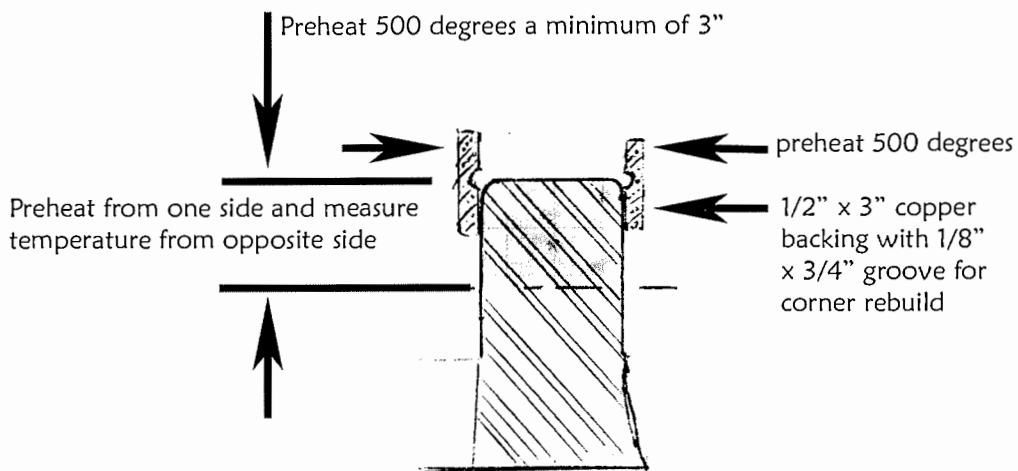
check and take temperature from this side

soak and preheat

copper backing 1/2" x 3"

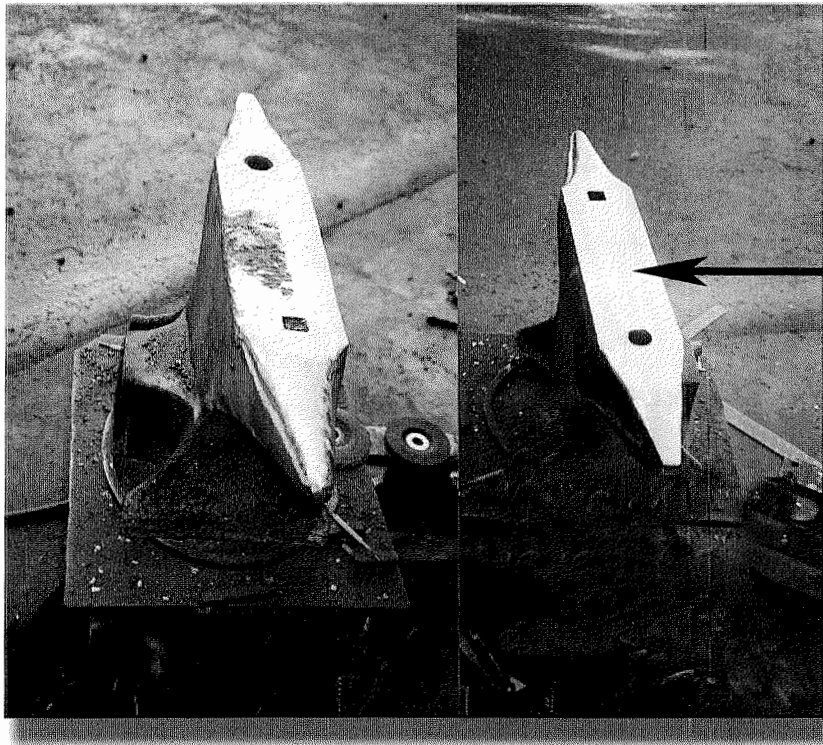
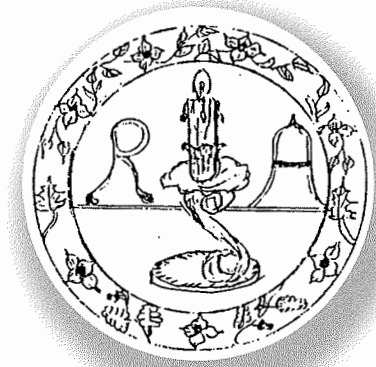
maintain preheat during welding

Anvil Rebuilding: Soak and preheat to 500 degrees. Build up with E11018-M Electrode. Cool down and surface grind.



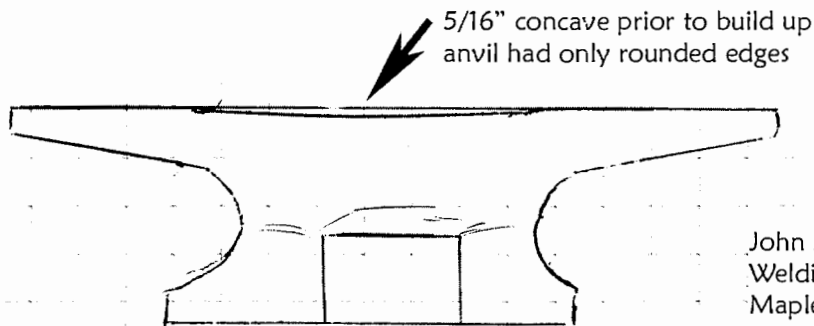
John Adolph

WELD RESURFACING



Complete!

Surface grind the built-up anvil surface.

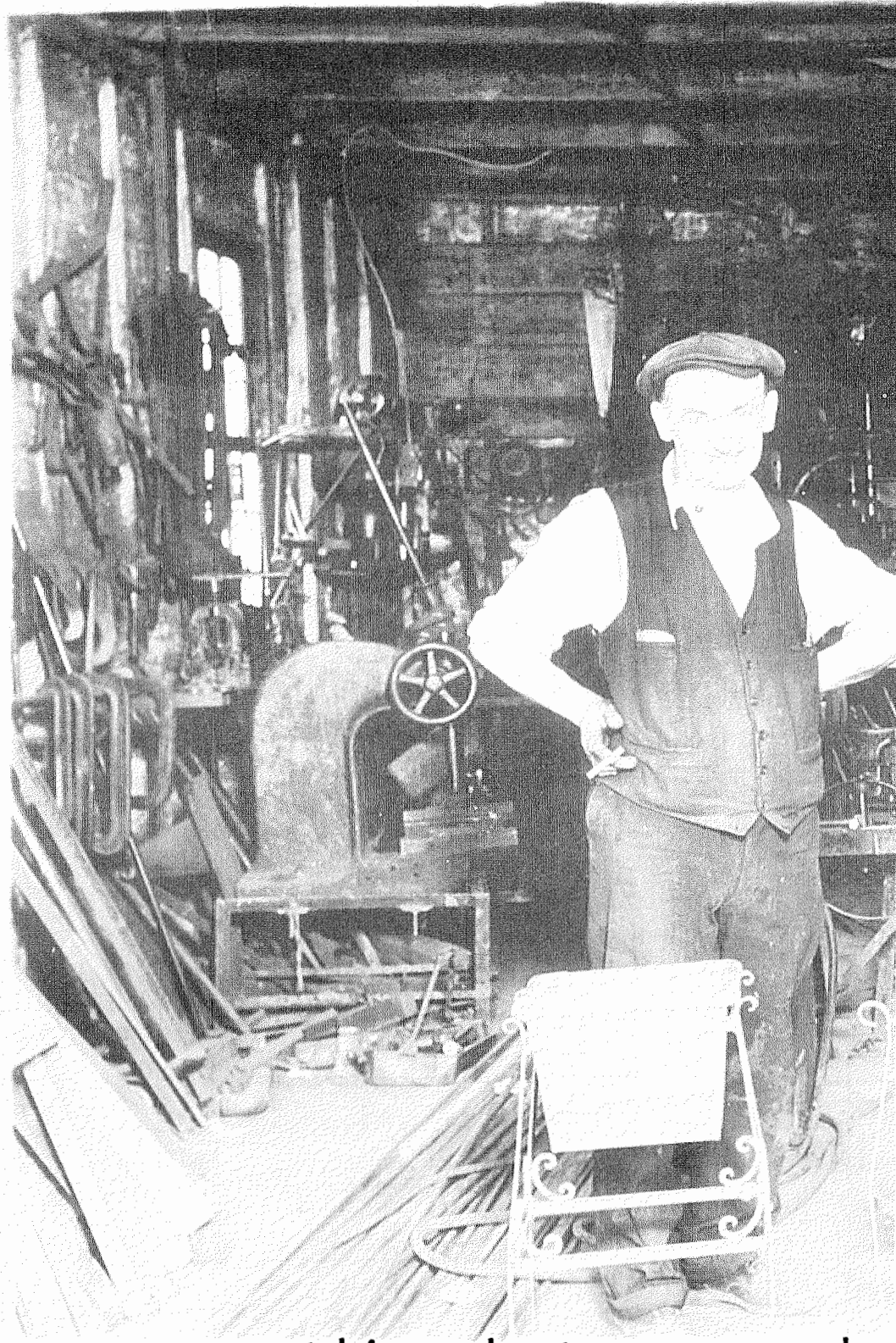


John Adolph
 Welding Consulting Services
 Maple Ridge, British Columbia
 V2W 1N5
 604 462-9199

a blacksmith discover

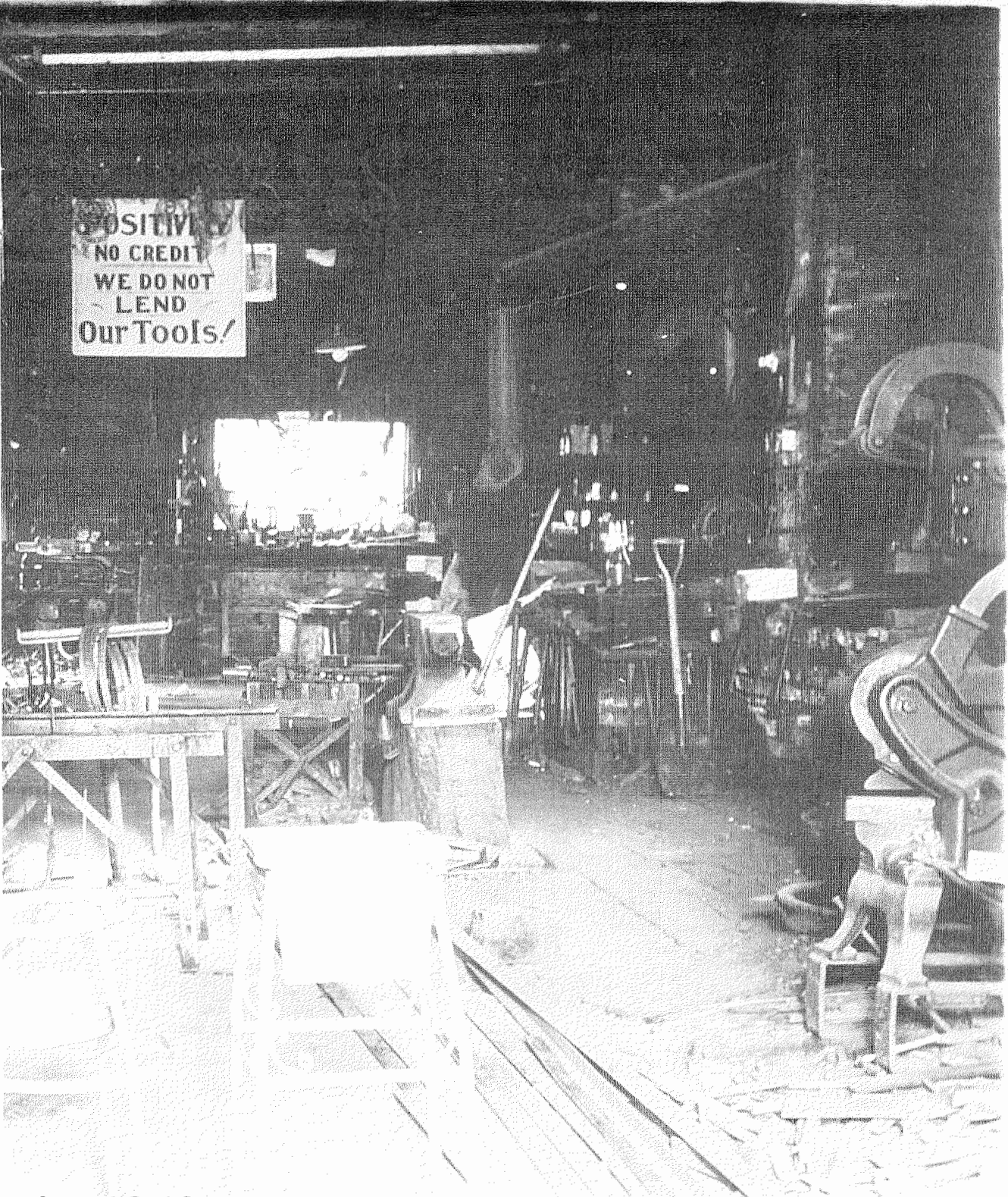
Photo follow up from last issue

Iron heritage



max saupa at his rochester, new york s

ers her artistic roots



mithy 1942



More Bartolucci

Great Demo Notes by Al Griswold, Union River Forge, Belfair, Washington

Sunflower

5/24/02

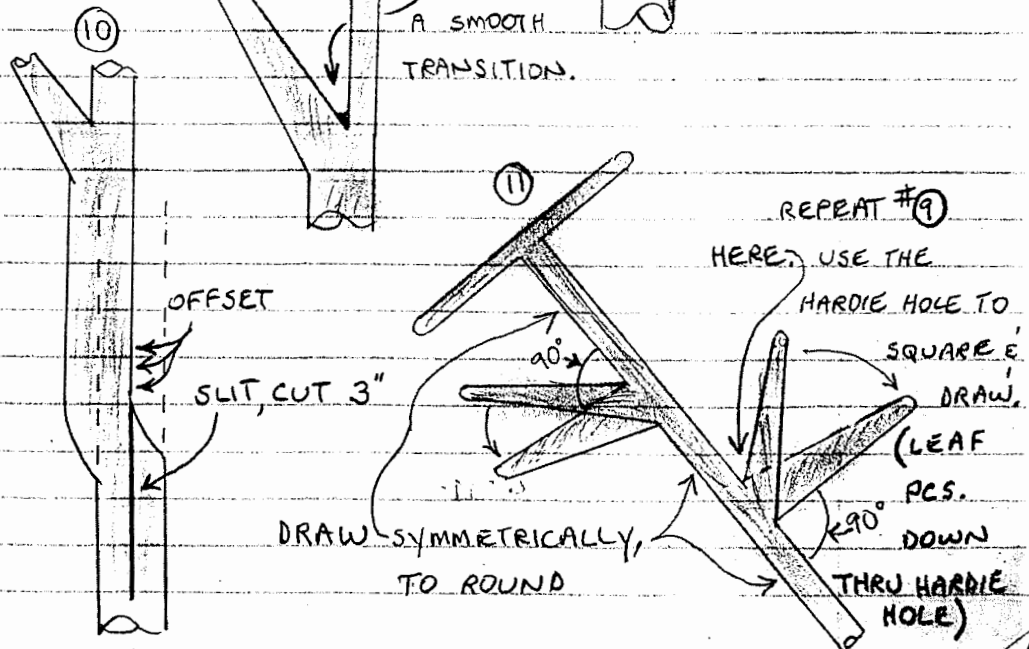
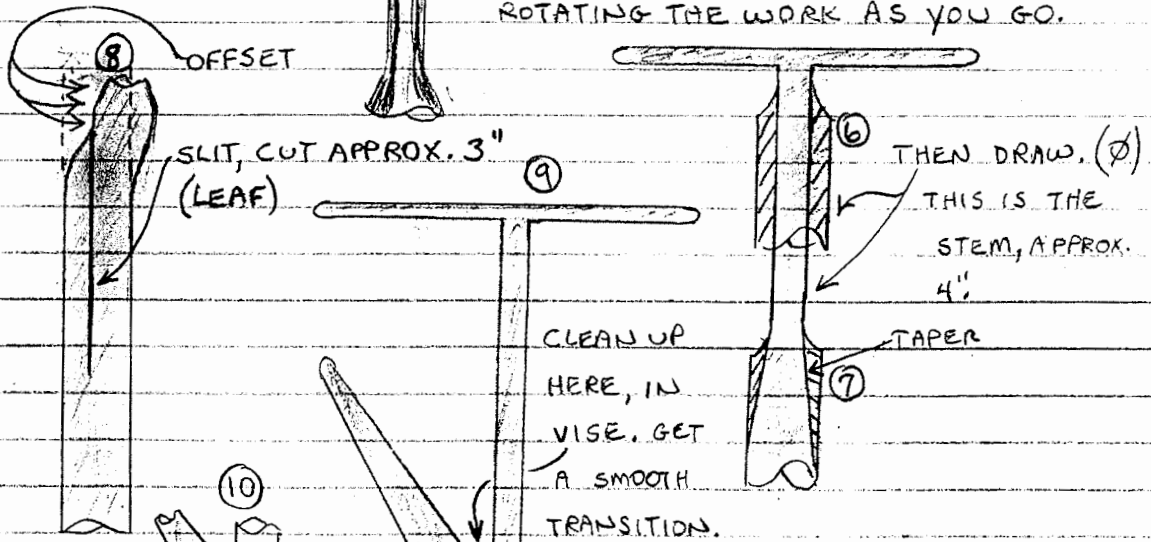
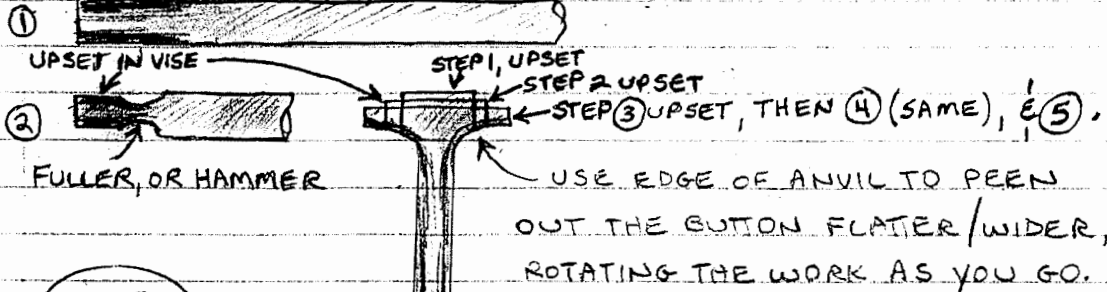
NWBA SPRING CONF.

PG. 1

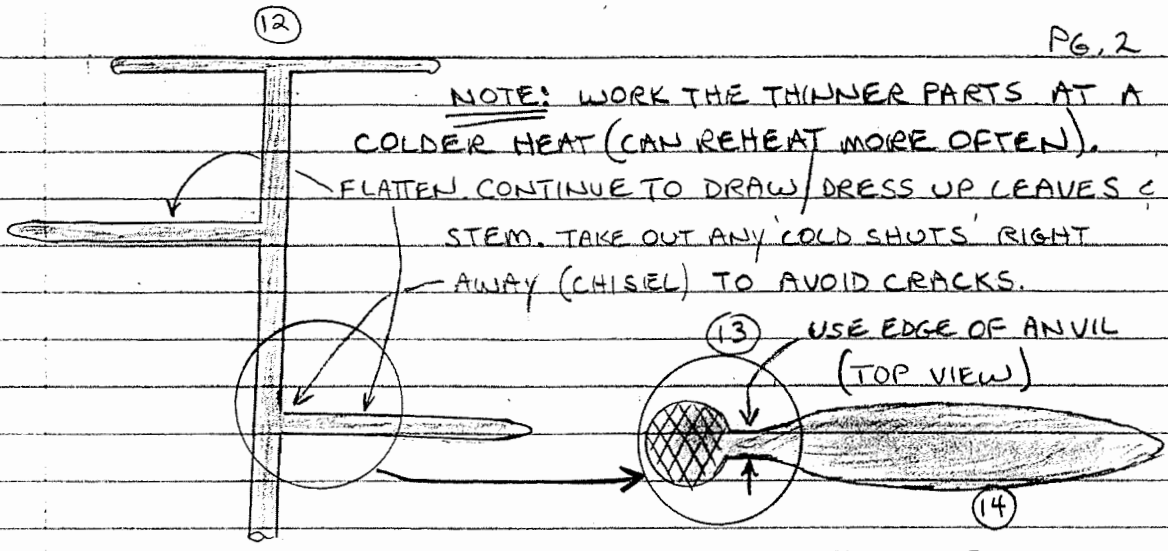
ANGELO BARTOLUCCI

SUNFLOWER, FROM 1 PC. OF WROUGHT IRON

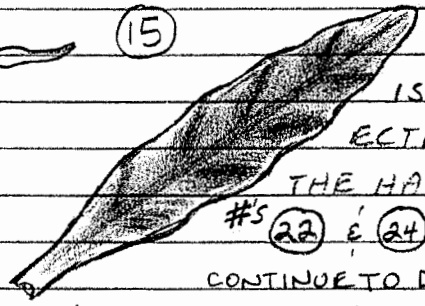
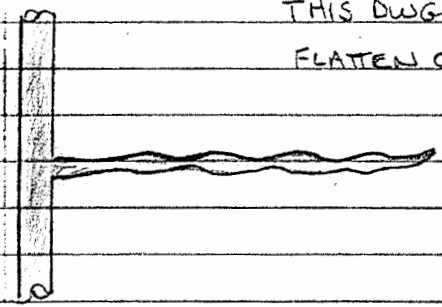
Ø 18" X 7/8" - 1" □



PG. 2



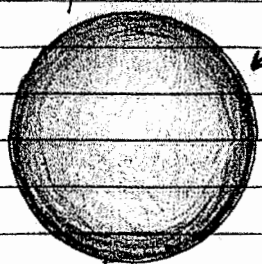
BEGIN DRAWING TO SHAPE THE LEAF. THEN SHAPE THE LEAF (DO TOP LEAF FIRST - THIS DWG. SHOWS THE LOWER LEAF). FLATTEN OVER SEVERAL HEATS, CAREFULLY.



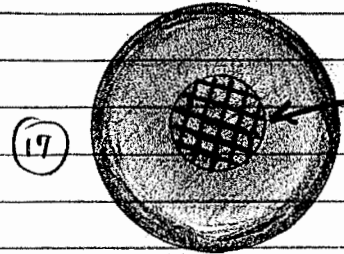
THE 'WAVY EFFECT' IS CREATED BY SELECTIVE FULLERING WITH THE HAMMER PEEN. SEE #'S (22) & (24).

CONTINUE TO DRESS UP THE STEM (TO THE FLOWER) - SEVERAL HEATS.

(16) TOP VIEW, FLOWER



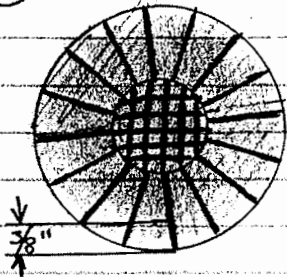
HAMMER THE EDGES (TAPER), INCREASE THE DIAMETER SYMMETRICALLY.



USE A CHISEL TO 'CUT' SEEDS IN CENTER (USE THE VISE).

18

PG. 3



USE A CHISEL TO CUT THE PETALS. DO IT COLD. START IN THE VISE, FINISH ON THE ANVIL. THE LAST $\frac{3}{8}$ " OR SO IS CUT THROUGH.

19

POINT THE FLOWER PETALS BY FILING.



20

FULLER THE PETALS.

(USE THE ANVIL STEP)

22 'CUP' THE LEAVES SLIGHTLY 'UP' TOWARDS THE FLOWER.

23 BRING THE LEAVES TO A 25-30° UP ANGLE. TOP FIRST.

NOTE: ITALIAN LEAVES: SHAPED. GERMAN/FRENCH LEAVES: VEINED.

24 A SLIGHT 'ESS' CURVE THROUGHOUT THE STEM ADDS A LOT OF APPEAL. THE LEAVES HAVE A SLIGHT DOWNWARD CURVE OVERALL, AFTER THEY ARE CUPPED (THE WIDTH).

25 BEND TOP OF STEM SO FLOWER FACES FORWARD.

26 'DISH' THE PETAL ENDS UP SLIGHTLY.

27 WAX

NOTE: ANGELO USES LOWER HEATS THAN USUAL, AS WROUGHT IRON IS EASIER TO WORK, AND TO ALLOW FOR MORE HEATS SINCE HE ISN'T BURNING THE PIECE.



NWBA SPRING CONF.

5/25/02

ANGELO BARTOLUCCI

PG. 1

GLADIOLUS, FROM 1 PC. OF WROUGHT IRON
1/4" X 1/4" X 30" (?)



①

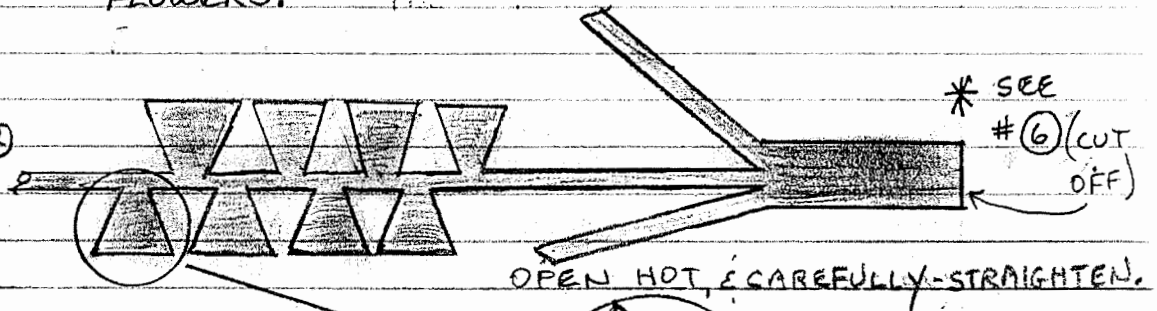


HOT CUT FOR 5 OR
SO PCS. FOR THE STEM.

THE TRIANGLE PCS. ARE
LEFT WITH APPROX. 1/4"

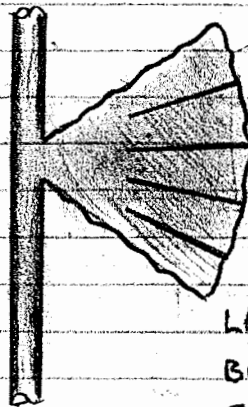
UNCUT NEAR THE INNER
POINTS, THESE WILL BE
FLOWERS.

②

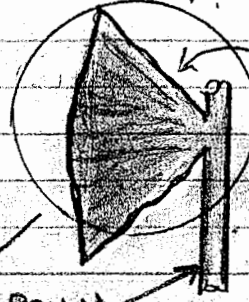


OPEN HOT, & CAREFULLY STRAIGHTEN.

④



③



SPREAD w/ CROSS
PEEN (ALL FLOW-
ERS), TO ABOUT
1/16" THICK. SPREAD
SIDE TO SIDE &
OUTWARD.

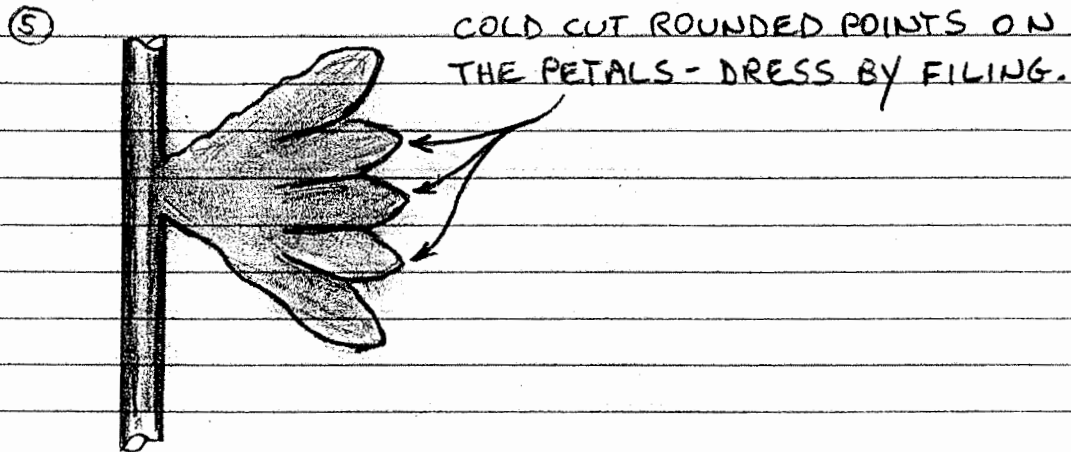
ROUND

LAYOUT FOR COLD CUTTING ON
BOTH SIDES. CUT IN 4 PLACES
FROM BOTH SIDES, EACH FLOWER.
(SOME TIME IS INVOLVED HERE).

TRY TO MAKE EACH FLOWER PETAL
EQUAL IN SIZE & OVERALL SHAPE.

PAGE 2

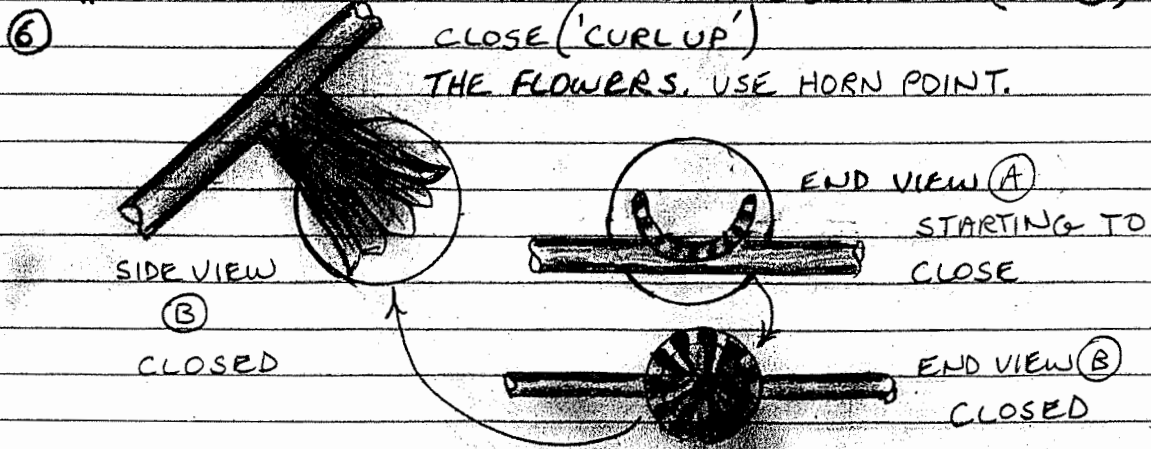
NOTE: KEEP THE CHISEL SHARP. TOUCH IT UP WITH THE GRINDER FROM TIME TO TIME.

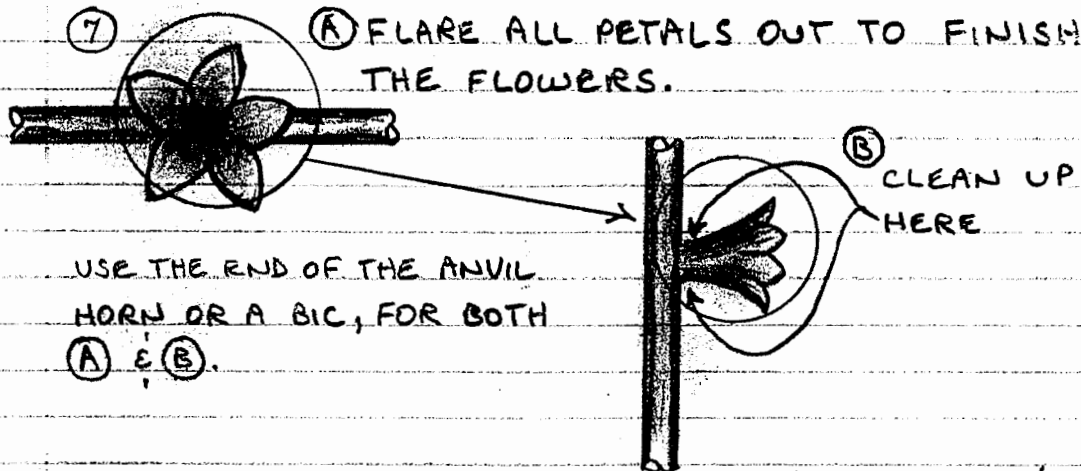


NOTE: AGAIN, ANGELO WORKS THESE DETAILED PCS. AT LOW HEAT (RED/DULL RED), OR COLD TO PREVENT THE IRON FROM GRANULATING & BECOMING BRITTLE.

NOTE: ANGELO USES COKE OCCASIONALLY IN THE FIRE AS IT PRODUCES A LOWER FLAME, ALLOWING HIM TO SEE THE "HEAT" BETTER.

* CUT STOCK PC. OFF ABT. 2" FROM THE LEAF CUTS (SEE ②)

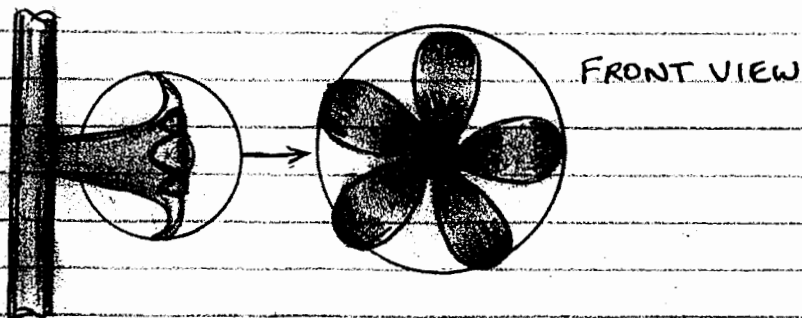




USE THE END OF THE ANVIL HORN OR A BIC, FOR BOTH (A) & (B).

NOTE: FOR THE SMALL AREAS NEEDING CLEANUP/DRESSING (B) FOR EXAMPLE, ANGELO USED A SMALL HAMMER WITH A LONG NARROW CROSS PEEN.

(8) AS THE FLOWER PETALS ARE WORKED OVER THE HORN, EACH PETAL SHOULD BECOME LESS POINTED AND MORE ROUNDED, AS THEY TRANSITION FROM THE CONICAL ORIGIN TO A 'FLAT AT THE FRONT' AND THEN SLIGHTLY RECURVED.

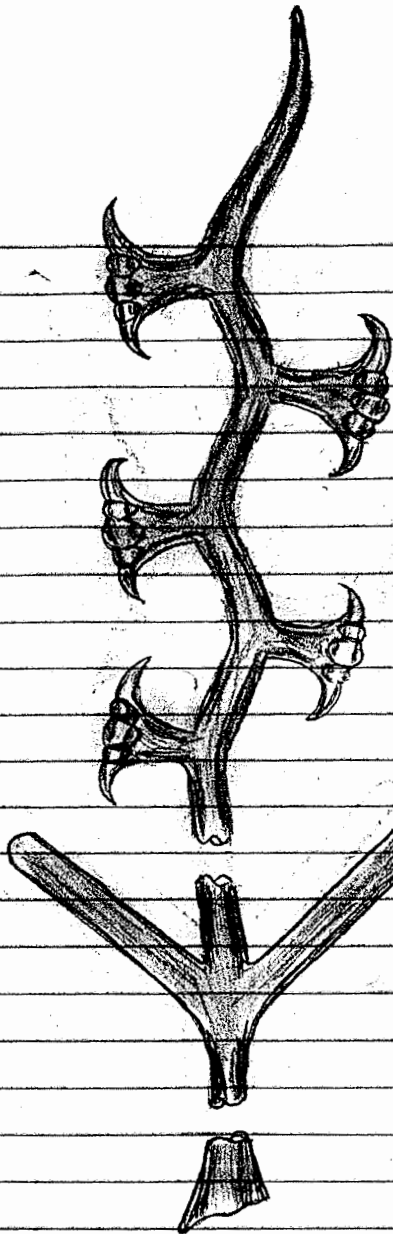


9

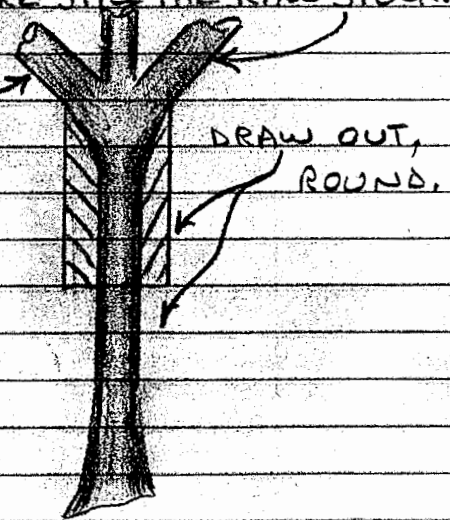
PG. 4

PUT SOME AESTHETIC BENDS IN THE STEM.

TURN THE FLOWERS TO FACE DIFFERENT WAYS, TO SUIT.

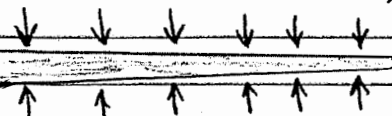


10 FINISH THE STEM.
(THESE ARE STILL THE RAW STOCK.)



11

USING THE ANVIL EDGE, FLARE OUT THE LEAF PCS.



TO 90°. THEN USE THE HARDIE HOLE/ANVIL EDGE TO FLATTEN/SHAPE THE LEAVES

CLEAN UP

TOP VIEW, LEAF EDGES ARE TURNED UP.

12

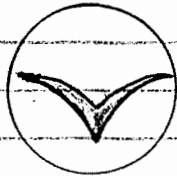


(SEE # 13)

USE THE ANVIL EDGE TO 'CREASE' OR VEIN THE CTR. OF THE LEAF.

PG. 5

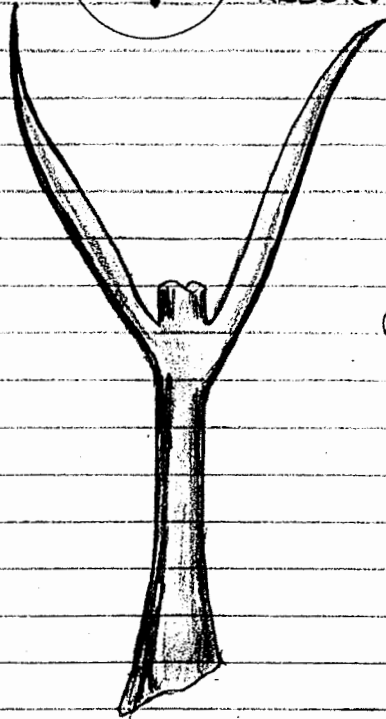
13



END VIEW OF LEAF (FROM #12) -
RECURVE SLIGHTLY.

BEND LEAVES TO AN 'UP' ANGLE -
SHAPE TO SUIT.

14



15 FINE TUNE, BRUSH TO CLEAN,
& WAX

NWBA SPRING CONF.

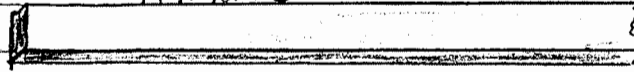
5/26/02

ANGELO BARTOLUCCI

LEAVES, ETC. FROM WROUGHT IRON

1/4" x 1/2" x 3'

LEAF

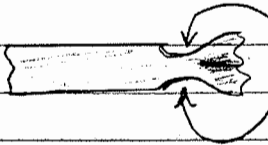


①



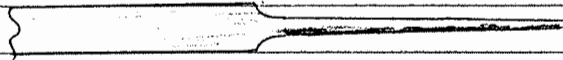
HAMMER/PEEN TO SHAPE.
'CUP' SLIGHTLY ('SPINE' DOWN) CTR.

②



NECK DOWN

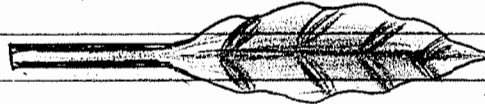
③



HEAT, TWIST 90°
FINE TUNE

CUT, SHAPE ϕ

④



FULLER THE EDGES,
OVER THE 'PARTIALLY OPEN
VISE JAWS.

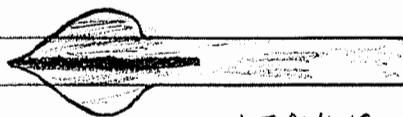
SIDE VIEW



SPADE END SCROLL

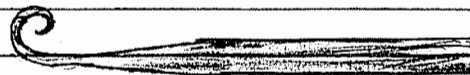
END OF LEAF PC.

①



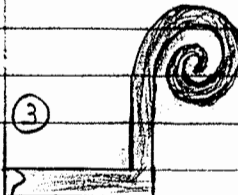
HAMMER A 'SPADE' END,
LEAVING A SPINE OR RIDGE DOWN C.

②



SCROLL TO SIZE ~
SCROLL TO SUIT

③

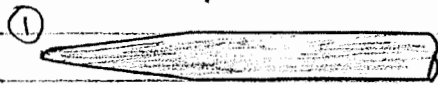


SQ. CORNER

END OF SCROLL PC.

ARROWHEAD/SPEARHEAD

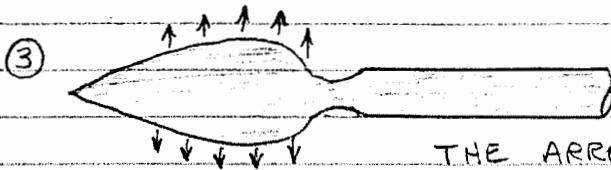
PAGE 2



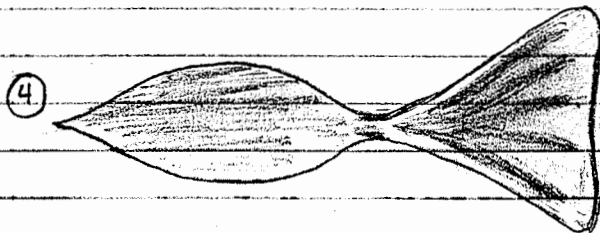
HAMMER A LONG FLAT POINT.



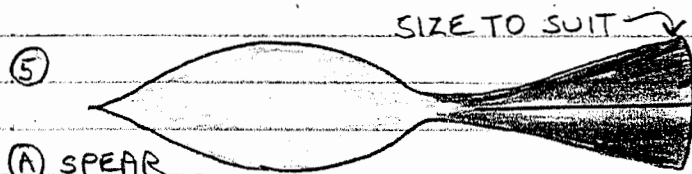
FULLER/NECK DOWN.



PEEN/HAMMER TO GET THE ARROWHEAD SHAPE



PEEN OUT TO THIS SHAPE. CROSS PEEN ON THE HORN.



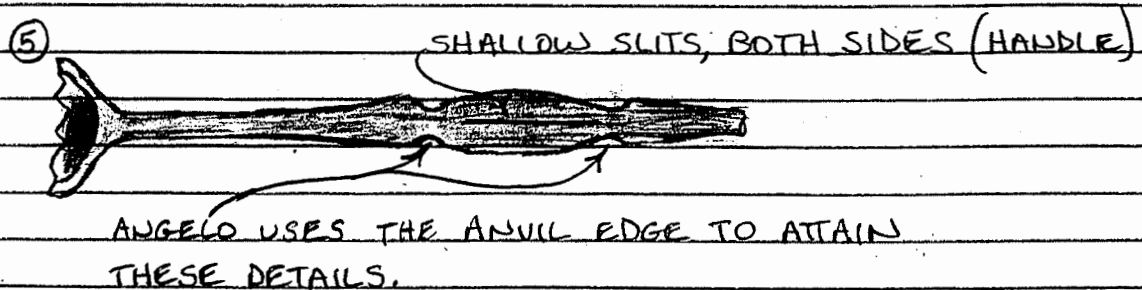
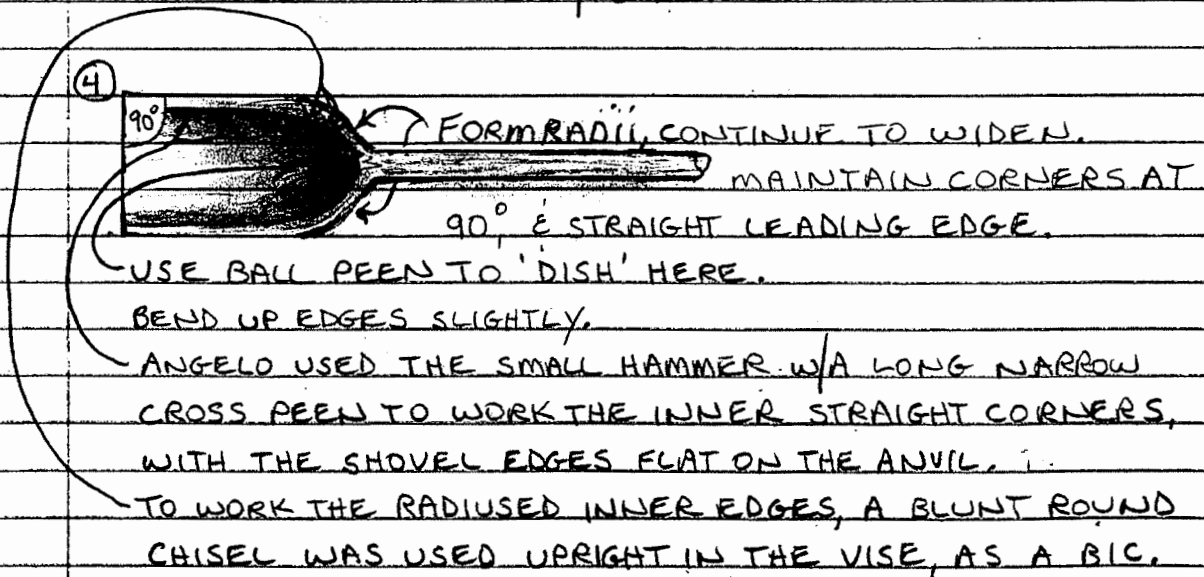
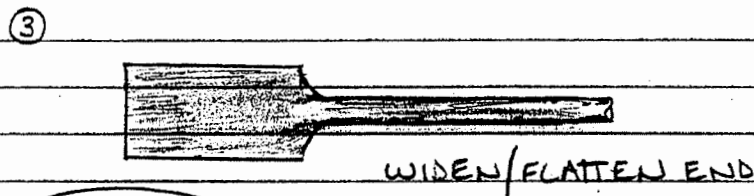
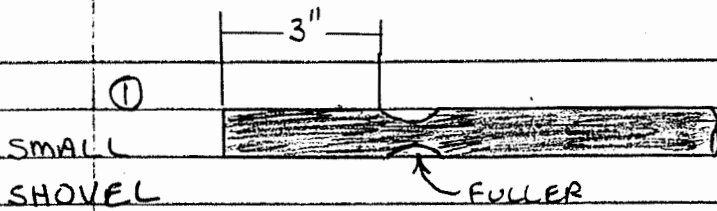
ROLL TO ROUND, (SOCKET) TO ACCEPT A SHAFT OF WOOD.

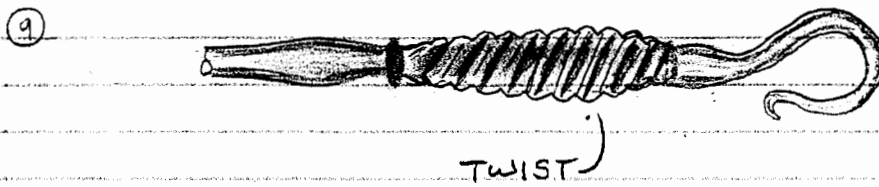
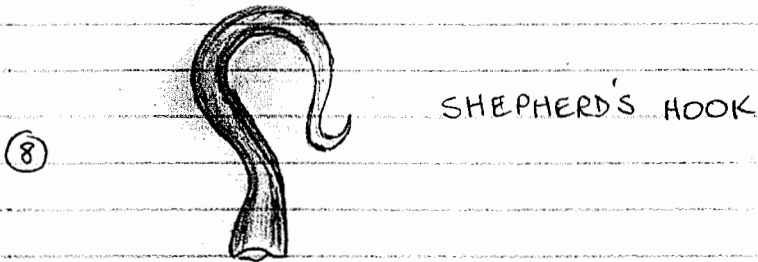
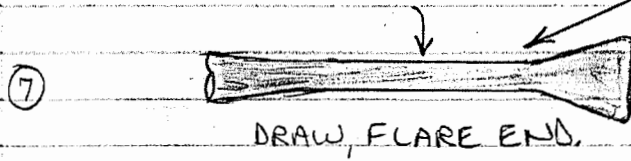
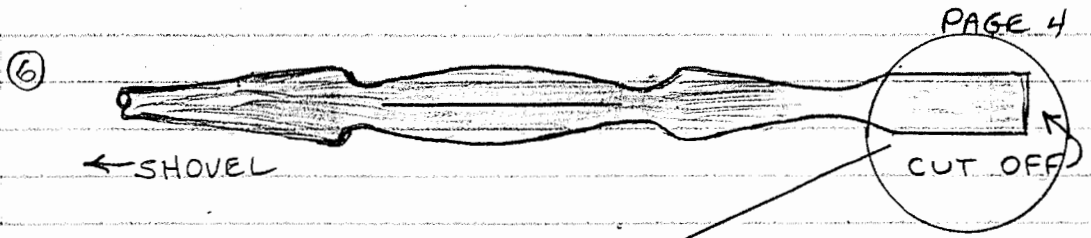
USE THE HORN END, AND A 90° ROUND POINTED BIC FOR FINAL TUNE-UP ON THE SOCKET. ORANGE HEAT.



B) ARROW

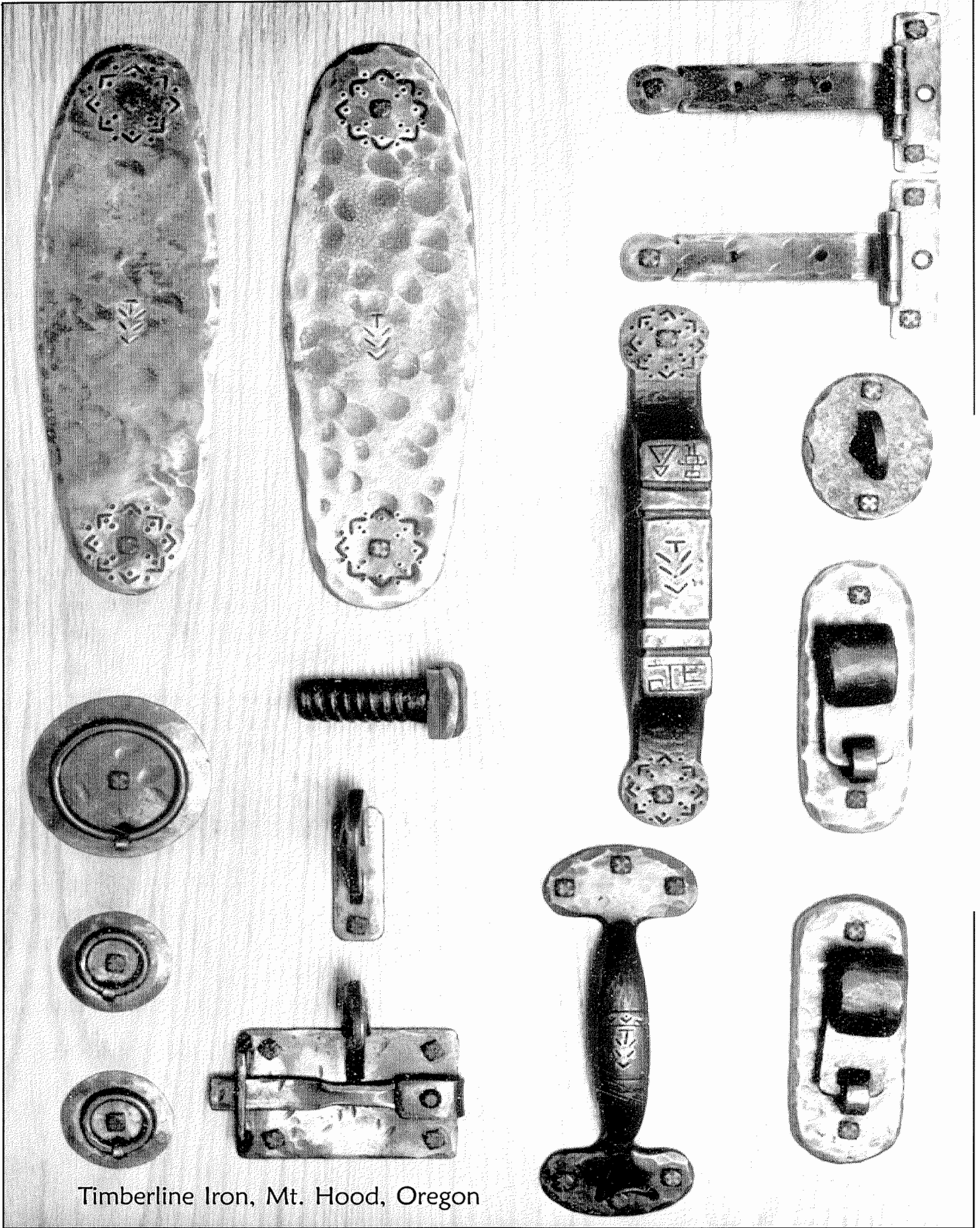
END OF SPEAR/ARROW





⑩ HEAT & WAX.

⑪ THANK YOU, MR. BARTOLUCCI. !!



Timberline Iron, Mt. Hood, Oregon



Blacksmith Bill Collecting ~ Got a Deadbeat Client? So Did Blacksmith John Heard Until He Sicked the forces of King George the Third on him!

Cumberland County of George the Third by the Grace of God of Great Britain, France and Ireland. King, Defender of the Faith. To the Sheriff of Cumberland County Greetings. We Command you that you take James Fleming late of your County, Yeoman, otherwise called James Fleming of the Town of Carlisle, County Cumberland, if he be found in your bailiwick and him safely keep so tht you may have his body before our Justices at Carlisle at our County Court of Common Pleas there to be held the Eighteenth Day of January Next, to Answer, John Heard Blacksmith, in the County of Lancaster of a plea that he render to him thirty pound Lawfull Money of Pennsylvania. Which to him owes and unjustly Detains and have you then there this Writ. Witness John Armstrong Esq. at Carlisle the twenty third Day of October In the Second Year of our Reign.

John Armstrong

Cumberland County of George the Third by the Grace of God of Great Britain, France and Ireland. King, Defender of the Faith. To the Sheriff of Cumberland County. Greetings. We Command you that you take James Fleming, late of your County, Yeoman, otherwise called James Fleming of the Town of Carlisle, County Cumberland, if he be found in your bailiwick and him safely keep so tht you may have his body before our Justices at Carlisle at our County Court of Common Pleas there to be held the 18th day of January next, to Answer, John Heard, Blacksmith, in the County of Lancaster of a plea that he render to him 30 Pounds of lawful money of Pennsylvania. Which to him owes and unjustly Detains and have you then there this Writ. Witness John Armstrong, Esq. at Carlisle the twenty third day of October. In the Second Year of our Reign. No. 6 January Term 1762, John Heard v. James Fleming, Cash Debt \$30.



"I don't need a plowshare...Can you beat my sword into a Lamborghini?"

WADE WADE . . . CEDAR FORGE! GOES TO OLD



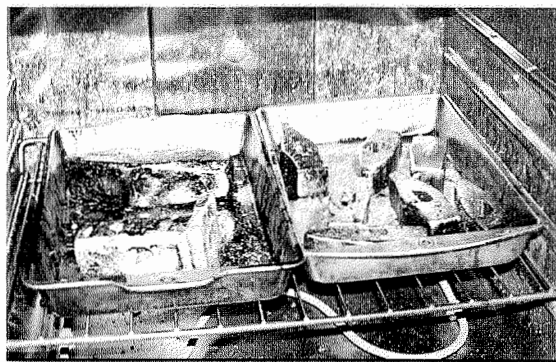
A weekend workshop at Old Cedar Forge is an experience not to be missed! Last Fall the Intermediate Workshop was run on a “bring-your-problems” basis. All Jerry Culberson asks is that you have a clear idea of what you want to learn or accomplish and the motivation to put 100% of your efforts and attention into attaining your goal.

Jerry will carefully listen to what you want to do or learn, no project too bizarre, no problem too complex. Even if what you want to do defies the laws of physics or if your shop drawings resemble a *Rube Goldberg* cartoon, as long as safety isn't compromised he will let you try your “impossible” feat and will help you in any way that he can. If, after *full-out* efforts on your part you fail to, for instance, make railroad spikes with your feet, you will see a twinkle in Jerry's eyes—but he will not rub it in a *la told ya so!*

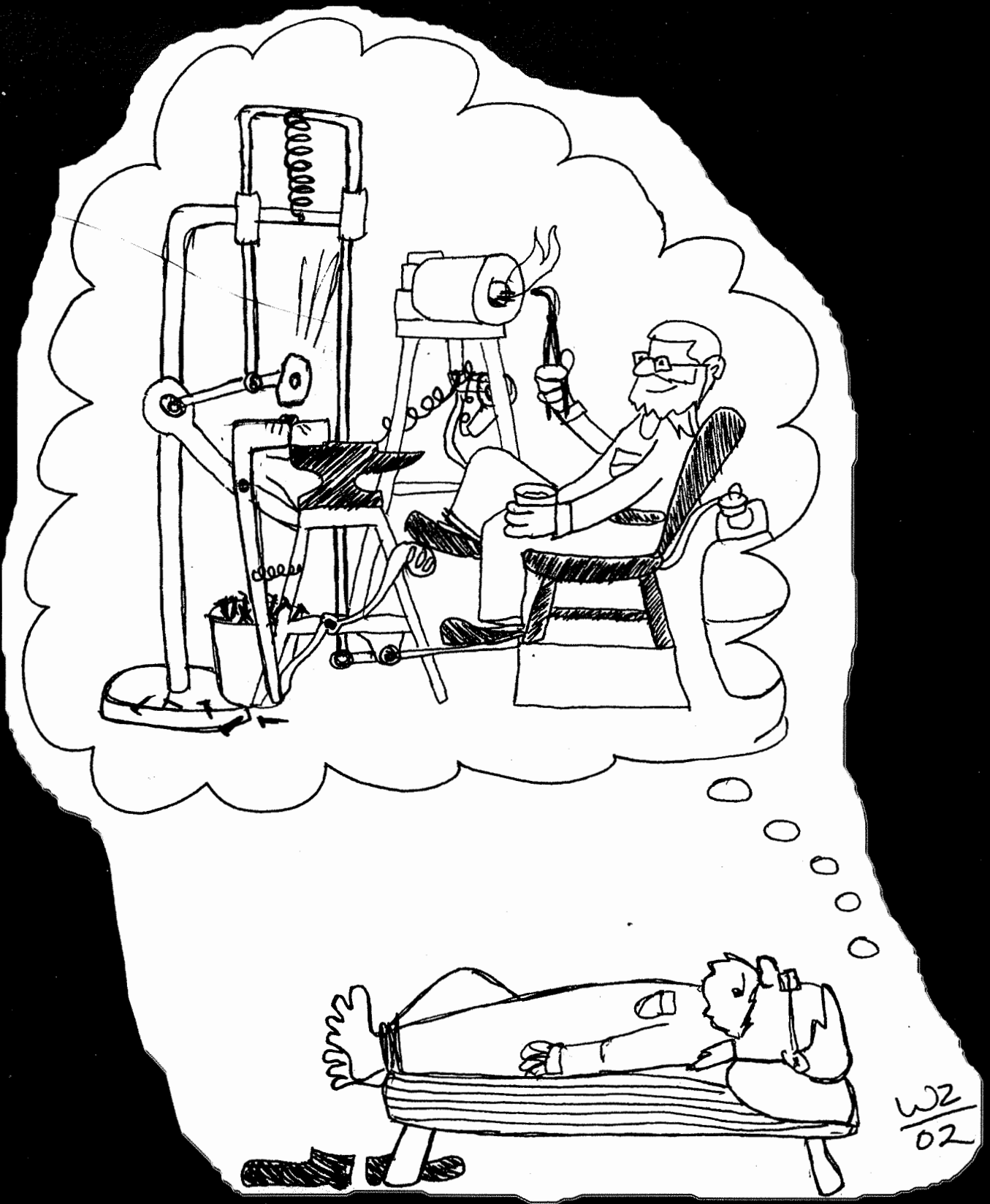
Although the weather was still too hot for the ice-sculpture centerpiece, as had been promised in the Hot Iron News, hostess Ina put on a very nice variety of good wholesome food. Not regular calories, *gourmet* calories! The kind that weight-conscious dieters can fully indulge in, secure in the knowledge that energy spent out in the workshop will burn off the excess.

Jerry has the forges lit by 7:30 a.m. Friday, Saturday and Sunday and, except for a 45-minute lunch break, expects 100% participation and maximum effort to attain the goals you, yourself, have set. He has seen every goof-up an aspiring smith can make and can see and *hear* if something is going wrong from the full length of the busy, noisy shop. And he will let you know from the full length of the shop if he doesn't get to you quickly enough. He will stand and watch you for a second, then walk away, but he will still be watching what you are doing, the walking away just relieves the pressure.

We are very lucky here in the Pacific Southwest (if you're a Canadian! *ed.*) to have Jerry Culberson so close by and willing to share his knowledge to promote the craft. He is a valuable resource to get your progress onto the right track. *Do not* pass up the opportunity to take one of these workshops!



A WORKSHOP AT OLD CEDAR FORGE STARTS OFF WITH A HARDY BREAKFAST. HERE JERRY COOKS UP A BATCH OF HIS FAMOUS BLUEBERRY HAMMERCAKES.





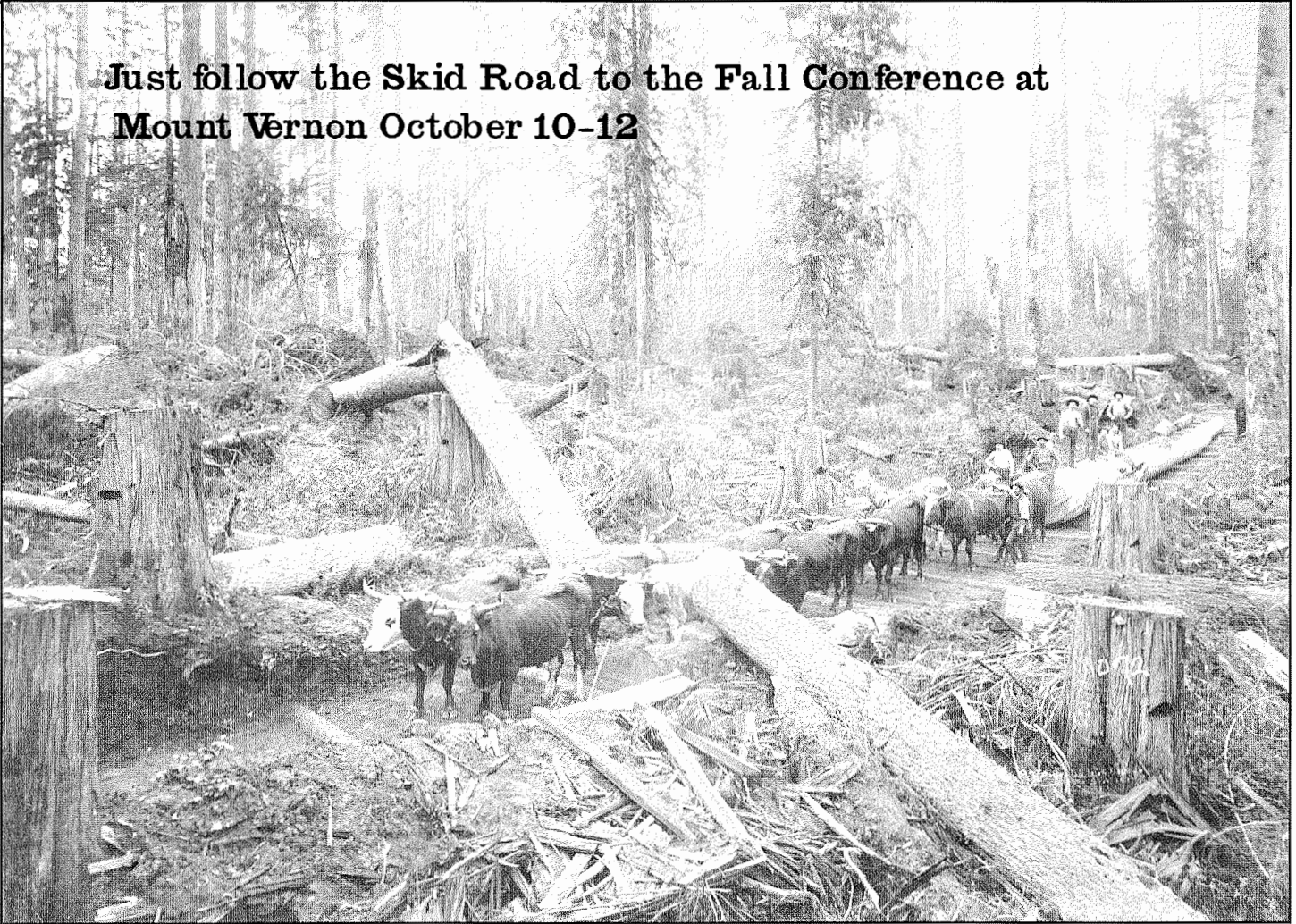
Shooting Iron

by Jerry Kagele

(a users guide to quick, down and dirty successful photography)

Successfully photographing iron is tricky and requires a few special techniques. First, there should be a neutral background. I generally prefer white in order to get maximum contrast. The background should not be too close to the piece so that it can get blurred out. You can use a higher shutter speed and a larger F stop to accomplish this. The smaller the F stop, the more detail in the background. An excellent and cheap backdrop is Tyvek house wrap. You can buy a mile of the stuff at any hardware store very cheaply. Second, determine the exposure *at the surface of the piece*. Forget about what the exposure of the background is. All you care about is what amount of light is being reflected off of the iron. Hold the camera close enough to the piece so that the exposure meter reads only the surface of the iron. I'm talking 6-12". If the background gets overexposed and turns white, so much the better. In my experience in shooting hundreds of pieces of iron, it is really hard to *over-expose*. Black iron can absorb just about all of the light that you can cast on it and reflects very little back to the camera. When in doubt, err on the side of too much light. You can always scan it into your computer and tweak the light balance. This is significantly harder to do if you underexpose. You'll be surprised at how little light registers on the light meter when you focus only on the iron. Believe it! With a bigger piece, read several spots and take an average. Third, get a good light source. This is for both illuminating the piece as well as creating shadows to highlight the detail. You should have at least two lights to accomplish this. Since I shoot almost exclusively in black and white (the proper artistic medium for iron, I believe!) I don't have to worry about such exotica as light temperatures (Kelvin) and color balance and distortion. A couple of halogen spotlights from the hardware store work just fine and are dirt cheap. Place them within a couple of feet of the piece in order to get maximum light. Look at the illuminated piece to see how the light plays on it. The detail on the piece should be highlighted by shadow. You can move one of the lights to the side or back to lessen it's intensity and increase shadow on the piece. This controlled lighting is much better than using a flash which merely creates a flash spot on the photo. Keep looking at the piece critically to see if you are achieving the effect that you want in your photo. Fourth, frame your photo in the viewfinder. *Don't look at the piece directly, look at it in the viewfinder!* The most common mistake that blacksmiths make in photographing their work is to take the shot while standing up. *Just about every object on earth, including your mother-in-law, is best photographed if the camera is on a plane even with the mid-point of the object:* try it the next time you take a snapshot of something! A good photographer can't be shy. You have to kneel or lay on the floor or assume whatever position it takes to get a good angle. Iron always looks better if shot at it's midpoint rather than from above. Fifth, use proper film. I shoot professional Kodak black and white with an ASA of 400. The higher the ASA, the grainier the print. 400 is about as high as I care to go. The halogens seem to produce enough light to allow adequate exposure for ASA 400 film. If I was taking a real fine portrait of someone, in a well-lighted studio setting, I probably would shoot around ASA 200 or less. Sixth, get a macro lens or a camera with macro capability. For photographing detail and smaller pieces this is indispensable. *Always place the camera as close as possible to the piece! Fill the viewfinder!* One of the most common mistakes is too much distance between the camera and the piece. Otherwise, the detail is lost. If it's a big piece focus on the most interesting part of the piece and forget the rest e.g. the detailed handle of an otherwise ordinary poker. A good tripod can also ensure a steady shot although I have come to regard them as cumbersome and, if I can keep the shutter speed at 1/60 or more, generally don't use them--especially if I have a lot of NWBA iron to get through! Last, if you're using a digital camera, make sure that you won't chunk out if you enlarge the photo. For shooting large objects, such as gates, that might have distracting backgrounds, try using a natural neutral background e.g. darkness. Shoot the object at night and light it with spotlights or headlights. Set up the lights, put the camera on a tripod, and set the shutter to B (for bulb). This allows a cable release to do a time exposure if the automatic shutter settings are too slow. Another technique is to open the shutter in the darkness and then use a hand-held flash unit to apply light to the object. You can use a number of flashes to cover the object and put the light wherever you want it. Regardless of the photo problem there is probably a solution for it. Snap!

**Just follow the Skid Road to the Fall Conference at
Mount Vernon October 10-12**



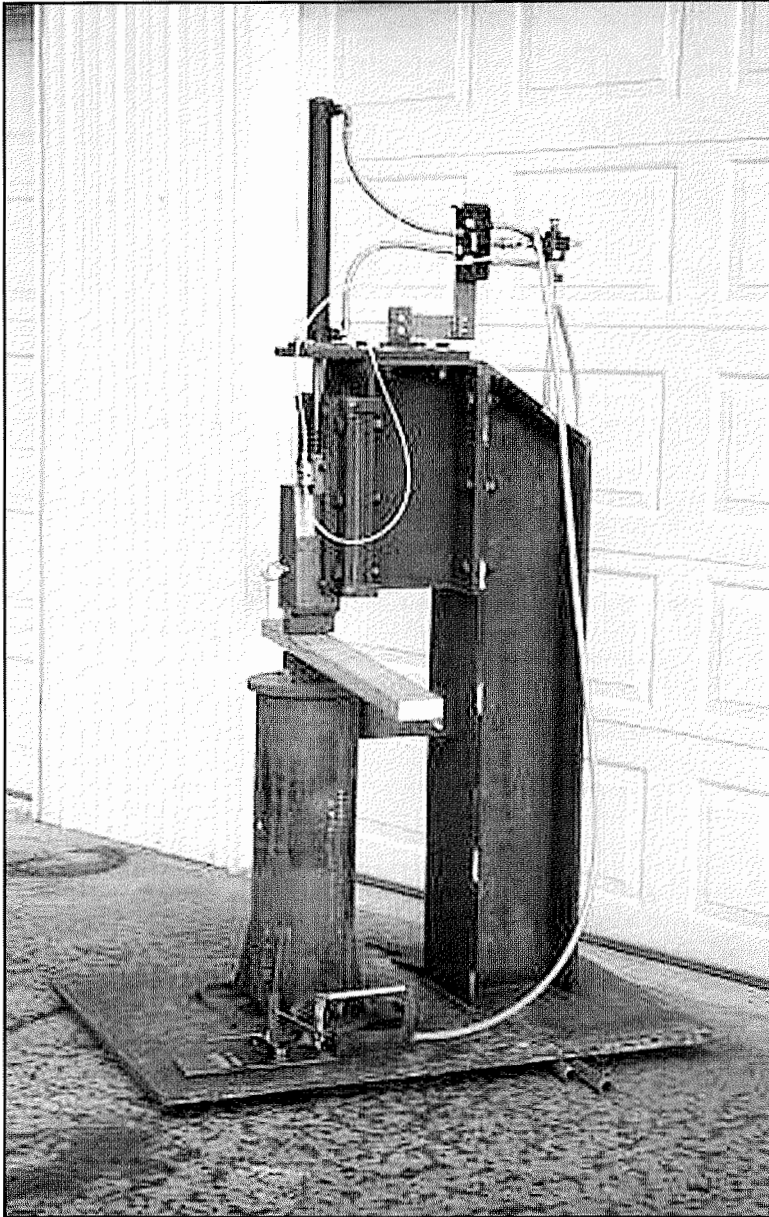
HOT TIP ~ Bob Race

Scale Removal

Take from four to six worn-out hacksaw blades of the same length and stack them with the teeth going in alternate directions. Put a short stove bolt through the eyes and bind them together with lock washers and nuts. The twelve inch blades are the best because they give a little more handle to grab. The number of teeth doesn't matter. The blades will follow irregular contours because of the layered effect of the stacked blades. There are always depressions from forging and the flexing gets into and digs out those hard-to-reach pockets created from scale build-up. The alternate direction of the teeth allows you to go in two directions at once.

Bob Race
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Portland, Oregon 97233
503 253-7334
bobrace@portland.quik.com





BIG DEMAND FOR AUTOMOBILES.

While many people have felt that the automobile is a fad which will soon die out, the facts are that such is the demand for vehicles of this class that the big factories in New York and vicinity have orders which will test their capacity for six months to come.

A large automobile factory in this section of the country doesn't want to take any more orders, even though they are increasing their facilities as fast as possible.

The bicycle was thought to be a fad when it was first introduced, but it has been found to be a very useful vehicle.

The automobile, as it will be perfected from time to time, will doubtless prove equally useful, if not more so.

Automobiles, however, are by no means likely to altogether take the place of horses, though in the large cities it is quite probable that they will supersede horses in a large degree within a few years. While such a condition of things would prove a hardship to the horseshoers of big cities, it is not likely that the country blacksmith or horseshoer will find his business very much curtailed.

People in the country have got to have horses for a variety of purposes, and the trade of the country blacksmith, instead of being injured, is likely to increase if he will avail himself of his opportunities and learn how to repair bicycles and automobiles when occasion requires, and add to his business the sale of vehicles or farm implements, or other things that he can dispose of to advantage.



Rick Leeson Power Hammer ~

This hammer was built using the ABANA plans by Ron Kinyon as a guide. I wound up with the hammerhead and die weighting 93 pounds. This strikes on a 600-pound anvil. Most of the construction metal was obtained at a local scrap yard. This took several trips over many months waiting for the right materials to show. A friend donated the one-inch thick base plate. Another friend supplied the air cylinder. I purchased the five-port four-way valve, air lines, and fittings new. The total cost of this project was about \$350. I thank the Whatcom and Skagit county blacksmiths who lent a helping hand during this endeavor. I'm also grateful to my Canadian friend Wade Wade, who was always willing to haul this project home relieving me of my burden.

Rick Leeson
3128 Behme Road
Custer, Washington 98240
360 366-4033

Board Minutes: January 25, 2003



Jan. 25th, 2003, NWBA Board Meeting. Held at Super 8, Federal Way. Meeting commenced at 1:00 pm. Board Members Present: Terry Carson, Gary Chapman, Christa Fairbrother, Alan Flashing, Laura Goemaat, David Lisch, John Loeffler, Mark Manley. David Tuthill gave a presentation at the start of the meeting about his experience with the tradition of a blacksmiths nail tree while with the Zimmermann's in Germany. His trip there was partly funded with the help of the NWBA and he would like to start a tradition of a nail tree here. An article is being translated for a future HIN issue about this tradition. A motion was made by Mark M. to establish a NWBA nail tree and 2nd by John. Motion carried. This event will be promoted in the spring conference flyer. All nails submitted must fit into a 3/8" hole. The minutes from the last meeting were approved. Officer Elections: Christa F. will fill the current opening of secretary until Sept. All other officers will maintain their positions. Officers Report: President: Nothing at this time. Vice President: Nothing at this time. Secretary: Nothing at this time. Treasurer: A treasurer's report was reviewed. 2003 Committee Assignments: Insurance: Jerry K., John L. Grants: Terry C., Dave L. Workshops/Education: Terry C., Alan F., and John L. (this committee needs to work closely with the insurance committee at this time). Club Storage/trailer: Christa F. Web Site: Kent R., Christa F. Library: Don K. Sound System: Mark M. Video Systems: Laura G., Gary C., Christa F. Roster/Mailing List: Al K. HIN: Jerry K., Mark M. Safety Committee: Alan F., David L. Committee Reports: Insurance: No report Grants: One grant for \$150.00 to Tami B. Workshop/Education: No report Club Storage: The trailer is in St. Helens OR. Thanks to Neil Pope & Dick Naven. Website: The site still needs the grant info. A local University may be working on the site for a project in the future. Library: No report Sound System: No report. Video: New committee. Roster: No report. HIN: No report. Conference Updates: Spring 2003. Caterer has received deposit, as well as Columbia Co. Fairgrounds. Terry Carson will be demonstrating general blacksmithing. Richard Shepherd will be demonstrating treadle hammer operation. Nail tree and tong rein keeper events will be in the flyer. Fall 2003: Jorgen Harle and Paul Thorne will be the demonstrators in Mount Vernon. 2004 Need to confirm if that is the 25th anniversary year. Old Business: Workshop registration forms: This form is still under review. There is no NWBA insurance available for workshops at this time. We will review this subject at the next meeting. Liquidation of archives: Will review once more at the spring conference. All board members need to vote. Decisions will be made at the summer meeting. ABANA programs: Mark M. will be the ABANA affiliate representative. A notice to that effect should appear in the newsletter. New Business: Conference registration and guests: We have had trouble with people attending without registering. This is an insurance issue so we need every members help. The following motion was made: 1) Guests will be receiving a different colored nametag. 2) Any registered attendee must accompany and monitor their minors who are attending as guests at all times. 3) All organization members are expected to register as attendees (not guests). 1st John L, 2nd David L. Motion carried. John L. will review our insurance coverage for guests. John L. and David L. will help with patrolling nametags for food and Laura G. will assist registration. At the next meeting we will review the possibility of offering family memberships to assist in this area. John L. will check on the insurance issues regarding this. Conference Safety: The safety committee will review these needs. In the future, they may inspect all conference equipment and make safety adjustments on site. Workshop short falls: Specifically the Ike Bay workshop. Situation was discussed and a motion was made by David L. to not financially subsidize workshops. 2nd Alan F. Motion carried. New NBWA brochures: Tabled until next meeting. Directors/Officers insurance: Mark M. will get a quote on this. Demos at Columbia County Fair in St. Helens OR. Mark will organize this independently of the NWBA. Artist Trust: Motion to join the organization made by John L. 2nd Mark M. Motion carried. Open items: Caterer: We determined the ration of meat vs. veggie dinners for the banquet. Someone wants to donate 20 years worth of Anvil's Ring. Laura G. will contact them to clarify their wishes. HIN: A motion was made to look into additional publishers for the HIN. 1st John Loeffler, 2nd Mark Manley. Motion carried. The meeting was adjourned at 4:00. The next meeting will be at the spring conference.

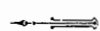


Board Minutes: March 8, 2003



NWBA Special Board Meeting 3/8/03, Super 8 Motel Federal Way WA., Meeting called to order at 1:00 pm. Present: Terry Carson, Gary Chapman, Christa Fairbrother, Alan Flashing, (15 mins. Late), Laura Goemaat, Jerry Kagele, Al Karg, John Loeffler, Mark Manley, Absent: David Lisch. The purpose of this meeting is to calmly and openly discuss and reach resolution on the over-all structure and establishment of an editorial/publications committee, which will meet the needs of all parties concerned. Establish rules of conduct for the meeting. Presentation of Jerry's ommittee proposal. NWBA Publication Guidelines. 1. The purpose of these guidelines is to facilitate communication between the membership, the Board of Directors, and the Editor of the Hot Iron

News. 2. NWBA Committees shall include a Publications Committee. The purpose of the committee shall be to monitor publication policy and communications between the membership, the Board, and the Editor and to ensure that the Editor has timely, fair notice of any complaints or concerns regarding the publication. Any complaints or concerns of the membership, received by any Board member, shall be immediately communicated, in writing, to a member of the Committee. Said communications shall include the name of the person with the complaint or concern in order to allow the Editor to directly communicate with such person in an attempt to address said complaint or concern. Any Board member with a policy question, compliant or concern shall direct the same to the committee, which shall endeavor to resolve the same. Only in the event that the committee cannot resolve the issue shall the same be considered by the Board. 3. Any member of NWBA may serve on the Publication Committee. The Committee shall consist of three members, on of whom is the Editor. The President shall name one member and the Editor shall name on member. Discussion in regards to Jerry's proposal. Proposals from other board members. Proposal received from John L. Proposal: To approve this directive. Jerry Kagele (henceforth referred to as the Publisher) will remain Publisher of the HIN as long as he corrects the problems the Board of Directors of the NWBA (henceforth referred to as the Directors) has had with past publications. Steps to be taken to rectify the problems are as follows: 1 The Publisher must accept the organization of a Publishing Committee appointed by the Directors designed to make recommendations to the Publisher and Directors on how to improve the HIN. 2 The Publishing Committee will determine what the minimum content requirements of each newsletter will be. The Publisher will meet these minimum requirements and enhance each publication with additional items of interest to the association membership. 3 The Publisher must seek information to publish. If someone has information the Publisher wishes to publish, it is his duty to retrieve said information. We suggest the use of a cub reporter if necessary to compile the information needed to publish. Additional compensation for such person would need to be approved by the Publishing Committee and Directors. 4 Four quarterly issues must be produced on time with exact due dates of Jan. __, April __, July __, Oct. __. Dates will be verified by Post Office first class date stamp on HIN sent to each Board Member. The Publisher has six months to fully comply with this resolution. If it is determined by the Publishing Committee and Directors that the Publisher has not fulfilled his duties as Publisher of the HIN, the Publishing Committee and Directors have the right to relieve the Publisher of his duties and find a suitable replacement. John L. withdrew his proposal. Discussion in regards to other proposals. 2:30 Motion to recess. Passed. Meeting resumed 2:45. Establish operating structure of committee. i.e. Committee name, Goals, Reporting structure, Number of members. Implementation. Motion to approve Jerry's proposal as written. 1st John L, 2nd Gary C. Motion withdrawn. Establish committee members. This item was postponed until the next meeting. Motion to accept Jerry's proposal as written. 1st John L. 2nd Laura G. In Favor: Gary C., Laura G., Al K., John L. Against: Terry C., Christa F. Abstain: Alan F. Motion Al K, 2nd Terry C. for the following statements to be combined and presented at the spring meeting. Motion passed with everyone voting yes. From Mark M. The Board of Directors with Jerry Kagele, the editor, has reached an agreement on the development of a publications committee. Their responsibility is to facilitate a means of addressing conflicts. From Jerry K. The Board and the Editor have recognized that the NWBA has lacked structure in regards to its publication and they mutually agreed upon a structure to insure that the wishes of the membership will be reflected in the publication. Motion to adjourn Terry C., 2nd Al K. Meeting Adjourned at 4:10.





Board Minutes: April 25, 2003

NWBA Board Meeting 4/25/03. Held at Columbia County Fairgrounds, St. Helens OR. Board Members present: Terry Carson, Christa Fairbrother, Alan Flashing, Laura Goemaat, Jerry Kagele, David Lisch, Mark Manley, Ken Williams. Board Members absent: Gary Chapman, John Loeffler. Several non-board members were present as well. The meeting was called to order at 5:00 pm. Welcome to Ken Williams as a new board member. The minutes of the board meetings from 1/25/03 and 3/8/03 were reviewed and approved unanimously. Officers Reports: President: Barry's Awards donated nametags for the Board Members. Vice President: Nothing at this time. Secretary: Nothing at this time. Treasurer: A financial statement was handed out and reviewed. Committee Reports: Insurance: The committee is still working on workshop insurance. The conferences are covered. Director's coverage is still needed and other companies will be contacted. Grants: One application to Louie Raffloer for the Irish Blacksmiths conference was approved. The information is available on the website. Workshops: Nothing at this time due to insurance problems. A Clay Spencer workshop will be a possibility for the fall. Terry C. will look into this. Club Storage/Trailer: Ken Williams will get the trailer to the Mount Vernon Fairgrounds. Website: The website content will be expanded. Library: A motion was made by Terry C. and 2nd by Alan F. to permanently approve a \$1,000 annual library acquisition fund. The motion passed unanimously. Sound System: A motion was made by Terry C. and 2nd by Laura G. to reimburse Mark Manley for \$50 for the purchase of speaker cables. The motion passed unanimously. Video: Laura has been in contact with Gary (? Last name) about the fall conference. Roster/Mailing list: The list is up to date. Conference Safety Committee: They are working to keep this conference safe and have asked for everyone's help in keeping midnight madness safe. Publications: The following statement was submitted. "The board of directors along with the HIN editor Jerry Kagele have agreed upon the development of a publications committee to insure that the wishes of the membership will be reflected in the HIN publication. The committee members are Al Karg, Jerry Kagele, and Don Kemper". A motion was made by Dave L. and 2nd by Terry C. to accept this statement as written and it passed unanimously. The following proposal was submitted for the committee, "Goal #1: To establish a system for documenting, processing and resolving membership concerns and or complaints in regards to the HIN. Goal #2: To develop a system to determine the needs and wants of the general membership in regards to the HIN (maybe a survey mailer)". A motion was made by Christa F. and 2nd by Laura G. to enact this proposal as written. Five members voted in favor of the proposal and Ken W. abstained. A request was made of committee member Al Karg to submit a copy of the HIN mailing labels to the board for review. Conferences Spring 2003 164 members and a total of 226 attendees for Friday alone. The judges for the tong keeper contest will be: Jerry K., David L., Ina Culberson, and Phyllis Tice. Fall 2003 conference: the organizers (Gary C. and Chad Heiserman) were not present but the president has been informed that the fairgrounds, the demonstrators and caterers have all confirmed their reservations. Spring 2004 conference will possibly be at Enumclaw or another fairgrounds. A motion was made by Ken W. and 2nd by Laura G. to have the spring conference be the 25th anniversary conference. The fall 2004 conference may be at Alan Flashings and he will provide a budget to the board at the next meeting. Old Business Workshop forms are still hung up on insurance problems. Liquidation of archives. Christa F. will talk to Bob Race about mounting some Peter Ross items on boards. All the board members present submitted review forms. There were six items that at least five members suggested liquidating. A motion was made by Alan F. and 2nd by Laura G. to liquidate those items. It passed unanimously. There were another 27 items that more than one board members suggested liquidating and no one suggested keeping. These items will be considered at another time. Christa F. will provide a summary of this information. NWBA brochures: This item was tabled due to insurance problems. Demos: In exchange for storage of the NWBA trailer several NWBA members will be donating demonstration time at the Columbia County Fair July 16-21. New Business NWBA hosting an ABANA conference in 2006/2008. A motion was made by Terry C. and 2nd by Ken W. to express interest in this to the ABANA board. The motion passed with Terry C., Alan F., Dave L. and Ken W. voting yes and Christa F. and Laura G. abstaining. Jerry K. will relay this interest to the ABANA board. Resource Manual: Ina Culberson offered her services as a proofreader on any publications that need it. Meeting adjourned 6:50. Minutes submitted by Christa Fairbrother



Fall Conference 2003 Mt. Vernon, Washington. October 10-12 at the Skagit Fairgrounds. Demonstrators will be Jorgen Harle, Orcas Island, Washington, and Paul Thorne, Anacortes, Washington.

ABANA 2004 Conference is set for Richmond, Kentucky July 7-11, 2004.

The scenic bluegrass campus of Eastern Kentucky University, just down the river from Daniel Boone's home, is the site for the next ABANA Conference. Start making your vacation plans now for a little over a year from now. Richmond is about 45 minutes from Lexington. Conference Chairman Dave Koenig and the ABANA Board are busy planning what will be a memorable event!

The NWBA Board has voted to support an ABANA Conference in Seattle in 2006! The site of the 2006 conference will be selected at the ABANA Board Meeting in Memphis, at the National Metal Museum, in November. The NWBA has two representatives on the ABANA Board of Directors, Jerry Kagele, Board Secretary, and Don Kemper. Check the ABANA website at www.ABANA.org for more details.

Caniron IV is set for Hamilton, Ontario, Canada, July 10-13, 2003. Check out www.caniron.com for details.

Blacksmiths needed to sell at the Western Washington Fair, Puyallup, Washington, September 5-21, 2003. Contact Terry Carson at 253 847-3235 for details.

Grants Galore! The NWBA has grants available for attending blacksmith workshops and classes. Up to \$250 per grant is available. This is like free money! In return you either give a demo of what you've learned or write about it for this stellar publication. Talk to Terry Carson or Gary Chapman for details.

Coote Belt Grinders manufactured by N.E. Coote, 231 Mats View Road, Port Ludlow, Washington 98365, 360 437-0366, coote@olypen.com, for knife people. Wayne Goddard recommended.

Buy a Henrob Torch, Win a Cadillac! Contact Gary Gloyne for details! 530 926-4418. blacksmith@snowcrest.net And be sure to ask about Gary's Creative Financing Program!

Need to Re-Straw Your Mother-in-Laws Broom? Check out www.broomshop.com. Warren Olney at Grants Pass will fix you up. 541 474-3575, brooms@budget.net.

Coal! Wayne Lewis will dump a whole truckload of the finest Pennsylvania or Canadian Coke right in your drive-way! Or, send a truckload over to your boss' house! 360 678-5969, keystone@peoplepc.com.

Old Cedar Forge Workshops are set for October 24-26 for a Basics Workshop; November 14-16 for Intermediate, Tool Making and Joinery. Have the concierge call the lovely Ms. Ina to answer all of your questions at 360 275-6769. The Culberson chateau is located in the rolling, fox-hunting hills of Allyn, Washington at 220 East Cronquist Road. www.oldcedarforge@web-o.net for email and the website is at www.oldcedarforge.com.

Kemper Workshops at Earth, Wind, Fire and Ice Forge: Darryl Nelson Design/Construction Solving Workshop. This will be a workshop to develop a design and solve ensuing construction/joinery details for a small table. Students are encouraged to bring a preliminary design, with ancillary information on space, surroundings, use of table,

etc. Each student will derive their own unique design, develop full-scale details of construction/joinery to build the table. Group solution of these details will be discussed/forged with Darryl's assistance. A chance to put capital letters in Artist Blacksmith. October 24-26.

Berkley Tack Basic Blacksmithing Workshop. October 31-November 2. This will be a basic blacksmithing workshop to get you started right! Beginning with safe shop knowledge, progressing to forges and fire building, expect to learn basic tooling, metallurgy and shop layout. Your hammer techniques at the anvil will grow as you use basic forging skills to produce a number of small items. Workshops run 9 to 6 Friday and Saturday and 9 to noon on Sunday. Fee is \$200 including supplies. Contact Don Kemper, 20100 N.W. 61st Ave., Ridgefield, Washington 98642. Call 360 887-3903 for details.

Red Troll Forge Workshops with Nick Marcelja in Vancouver, Washington include Damascus and blade forging, basic blacksmithing. 360 921-3804, www.redtrollforge.com for info.

Blacksmith Demonstrator at Old Mill Festival at Thompson's Mills near Shedd, Oregon, needed for Saturday, September 20 between 10 and 5. www.bostonmill.org for info or contact Martin Thompson, President, at MThomp9689@aol.com for details.

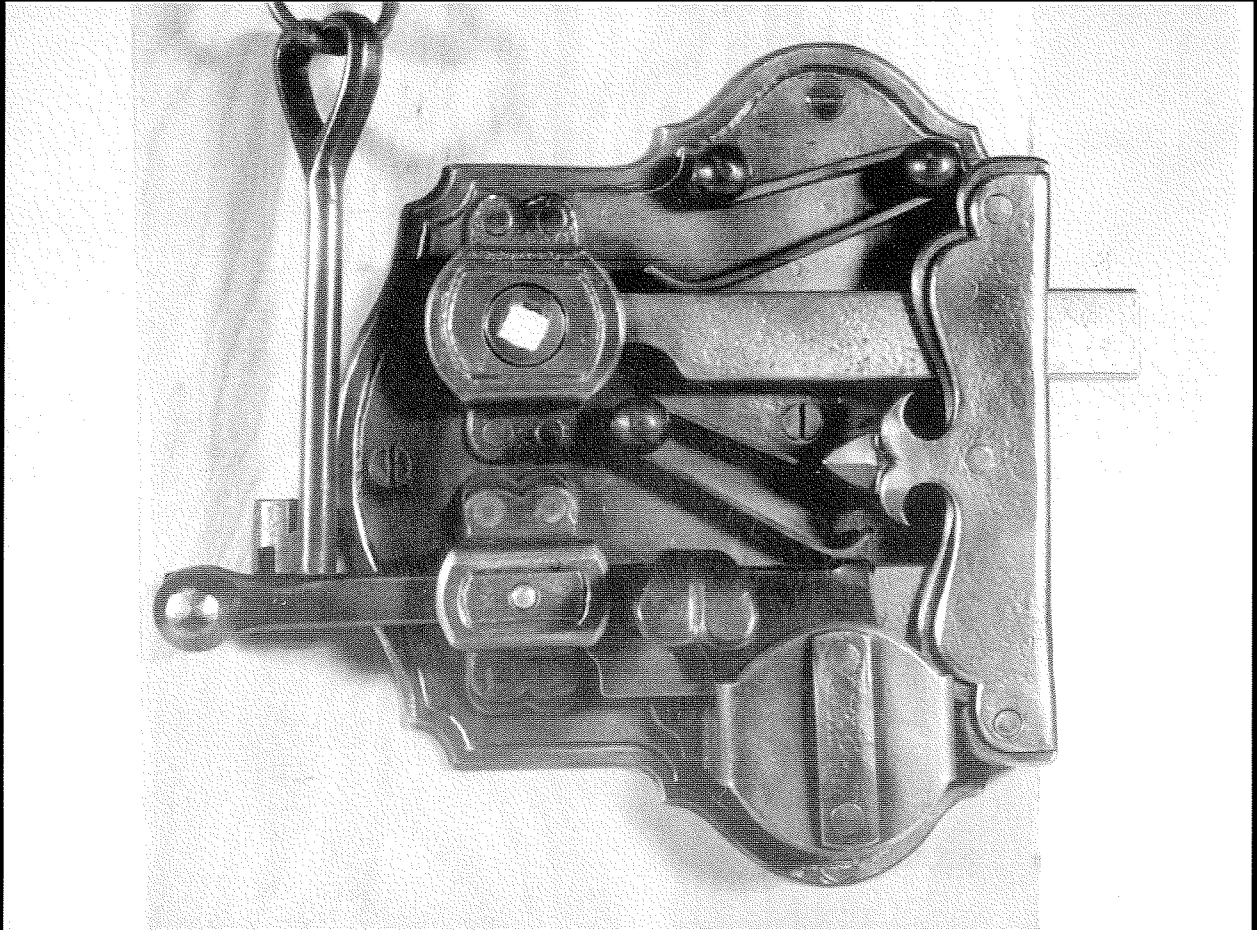
New England School of Metalwork, 2003 Workshop Season has a full schedule. www.newenglandschoolofmetalwork.com (whew!) Also for email: dglaser@newenglandschoolofmetalwork.com. On second thought, screw it.

Got a Hot Tip, article, project photo, picture of your dog Tyge? Wrap it up and send it to the World-Wide Editorial Offices of the Hot Iron News today!

And from the Ken Tice GPS Corner: N48 24.464 W 122 20.414



Dale Johnson Don Quixote



Jeff Holtby

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