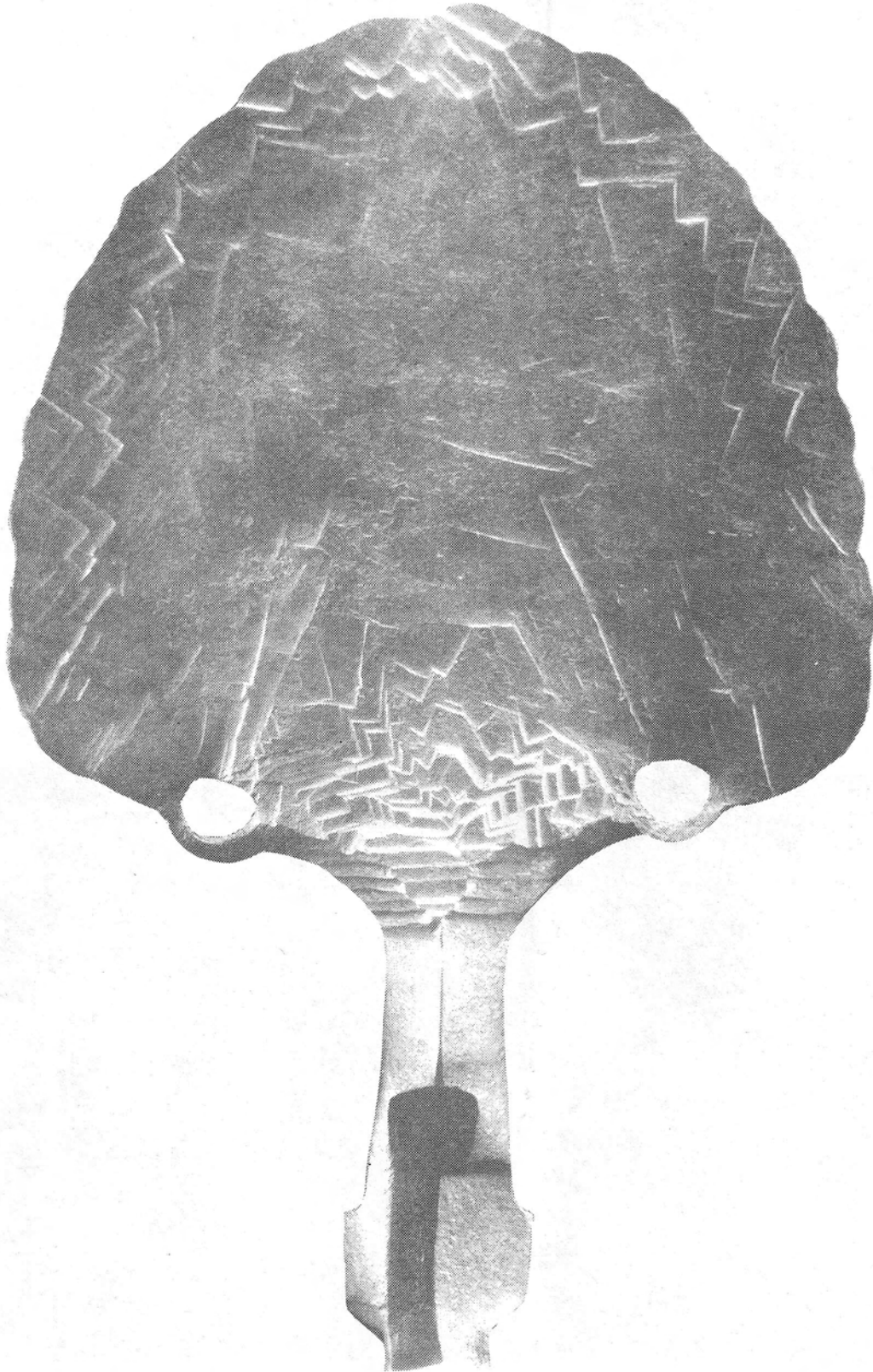


Hot Iron News

January, 1986 -- Voice of the Northwest Blacksmiths Association



"IT" by Russell Jaqua, Scheduled NWBA Demonstrator - 1986 ABANA Conference

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

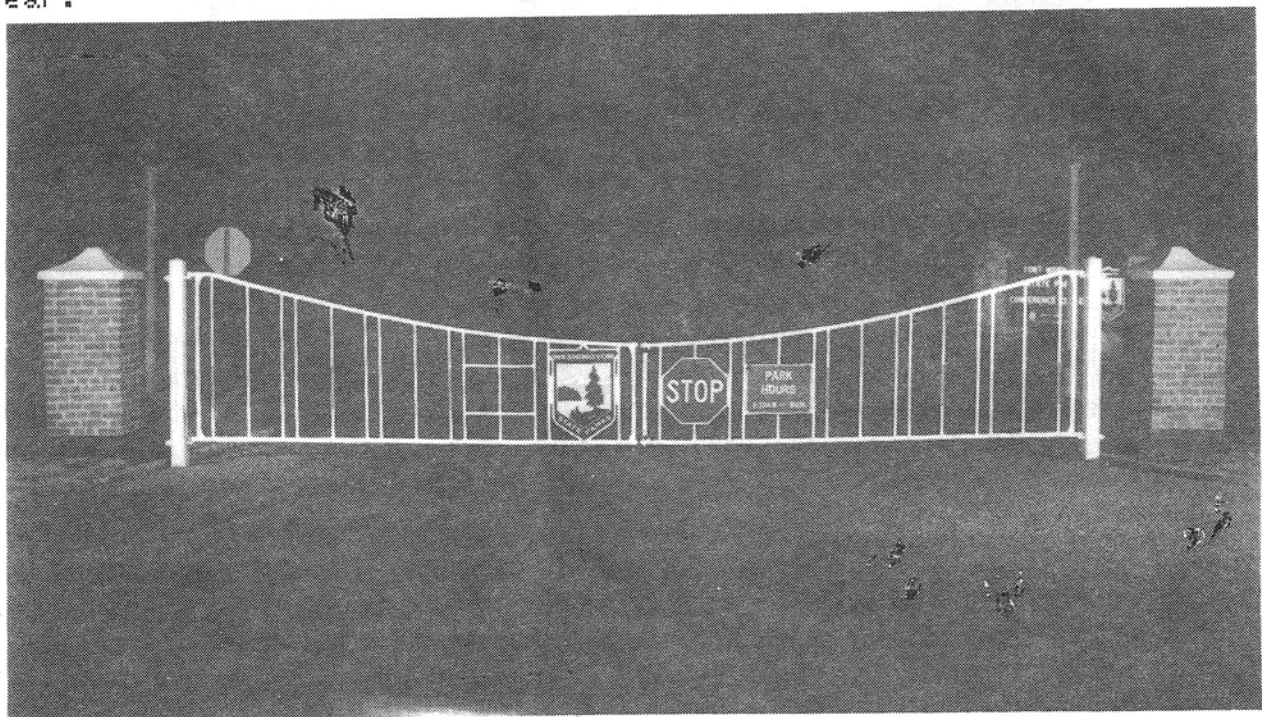
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Classified Ads are free to members.

The Hot Iron News is a quarterly Publication of the Northwest Blacksmiths' Association, a non-Profit organization of amateur and Professional blacksmiths dedicated to sharing ideas and techniques, and increasing the Public's awareness of forged ironwork.

Subscription included with membership in N.W.B.A.. Dues are \$12.00 a year.



FRANCIS WHITAKER GATE WORKSHOP

Spring Gathering

May 2nd, 3rd and 4th. It will be our pleasure to host Peter Ross (blacksmith) and Gary Brumfeild (gunsmith) from Colonial Williamsburg at Old Fort Vancouver.

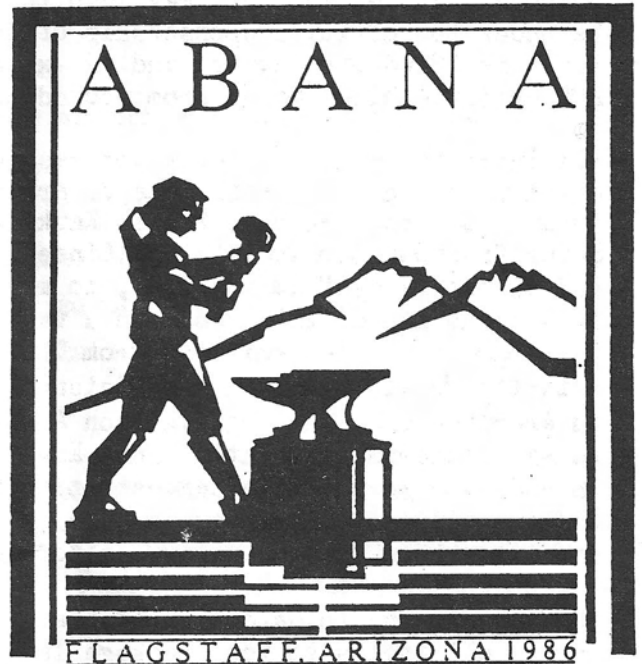
This will be our big spring get-together and we have invited several black powder groups to join us in this mini-rendevous.

Peter Ross will be demonstrating tools used in colonial times including calipers, box joint pliers, trivots, etc..

Gary Brumfeild will be showing us some gun and lock parts hopefully including barrel welding.

Saturdays meal will be a two hog affair with salads and deserts pot-luck as usual.

There is plenty of room to camp for both tents and trailers. This will be a good opprotunity to do some trading so bring extra tools or other items to swap.



ARTIST BLACKSMITHS' ASSOCIATION OF NORTH AMERICA, NATIONAL CONFERENCE - 1986

Northern Arizona University Campus
Flagstaff, Arizona
August 13-17, 1986

Artist blacksmiths from the United States and foreign countries will gather for the premiere exhibit of ironwork and the finest group of artist blacksmith demonstrators available.

ABANA CALENDARS

A.B.A.N.A. Chapters,

Again this year, A.B.A.N.A. has published an official calendar with Blacksmith related photos.

Each chapter will receive 40 calendars unless otherwise requested as per our recent letter to all chapters.

Please understand you are not obligated in any to sell any or all of the calendars. We do this as a service to the A.B.A.N.A. Chapters.

We suggest that a \$4.00 fee be charged for each calendar with proceeds returned to:

A.B.A.N.A. CALENDAR
3646 WEST LAWRENCE LANE
PHOENIX, ARIZONA

85021

Very Best Regards,

Bill Callaway
Bill Callaway
Calendar Chairman

Contact Jack Slack or Daryl Nelson

THE FIRST WORLD CONGRESS OF ARTISTIC SMITHS is to be held in Aachen, West Germany from May 12th to 17th. The Congress will be under the official sponsorship of the Aachen Chamber of Artisans (Handwerkskammer) and is expected to attract approx. 400 artistic blacksmiths from around the world.



All indications are that the Congress will be a significant development in the renaissance of artistic blacksmithing. Around 20 demonstrators, Moisio Kauko from Finland, Walter Suter from Switzerland, Lo van Linden from the Netherlands, and Albert Paley from the U.S., to mention a few. Specialists in various fields will speak on a variety of topics: The Development of Blacksmithing From The Past To The Present, Artistic Metal Formation, The Science of Metals, Casting Metals, Artistic Metal Smithing As Architecture, The Organization And Function Of The Chamber of Artisans. There will be simultaneous translation into English and French for non-German speaking participants. In addition to a public demonstration of smithing in front of Aachen Town Hall there will be visits to local museums in the area. Manufacturers of blacksmithing equipment and literature are being invited to exhibit their wares.

ABANA is trying to determine if there is enough interest on the part of the membership for an all inclusive tour package leaving New York on May 8th and returning from Amsterdam, Holland on May 19th. In addition to the Congress other points of interest to blacksmiths and their wives will be included. The tour package will consist of air transportation, hotels, meals, bus transportation in Europe and Congress fees, but no gratuities. Dimitri Gerakaris will be invited to lead the tour. There must be a minimum of 30 participants. This will be a no frills tour utilizing moderately priced accommodations and transportation. To secure these facilities early reservations must be made. Preliminary inquiries point to a cost of \$1000 but is not yet guaranteed and is based on the current rate of exchange. Those who wish to extend their stay, on their own, will have a choice of returning on May 26, June 2, 4, 9, 11, 16th or 18th.

If there are more potential participants than can be accommodated it will be on the basis of first come first served. If you would like to write directly to the Handwerkskammer the address is: Handwerkskammer Aachen; Sandkaulbach 21; 5100 Aachen, West Germany. Be sure to include an International Postal Reply coupon available at the local post office for 65 cents. Their full program should be available in near future.

If you are seriously interested in attending the First World Congress in Aachen please take a few minutes to fill out the questionnaire below and return it with your dues a.s.a.p..

Name _____ Address _____ Tel. _____

I would like more information on the ABANA tour as outlined above.

I prefer making my own travel arrangements but would like information on low cost air transportation to Europe from _____.

I would like to participate in a more extensive tour for blacksmith costing, \$1500 _____, \$2000 _____, \$2500 _____. My budget limit for any tour is \$ _____.

In my opinion an ABANA blacksmith tour of Europe should also include a visit to _____.

SCROLLS AND SCROLLWORK

INTRODUCTION

The following is a collection of ideas that have been around ever since man first bent a piece of iron onto a shape that fancied his imagination. The following ideas are not of my own origin or of all my own creation. I would like at this point call attention to a couple of blacksmiths of whom I have learned a great deal about scrollwork. First is Beau Hickory-The Scrollman par Excellence, and the second is Francis Whitaker-The Master. I have acquired an ennumerable amount of information from many other people, too many to mention here.

STYLES

First question that pops into our inquisitive little brains is, "What is a scroll?". A scroll is a mathematical figure that conforms to strict geometrical guidelines. (Fig 1A) If this does not happen, then you have only a piece of twisted-up and bent metal. In which case the scroll is wrong and the customer is right. "Yep!", they're right. For how many times have we heard them say that they want them there curly-Q's on their ironwork.. And that is just what they are is curly-Q's. Then again, when I think of a curly Q, I think of a pig's tail, and I have seen very few works of art on the hind end of a pig. (Fig 2) The most commonly used figure for scrolls is the volute, and also used is the spiral. The French ironwork makes a lot of use of the volute. (Fig 3) This style of scroll makes one and one half revolutions from its start to its termination. The space between the ironwork itself is referred to as the negative space and this space must be continually getting larger. If the space were to stay constant, then you would not have a volute, but rather a spiral. The spiral is used extensively in Spanish style ironwork. (Fig 4) You will commonly see both styles of ironwork readily visible in this country. The third style is what I refer to as the Victorian scroll. This scroll still has a continually increasing negative space but it only makes one revolution in 360° . Therefore making it a very hard scroll to form on a scrolling iron. (This will be explained in the next issue.) (Fig 5)

TYPES

Types of scrolls is what styles of scrollwork is made up of. There are three basic types of scrolls: the 'C' scroll, the 'Double C' scroll and the 'S' scroll. The simplest is the 'C' scroll. It usually makes only one curve in a single direction and is contained in one plane, when viewed from the side. (Fig 6) The 'C' scroll is the basis for most scrollwork and the other scrolls too. The second is the 'Double C' scroll. (Fig 7) The double C is basically two 'C' scrolls that are mirror images of one side to the other. Many times two 'C' scrolls are put end to end and are confused with a double 'C' scroll. For it to be a true double 'C', one half has to be an exact mirror image of the other side. Another of the mis-called scrolls is the 'S' scroll. As before, a lot of times, two 'C' scrolls are put end to end with one facing 180° to the other and are called 'S' scrolls. For it to be a true 'S' scroll it too has to conform to a particular mathematical formula.

con't

con't

To properly draw a "S" scroll see (Fig 8). As previously mentioned ,a lot of times two 'C' scrolls are called an 'S' scroll. (Fig 9) One other important fact to note is that for the negative space to be continually getting larger, then the metal itself must be tapered. A lot of so-called scrolls have flat ends that are placed between two pieces of metal to aid in starting the scroll. These are not scrolls,rather a warped piece of semi-ruined metal metal from a like maker. (Fig 10)

DESIGNS

Proper style is important but not as important as the designing of the entire piece. Though,designing is most often neglected, yet,it's the most important aspect of all,for if the piece is very obvious in its installed place, then the design was wrong.The piece should fit in and blend with its surroundings. If the piece has a single flowing design to it, this is commonly refered to as a floral design. (Fig 11) A floral design has a beginning and an ending place that're obvious within the design itself. If the same design is repeated as a mirror image on the other side then a design in this case is no longer floral, but becomes semi or half-symmetrical.(Fig 12) Gates are usually done in this style of designing. Half symmetrical can be symmetrical from the top to the bottom or from the left to the right. If the design were to be mirror images from the top to the bottom and at the same time from left to right, then the design would be full symmetrical. (Fig 13) Many traditional panels and window guards are a good example of this.When one scroll comes off another then they must conform to the rules of Mother Nature and therefore never come off at an unorthodox angle.(Fig14) All things in nature seem to conform to what artists refer to as the Golden Mean or the Curve of Beauty.(Fig 15) The only scroll that does not conform, for there has to be an exception to every rule, is the Peacock scroll. This is a scroll that has three or more 'C' scrolls going in the same direction off the same scroll.(Fig 16) Usually when this scroll is used the 'C' scrolls are either diminishing or enlarging in size off the parent scroll. Then again there are some instances that the small 'C' scrolls all stay the same size.(Fig 17) Too many smiths are more worried about how they made the project rather than how it looks after it's intalled. So, now is a good time to start thinking about the design before you start making it. For if every time the owner of the piece walks in and sees that particular piece sticking out like a sore thumb, then he will always know who made that sore thumb and will most likely remember you for the bad rather than the good. And, I have never seen a good sore thumb.

Next issue will have an article on the , "Making of Scrolling Tools" and "The Forging of Scrolls".

Michael W Chisham



FIG 1A



FIG 1B

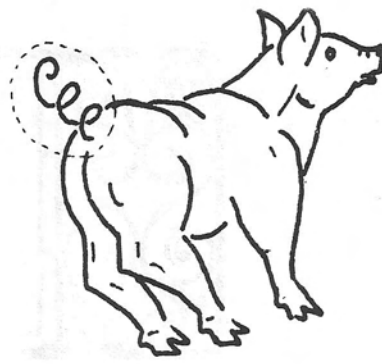


FIG 2

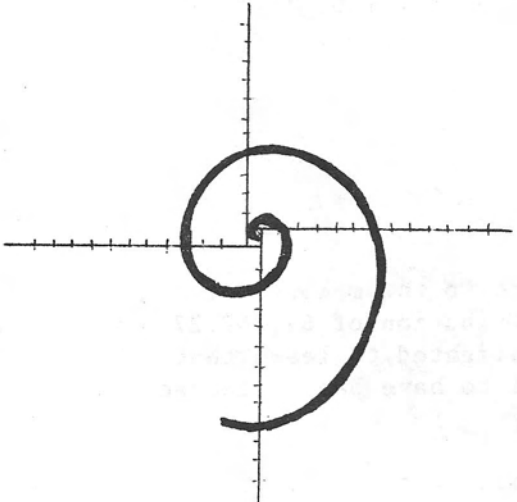


FIG 3

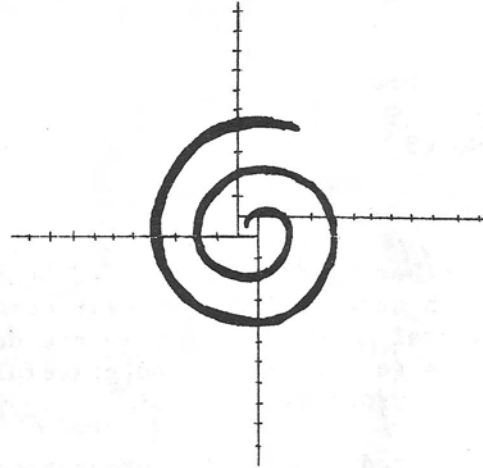


FIG 4

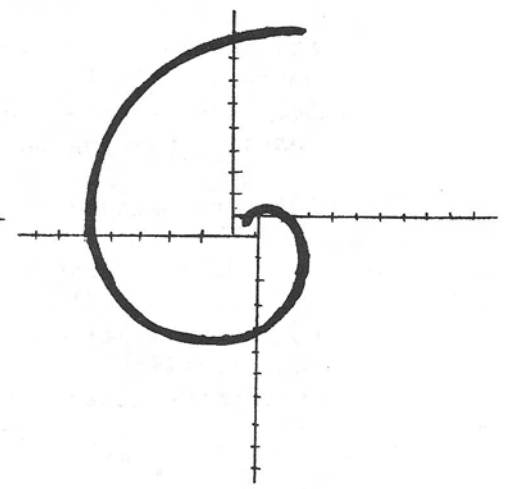


FIG 5



FIG 6

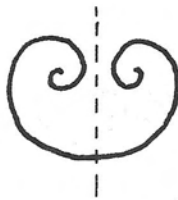


FIG 7

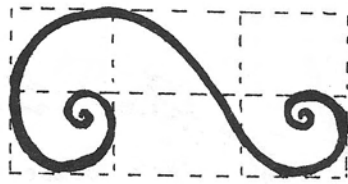


FIG 8

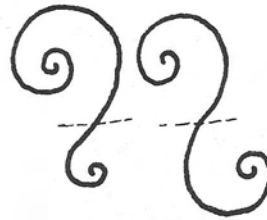


FIG 9



FIG 10



FIG 11



FIG 12

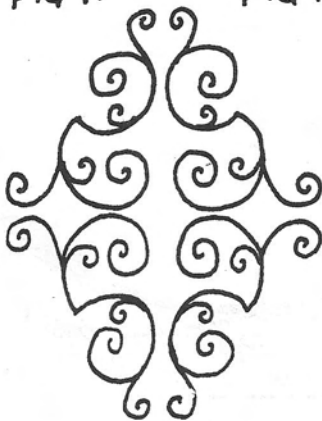


FIG 13



FIG 15



FIG 14



FIG 16



FIG 17



November 6, 1985

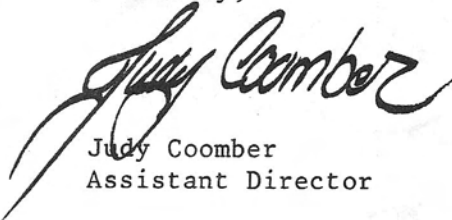
Mr. Howard A. Swanson
Northwest Blacksmith Association
5800 17th Avenue South
Seattle, Washington 98108

Dear Mr. Swanson,

Please convey the thanks of our staff and Board to the members of the Northwest Blacksmith Association for their contribution of \$1,367.27 to the National Ornamental Metal Museum. We are delighted to learn that your benefit auction was so successful and grateful to have been selected to receive a part of the proceeds.

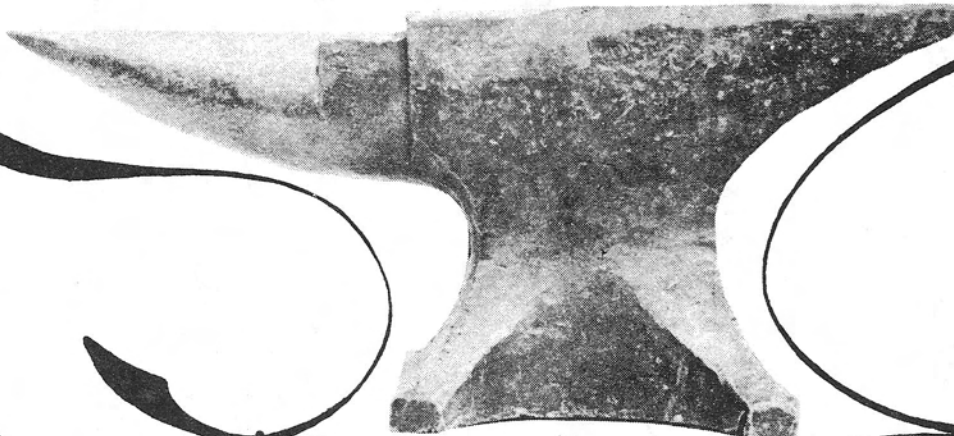
As a publicly supported, non-profit organization, the Museum is recognized by the Internal Revenue Service under Section 501 (c) (3). As such, all contributions are tax deductible to the extent provided by law. Please keep this acknowledgement for your records.

Sincerely,



Judy Coomber
Assistant Director

A Decade of American Blacksmithing



National Ornamental Metal Museum - Memphis, Tennessee

(901) 774-6380



SAMUEL YELLIN FOUNDATION

Nov 25, 85

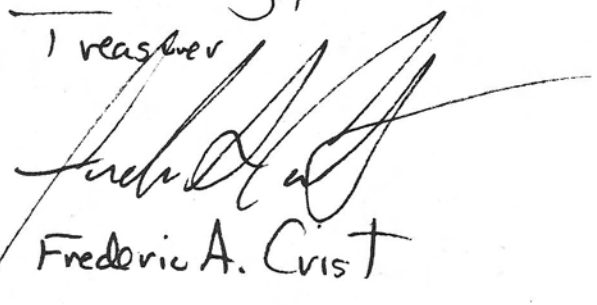
Dear Howard Swanson,

I am sorry there has been such a delay in my response, I'm so busy I'm running about a month behind. The Yellin Foundation thanks you for your very generous donation from the Northwest Blacksmiths Ass.. It will be extremely helpful in the preservation of the spirit of Samuel Yellin through the iron work and workshop programs.

I will keep you informed of our progress, as time goes on. Please thank all the members of the Northwest Blacksmiths Ass. for me.

Many Thanks
Sincerely,

Frederic A. Crist



Frederic A. Crist

Installation

by Dave Thompson & Eric Ziner

The job was installing a spiral stair rail in a castle being built in Creswell.

I wrote down the general procedures, too bad I didn't get any pictures of all the vise-grips we used, but we had all of 'em. The pickets and rails were made in the shop..

Started Monday, loaded most all probable tools to castle. Forge set-up, fuel, anvils, saws, grinders clamps, fasteners, set tools, hammers, cutoff wheels, rails, pickets, drops, welder, gas bottles, hoses, air tank, levels, ext. cords, drill motors, wire wheels, and a good deal more clutter and the like.

The first floor rail went up tile treads, attaching to a center beam on the second floor. Operation goes like such, first lay pre-bent flat handrail on stairs, bend in more or less twist with wrenches & cheater bars, smooth all kinks and waves on anvil, carry up, clamp in three point stand, thats one picket in middle and one on the top and bottom. The ends have to line up at predetermined heights, the pickets fit into pockets held in place by lag bolts.

These pockets were placed over the tracing made when the rail lay on the stair treads to begin with. Once the 3 point support was plumb and braced, we could then measure and cut whatever excess height on the few tickets that were to long. We had to tighten the radius a little so they would be plumb and in the boot scuff of the tread (minus 6 in.) Clamp the whole deal together with vise-grips and mark each hole. Unclamp and bring downstairs to be drilled, the top and bottom at right heights to take a weld and twist for handrail back to center wall beam. Cut off excess in banbsaw, drill, bring upstairs, clamp, put in 3/8 bolts for temporary rivets, and begin to rivet. The old torchable vise-grips clamped picket to rail, drift used to center holes, 3/8 drill bit short, through both holes, place rivet, heat with rosebud, back up with 12 lb. square head hammer, set rivet with 4 hammer blows, reheat set again with top tool. Move up one tread and do it all over again till top, grind, weld, grind, sand scale, peen, brush, wax and clean up. A flight a day give or take, with most of the shop under our feet, it was aspiraling climax, and a good thing we started on the bottom, we were pretty sore legged on friday.

ORDER FORM

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52.	WROUGHT IRONWORK FOR HOUSE AND GARDEN	Batacchi (German title & text)	\$29.00

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Add \$1.35 for the first book and \$.45 for each additional book for postage.

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28.	DAS EISENWERK	42.	SCHONE ALTE WIRTSCHAUSSCHILDER
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30.	GITTER UND TORE	46.	WERK UND WERKZEUG DES KUNSTSCHMIEDES
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33.	SCHUSSEL UND SCHLOSS	52.	SCHMIDEEISEN FUR HAUS UND GARTEN

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SEND ORDER AND REMITTANCE TO: NORMAN A. LARSON, 5426 HWY 246, LOMPOC, CA 93436

AN INVITATION

I would like to personally invite each and every person interested in blacksmithing to attend the 1986 ABANA Conference, August 13 thru August 17, in Flagstaff, Arizona.

The Conference will be held on the campus of Northern Arizona University.

Only 60 minutes away from the Grand Canyon and many other attractions in the area, Flagstaff, at an elevation of 7,500 feet, has August daytime temperatures averaging 80° to 85°, with occasional showers and cool nights.

We have an outstanding lineup of demonstrators from the United States and five foreign countries.

Your conference publicity packet will be mailed soon, so make your plans early to vacation and attend the Conference.

See ya there,
Bill Callaway
Conference Chairman

DEMONSTRATORS

Smokey Adams
Keith Austin
Cathy Borthwick
Mike Chisham
Eric Clausen
Bill Fiorini
Jeff Funk
Toby Hickman
Russell Jaqua
Art Jones

Claudia McCue
Tom McLane
Judd Nelson
Ron Smith
Dorothy Stiegler
Russ Swider
Dave Thompson
Jim Wallace
Bob Walsch
Barry Wheeler

FOREIGN DEMONSTRATORS

The Angel Brothers-Mexico
Guy Bell-Canada
Renato Ferrari-Italy
Vaclav Jaros-Czechoslovakia
David Quinnell-England

SLIDE AND FILM

PRESENTATIONS BY:
Art Adams
Mike & Steve Bondi
Dan Dole
Albert Paley
Wally Yater

REGISTRATION FEES:

Early Registration (participant)	\$110.00
After June 30	\$130.00
Early Registration (spouse)	\$ 75.00
After June 30	\$ 95.00

MEALS AND LODGING

Early - per person	\$110.00
After June 30 - per person	\$115.00

Daily registration fee of \$45.00 will include three meals and demonstration privileges

All accommodations are double occupancy

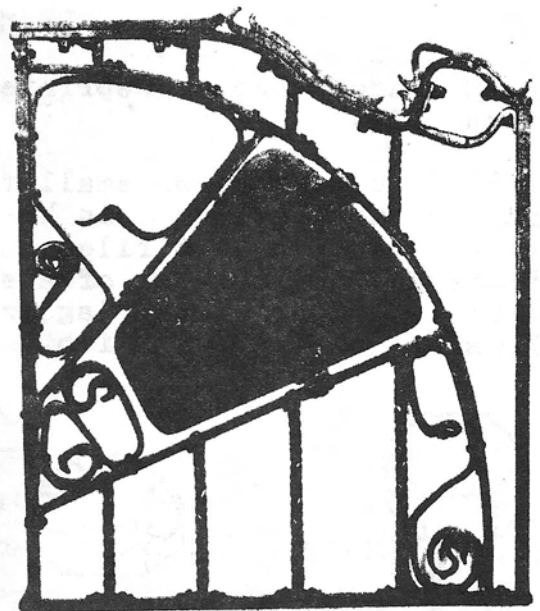
Meals as follows:

- Aug. 13 - dinner only
- Aug. 14, 15, 16 - three meals per day
- Aug. 17 - breakfast only

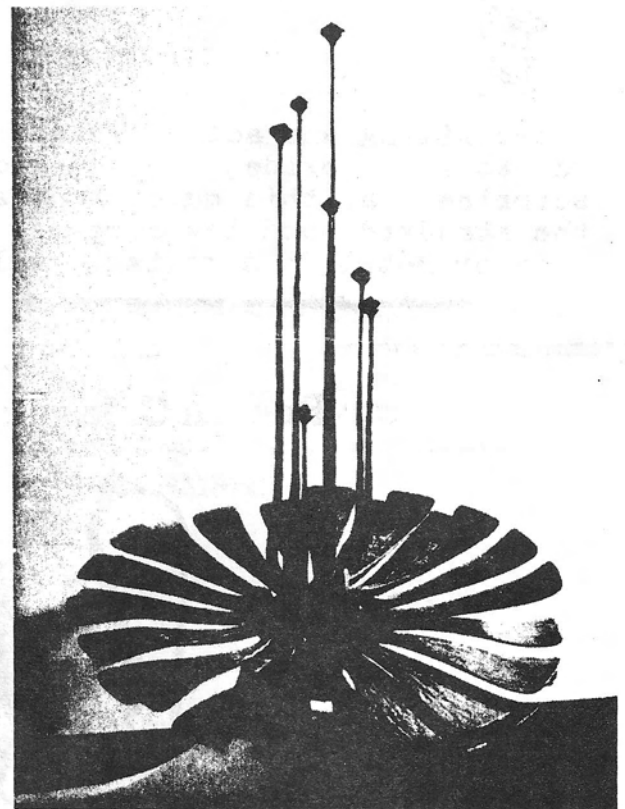
For more information regarding the 1986 International ABANA Conference, Contact:

Bill Callaway
Conference Chairman
3646 W. Lawrence Lane
Phoenix, AZ 85021

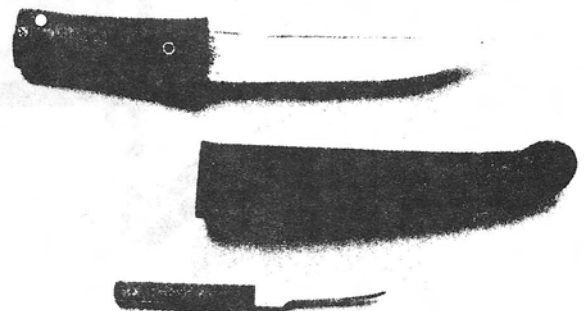
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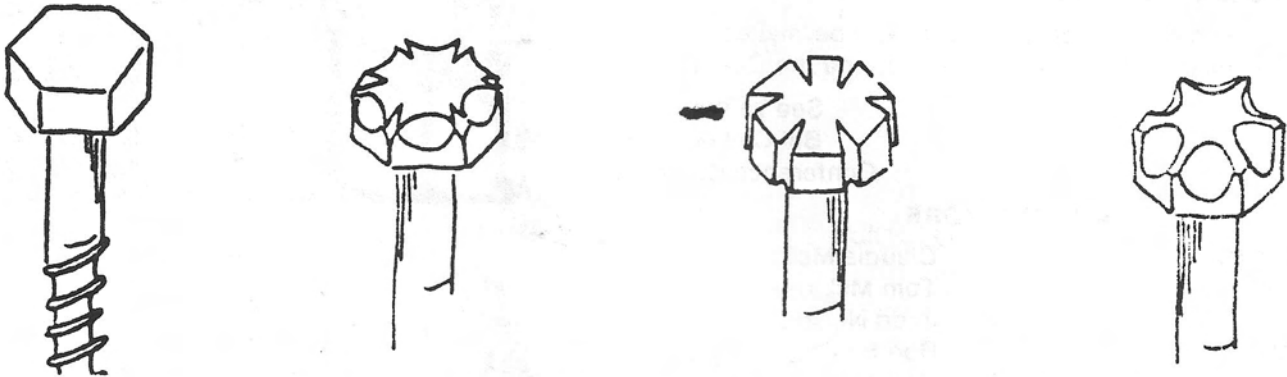


Tom McLane

ORNAMENTAL SCREW HEADS

(By Rolando DeLeon, Reprinted from "The Anvil's Ring", Vol. 7, Nr. 1, March 1979)

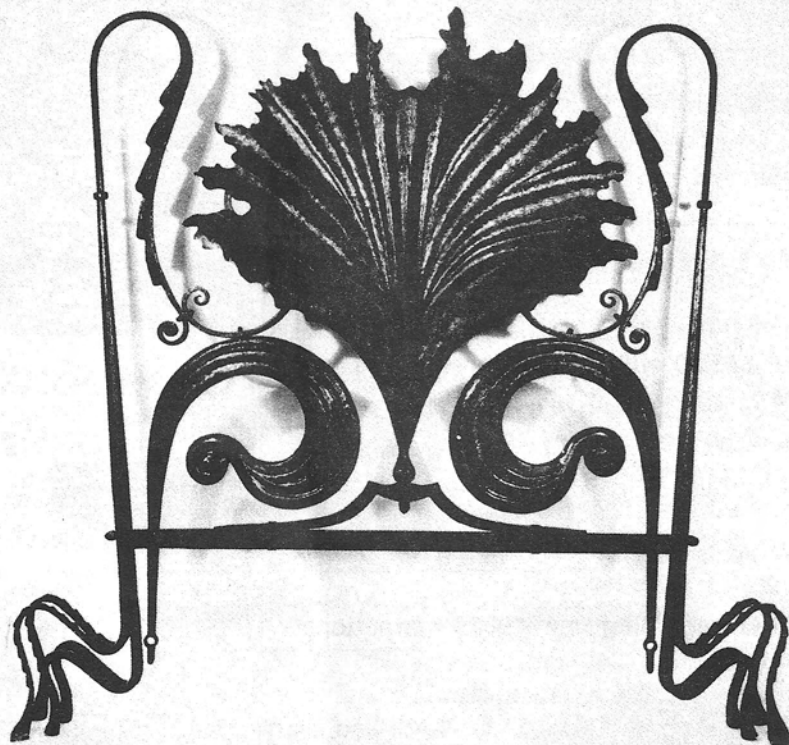
With the use of a few small files; rounds, triangles, etc., some very interesting effects can be achieved with the standard hex head lag screw. The use of files does not damage or distort the hex shape of the heads, so the use of a socket wrench to drive screws in is still possible. Zinc coated lags should be placed in muriatic acid to remove the zinc coating. As with most chemicals, care should be taken.



After filing and acid treatment, run lags through forge fire or torch to achieve oxide scale, and wax while still hot. You will be surprised at this quick and easy way of obtaining a "worked" look to the standard wood lag screws. Try on other different types of screws, wood or metal, and bolts as well.

Russell C. Jaqua

*Resident metalsmith at Centrum Foundation.
Owner-operator of Nimba Forge.*



"Kelp Bed"

S-2 Chisel Blanks - 3/4" octagon by
8" long - \$ 2.00 each.
Contact Fire Mtn. Forge
1-206-832-6280
Rt. 2, Box 292-C
Eatonville, Wa. 98328

Scott Taylor
50# Trip Hammer
May 8, 1917
Phone: Work 762-3210
Home 939-4642
\$500.00

200# Chambersburg Self Contained Air
Hammer in very good condition. Spare
motor available. \$8500. or best offer.
Vic - 623-4085

Safety Glasses:
Welding and Grinding protection glasses -
lenses - safety frames. Dididium - yellow-
brown-gray.
Call for price quotes.
Richard M. Kenyon
503-824-6961 - after 5 & weekends

Miles-Bemis Air hammer
800 to 1,000 lbs. contact:
Russ Svaren 11182 S.E. Tyler Rd.
Portland, Ore. 97266

Lost at Timberline
1 pair square jaw tongs
Stamped Jim Wallace & Phil Baldwin
Please return to Phil Baldwin
3623 12 ave. W.
Seattle Wn. 98119

FOR SALE
50 # Little Giant, w/ motor
'works perfectly' - price negotiable
Larry Taylor
1106 Dundee St, Boise ID 83706
(208) 383-2461 (work)
(208) 342-3857 (home)

50# Little Giant w/o motor.
Chuck Lund - 851-8702

FOR SALE: 50lb LITTLE GIANT HAMMER, OVERHAULED AND PAINTED \$850.00
GEORGE ROLSTAD 763-9492 (SEATTLE)

NOTICE: THOSE INTERESTED IN THE ENGLISH TOOL BUY LISTED IN THE LAST ISSUE,
PLEASE CONTACT TOM GRAHAM 206-523-5334.

NORTHWEST BLACKSMITHS ASSOCIATION
PO BOX 81041 SEATTLE WA 98109

MEMBERSHIP APPLICATION: New ! ! Renewal ! ! Correction ! !

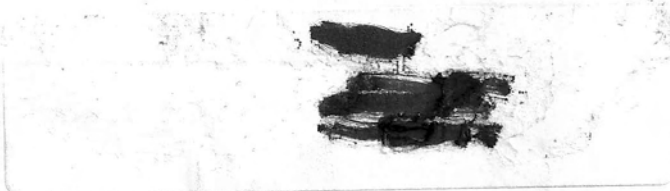
Name _____ Date _____

Address _____

City _____ State _____ Zip _____

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

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



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

WV



CALENDAR OF EVENTS

SPRING GATHERING
May 2nd, 3rd & 4th
Old Fort Vancouver
Vancouver, WA

ABANA CONFERENCE
August 13 - 17
Flagstaff, Arizona

