



Sofa Sounds

Southern Ohio Forge & Anvil

VOL 94-6

NOV/DEC 1994

MARK YOUR CALENDAR: Note the location change. Unless otherwise noted, all meetings will be held at the SOFA Blacksmith building on the Miami County Fairgrounds in Troy, OH. Donations of items to support the newsletter are always welcome. Finger food and cold drinks provided on a break even, honor donation basis. The forges are available before and after the meeting for individual projects. Bring and wear safety glasses.

Demonstrations are open to the public and are at no charge. Meetings start at 1:00 PM.

Upcoming Events



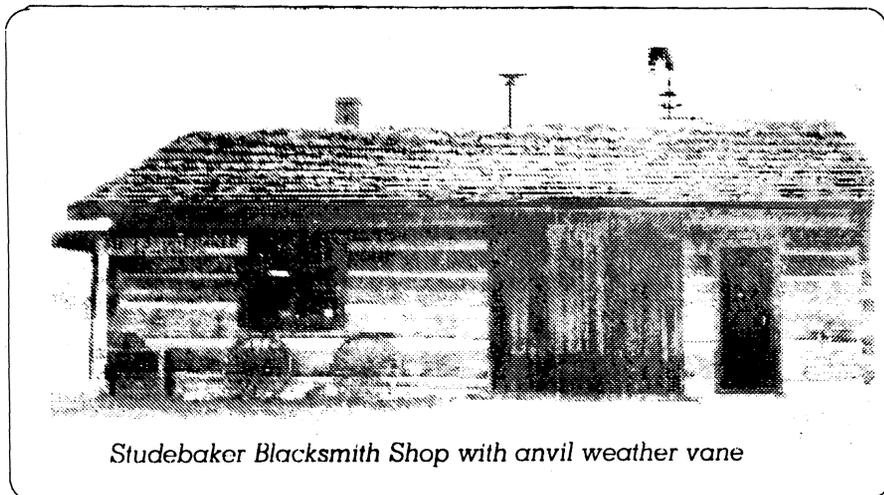
7 Jan 1995	Miami County Fairgrounds Troy OH, SOFA Blacksmith Shop	Hank Steinmetz Subject: TBD
4 Feb 1995	Miami County Fairgrounds Troy OH, SOFA Blacksmith Shop	Ron Thompson Subject: TBD
4 Mar 1995	Miami County Fairgrounds Troy OH, SOFA Blacksmith Shop	Larry Gindlesperger Subject: TBD
1 Apr 1995	Miami County Fairgrounds Troy OH, SOFA Blacksmith Shop	Volunteer needed Subject: TBD
6 May 1995	Miami County Fairgrounds Troy OH, SOFA Blacksmith Shop	Volunteer needed Subject: TBD

Southern Ohio Forge & Anvil

CLUB NEWS



Emmert Studebaker has written asking for information. Quoting from his letter, "Quite a number of years ago one or two members of our SOFA organization made an anvil of copper and mounted it on the roof of the blacksmith shop. They used a slender rod that penetrated the roof to support it. I have lost the names and addresses of these men and want very much to contact them. Many people have asked questions about the anvil on the roof. Many comments have been made." Please contact Emmert at 6555 South State Route 202, Tipp City, OH 45371-9444. (513) 667-2441 if you have any information. It would be very much appreciated.

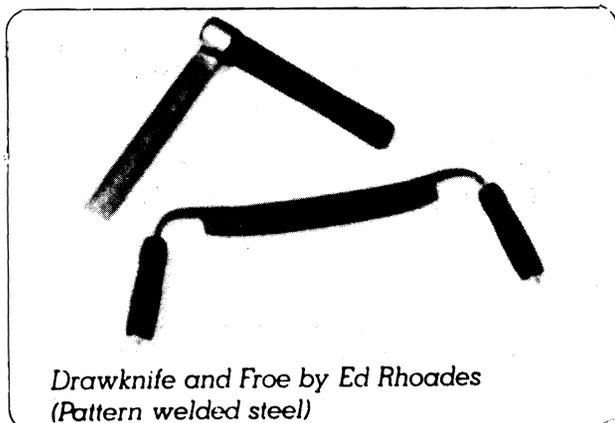


Studebaker Blacksmith Shop with anvil weather vane

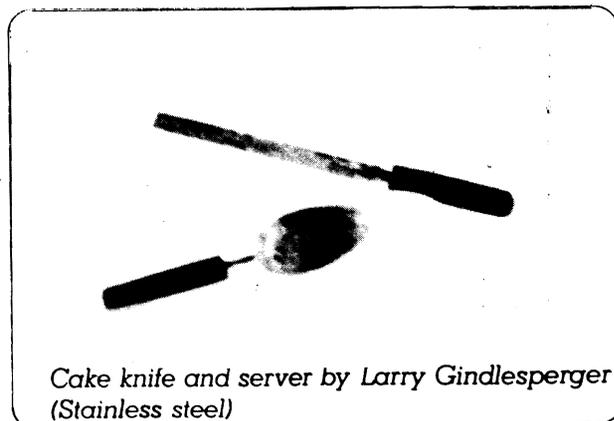
This was **Ken Scharabok's** last meeting with us on a regular basis, he is moving to Waverly, TN to be a cattle farmer. Thanks Ken for your enthusiastic support and work over the years. You have made a good difference! We have all enjoyed your demonstrations, newsletters and QUAD state leadership. Ken has always been willing to help and we wish you much satisfaction in this pursuit.



Ken Scharabok



*Drawknife and Froe by Ed Rhoades
(Pattern welded steel)*



*Cake knife and server by Larry Gindlesperger
(Stainless steel)*

Southern Ohio Forge & Anvil

November Demonstrator



Ron Thompson whistled the meeting to order, prayer by **Keith Sommers**. The pictures and notes for this month were taken by **Brad Cramer**. It was announced that sealing of the cement floors in the SOFA building will take place this week. **Larry Wood** will fix up the display panels for hanging on the walls.

Demonstrator: **Hans Peot** on **TOOL MAKING FROM SCRAP STEEL**

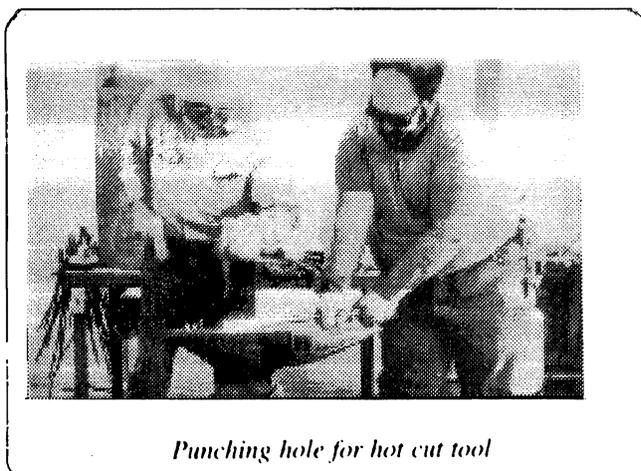


Hans with hardy tool from a truck spring

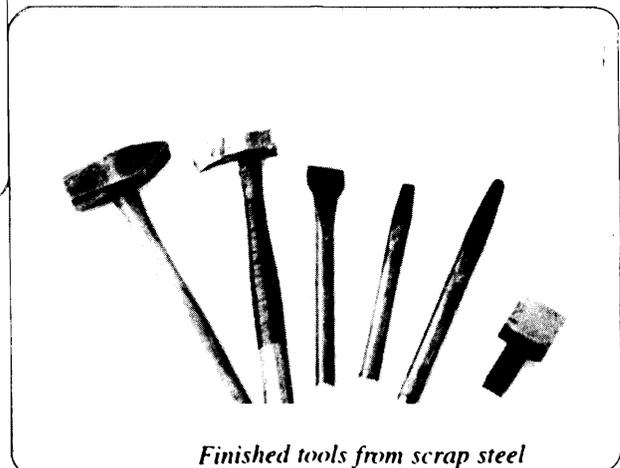
Some of Hans' work practices include the use of quenching oil for all but carbon steel and use water on that. This minimizes cracks when working with unknown steels. This is also safer than using other quench mediums as it is nontoxic and has a high flash point. Chisels, punches and similar hot working tools are made from torsion springs (Chrysler's products, see the December section for more information) these steels do not need to be rehardened and are good for making cuts in red hot

iron.

Hans also demonstrated colors to look for when drawing the temper on high carbon steel. The desired end point is Straw Yellow to cut steel and Peacock Blue to cut wood.



Punching hole for hot cut tool



Finished tools from scrap steel

WANT TO MAKE AN IRON SNAIL?

During the 94 Perth Royal Show a fellow stopped, introduced himself to us, said he was a blacksmith on holidays from the U.K. and volunteered to show us how to make a snail.

We gratefully handed him the tools and let him have a go.

He made his from 3/8 round but they can be made from any size.

He began by drawing out one end from a point for about three inches, then he hammered it around into a tight circle with the point naturally in the centre and slightly raised.

After he finished the shell he brought the metal back to the heel, then doubled it back to go forward again, he flattened the portion intending to be the foot, then to consolidate the fold in the heel, he fire welded it then drew it out to form a point.

He ran the flattened metal for the foot underneath the shell leaving sufficient length to form the neck and a pair of eyes/feelers/sensors, whatever they are, curved it up and cut it off.

To help form the eyes, he hammered the head end on the anvil until the metal was thinner then he split it. Each eye was then carefully drawn out and formed.

That's it. His snail was a realistic masterpiece. He did not attempt any elaborate finishing techniques other than hot brushing because it looked better left natural. Snails are rather earthy critters after all.

I always thought the direction of the spiral of a nail's shell depended on which side of the equator they were on, like water spiralling down a drain, but I have it on good authority that it actually depends on the variety of snail. So there.

I lost track of my camera for a while so had to resort to pencil and paper.



Blacksmiths
Association
of Western
Australia
- Nov 94 -

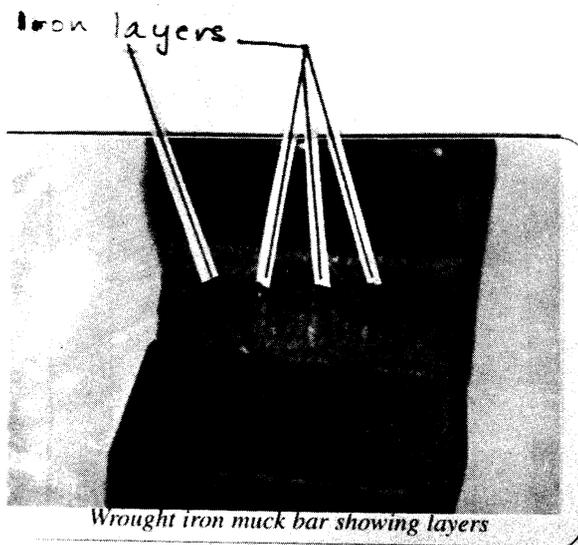
L. Mazzoni '94

A FAIR RETURN FOR ONE'S WORK

Adapted from American Machinist Magazine, May 7, 1931 through the Machinist's Bedside Reader, Vol 1, p. 179. I've also added a few myself to this list, R. Kern.

- 1 Don't forget that your best insurance against a job done at a loss is the time and expense taken to make a thorough and accurate estimate.
- 2 Don't forget to consider and allow for designing time; your customer's job may require more of that than he (or you) realizes.
- 3 Don't waste time and money on a customer who will not allow you a profit.
- 4 Cut him out entirely.
- 4 Don't forget that some firms and people fail and don't pay their bills. Some never intend to pay in the first place. A sure way to get rid of the second type, and a good policy in any case, is to get some money up front. Make this an iron clad rule and you will save yourself some losses and much aggravation.
- 5 Don't expect to get every job you bid on. A lot of business is not worth having. If you get every job you bid on, you are probably bidding too low. A rule of thumb is greater than 20% and less than 80% wins puts you in the ballpark related to your competition and compensation.
- 6 If you are asked to forge an object for some purpose and to price it as cheaply as possible, remember that the only chance you have to get paid for your time and effort is when you sell the object. If you sell your work at the lowest possible price, you do not see your skills in the same light as those who have asked you to create the object. The question is value, where is the customer is relation to your talents?
- 7 Any time somebody introduces their job with the phrase "all you've got to do is ..." you can be pretty sure you are about to be stung! It will probably turn out to be the classic 5-minute job that takes an hour. And if it does, and if you get paid for 5 minutes work, you have been stung, well and truly, have you not?
- 8 Also: if you do a job for somebody for less than it's worth, you are subsidizing him. If you choose to do that, that's up to you. If he expects you to do that, show him the door. Retain your free agency!
- 9 If you're not making money at it, you might as well be doing something for yourself.... Think about that one the next time there is something you want to work at for yourself and John Jakeson asks you to make up some small item for his \$80,000 motor home. Better still, think about it before John comes along. Do you want to spend your time on his hobby or yours? (I have a feeling that the this may sound terribly selfish to some guys who read it. I've got nothing against doing the other guy a favor, but if it gets to be a one way street, I can lose interest awfully fast).
- 10 If somebody asks you if you could do a job tell him to bring it around to your shop and you'll take a look at it. If he is willing to do that, you may have a paying customer on your hands. Never offer to drop around and have a look at the job at his place. If he is not interested enough to bring his work to you, he's not very interested. This is a tactic that took me a long while to tumble to, but I have found it to be a good measure of the prospect. It applies most strongly to the "new customer". If you have done business with the buy before, and figure the possibilities are good, then it may not be out of place to go see the job at his place. Think about it: when you want something done, do you not take it to the guy who you want to do it, or expect to pay him for coming around to your place to give you a quote?
- 11 Michaelangelo, who was a pretty fair hand with a cold chisel, apparently said: "I finally realized the world would have paid me anything I had asked....if only I had asked." Put your own price on your work. If it's a fair price, it'll be paid. If it's too high, you'll starve and lower your prices. If the customer is too cheap to pay a fair price, spend the time doing something for yourself. Which goes right back to the first point - if he won't allow you to do it, show him the door.
- 12 Make it a monthly practice to give a generous break on materials and/or labor to a customer. At job pick up time or final billing let them know about it, this generates good will, retains customers, generates new business - more than you give away. It works!

Southern Ohio Forge & Anvil



WORKING MEDIA

- **Prior to 1920**
 - **Wrought Iron**
 - » 4000 years old
 - » small furnaces
 - couldn't melt iron
 - drove off oxides
 - full of iron silicates
 - » Later large cupolas, charcoal
 - melted iron
 - produced cast iron full of carbon
 - » Wrought iron produced in finery
 - mixed with iron silicate + iron oxide
 - burned off carbon
 - iron having higher melting point crystallized out
 - blooms 200 - 300# chunks
 - pressed to remove iron silicate
 - rolled into muck bars
 - cut-welded - rerolled merchant bars
 - » **Practically no carbon**
 - work at 1900 to 2000 F
 - weld at 2300 F
- **Crucible Steel**

STEELS TODAY

- **Varying amounts of carbon & other metals**
- **Most common - hot rolled**
 - A-36
 - varying alloys
 - up to 0.29% carbon
- **A-36**
 - Burns at high temperature
 - don't work below dull red
 - never strike when black hot
 - tends to break at sharp corners & nicks
 - use borax to weld
- **Older 1018 0.18% carbon**
 - still available on special order
 - all hot rolled less than 1" x 1/4" us 1018
 - more forgiving than A-36
- **Cold rolled**
 - treated with acid to remove scale
 - treated with lime to kill acid
 - can cause welding problems

STEEL DESIGNATIONS

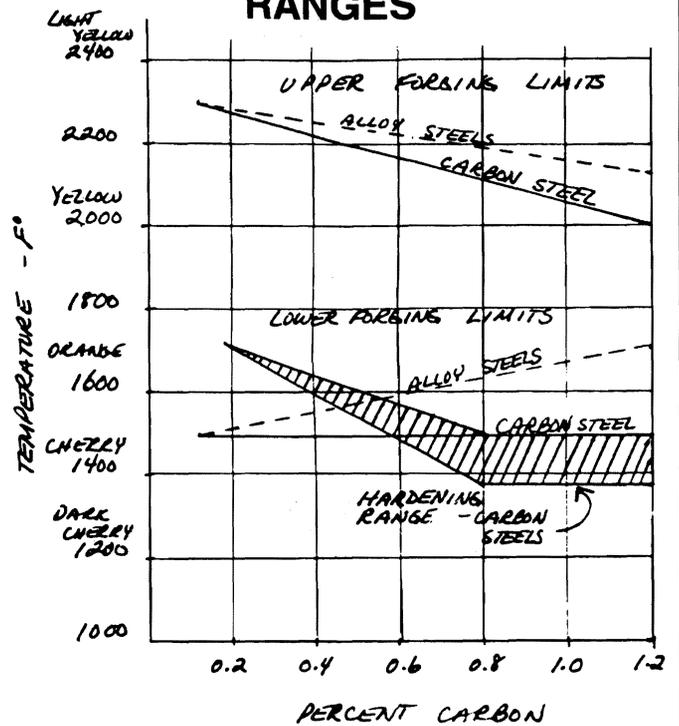
- **SAE - Society of Automotive Engineers**
- **AISI - American Iron & Steel Institute**
- **Designators - Partial List**
 - Last two numbers indicate carbon in points XXpoints = 0.XX percent
 - 10XX iron & carbon
 - 11XX Sulfured steel good machinability no good for smithing - can't weld, tends to crumble when hot
 - 13XX Manganese steels - hard surfacing
 - 20XX Nickel steels
 - 30XX Nickel chrome steels
 - 40XX Molybdenum steels
 - 41XX Chrome molybdenum steels
 - 51XX Chrome steels
 - 61XX Chrome vanadium steels
- **These are industrial steels**

Southern Ohio Forge & Anvil

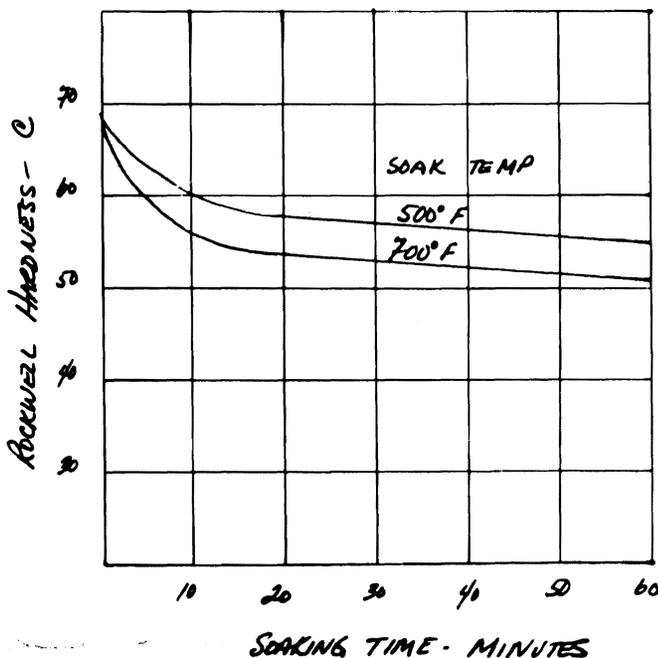
TOOL STEEL DESIGNATIONS

- W-x Water hardening steels
- O-x Oil hardening steels
- S-x Shock resistant steel, oil or air
- D-x Die Steels oil or air
- A-x Air hardening steels
- H-1x Chrome hot work steels, oil or air
- H-2x Tungsten hot work steels oil or air
- M-x & T-x High Speed steel
- Identifying these steels in a scrap yard is difficult
 - Spark test works on W-x steels but not others
 - Bring piece home - harden
 - use oil quench - temper

FORGING/HARDENING RANGES



TIME HARDNESS Carbon Steel - 1082



QUENCHING EFFECTS

- | Agitation | Oil | Water | Brine |
|-----------|-----|-------|-------|
| None | 0.3 | 1.0 | 2.0 |
| Moderate | 0.4 | 1.3 | 3.0 |
| Violent | 1.0 | 4.0 | 5.0 |
- Water & brine are poor quenches for modern steels
 - initial cooling acceptable
 - final cooling too rapid causing stress cracks

Southern Ohio Forge & Anvil

TYPICAL TEMPERATURES FOR HARDENING STEELS

<u>SERIES</u>	<u>TEMP</u>	<u>MEDIUM</u>
4140	1550° F	OIL
5160	1550° F	OIL
1075	1475° F	WATER
S-5	1600-1700° F	OIL
O-2	1400-1475° F	OIL
A-2	1700-1800° F	AIR
D-2	1800-1875° F	AIR
H-13	1825-1900° F	AIR
H-21	2000-2200° F	AIR/OIL
M-2	2100-2250° F	AIR/OIL

SUMMARY

- Most steels require oil quench
 - motor oils/transmission fluid - toxic fumes - low flash point
 - tempering oil - high flash point
 - » fumes non-toxic
- Water quench can be used
 - carbon steels
 - 4140 - 5160 - 6150 - 5-x steels
 - provided simple shapes
 - use warm water or brine 70 - 90° F
 - heat only portion to be hardened then draw to color - blue in most cases
- Most tool steels require heats much higher than cherry red

TOOLS FROM SCRAP

- Junk yard steels
 - 4140 Truck & car axles
 - 5160 Hot work - hardens thru
 - » rear truck springs
 - » Chrysler torsion bars
 - » all coil springs
 - » car leaf springs
 - S-x Jack hammer bits
 - 1085 Shallow hardening
 - » Hay rake teeth
 - » Potatoe digger belts
 - » Plow shears
 - Drops - Industrial
 - » Hot rolled
 - » Cold rolled
 - » Mostly annealed/some hardened

COLOR CODE

- This color code applies only to the industrial drops sometimes found at first street recycling in Dayton, OH
 - usually found on the ends of cutoff pieces
- H-13 Green/White
- S-7 Orange/Black
- A-2 Green
- D-2 White
- 4140 Blue/Green - annealed
- 4140 Blue/Green w/Gold - hardened
- M-2 Yellow/Orange



**CHAPTER LIAISON
NEWSLETTER**
Nov 1994

NEW CHAPTERS:

Welcome new ABANA Chapter:
Furnace Town Blacksmith's Guild (note this new entry on the list enclosed). Although a new chapter of ABANA, Furnace Town is not a new group. They have been an active blacksmith association for years. They bring thirty-six members into the fold.

NON-ABANA BLACKSMITH CLUBS:

We are aware of at least eighteen blacksmith interest groups around the country that are not presently ABANA chapters. Many of them, like Furnace Town, have a history of regular demonstrations and hammer-ins as well as a substantial membership. One surmises that there could be a number of misperceptions that have dissuaded them from applying for Chapter status:

1. They think joining would be expensive.
2. They see no benefit from joining.
3. They believe they have to be incorporated.
4. They believe they are too small.
5. They share an emphasis on a special branch of blacksmithing e.g. archeological, tool making, bladesmithing, etc., that they don't think ABANA is interested in.
6. They are under the impression that they will be exposed to greater liability if they incorporate or join ABANA as a Chapter.

NOT SO!

1. It doesn't cost anything.
2. There are plenty of benefits: newsletter exchange, dissemination of raffles, conference classes and demonstrations to the whole membership and availability of insurance: to name a few.
3. We recommend incorporation for liability protection and charitable status, but you don't have to be incorporated. Many of our chapters are not incorporated.
4. It only takes five ABANA members who also belong to a blacksmith club to qualify as a Chapter.
5. Special interest groups like damascus, tool making, etc. should consider chapter status. Other ABANA members with the same interest can be solicited to join and to

contribute and to receive your newsletter even though they are geographically distant.

6. Public Liability - If your group is not a corporation and somebody gets hurt at a club event, not only will the member who volunteered his forge be liable, but your whole membership could be individually liable because the law will treat you as joint venturers. There's a lot of membership overlap. Seriously, consider evaluating ABANA chapter status with your clubs next year. Call me or Andy Quitmer if you need help.

ATTA BOY:

To the *ALABAMA FORGE COUNCIL* who has opened their 11th forge: Landmarks Forge in Dothan, serving Southeast Alabama.

To *SOFA* for purchasing building and equipping their own building with multiple public demonstration forges at the Miami County Fair Grounds and for finishing it in time for Quad State Round-Up.

To *VANCOUVER ISLAND* for finishing their own building and forge at Luxton Fair Grounds, Vancouver.

To *NED EDLEN* of the Central Maryland Chapter, who made a noble effort to organize the Southern Maryland Smiths to fill the need there and in Northern Virginia. Super effort, Ned. Don't be discouraged. There are a lot of good smiths in Virginia and Southern Maryland who need a place to get together. It will happen.

SUBDIVISIONS:

Chapters with a wide geographic membership might want to seriously consider creating divisions or regional forges with their own regular hammer-ins and demonstrations to increase membership and member activity. Some of our most active chapters like the Alabama Forge Council have used this technique and their size proves its effectiveness. People will regularly drive 10 to 20 miles to share blacksmithing, not 100 miles.

Any opinions expressed in this newsletter are the opinions of Chairman, John Pollins. If you have any comments, please direct them to:

John Pollins III
Chapter Liaison Committee Chairman
RD #5 Box 154, Greensburg, PA 15601

ABANA

Artist-Blacksmiths' Association of North America



P.O. Box 1181, Nashville, Indiana 47448
Executive Secretary, Janelle Gilbert

Office Hours: 9:00am - 5:00pm
Phone: (812) 988-6919

ABANA PRESIDENT'S MESSAGE
November, 1994

Dear ABANA Chapters,

The ballots are in for the 1994 ABANA Board of Directors election. With 692 ballots in, the results are as follows: Joe Harris, 555; Toby Hickman, 545; Lou Mueller, 545; John Pollins, 533; Tal Harris, 449; Charley Schultz, 398; Will Hightower, 307. In addition to the three incumbent Board members, we welcome two new Board members, Lou Mueller and Tal Harris to the ABANA Board. I would like to thank all of the candidates for taking the time, and making the commitment, to run for the ABANA Board. Please join me in thanking Charley and Will for their willingness to serve the membership, and encouraging them to run again.

This month, the ABANA Board is holding its annual Budget Meeting; and once again, Emmert and Jane Studebaker have offered the use of the Studebaker Homestead in Tipp City, Ohio, for the meeting. We very deeply appreciate the use of this remarkable facility, and the wonderful hospitality that Emmert and Jane have shown us over the years. ABANA would be something less than it is without the support of people like Emmert and Jane.

Going into the Budget Meeting, we are nearing the 4,000 mark in ABANA's membership. We have seen growth in the National Endowment Trust for Artistic Blacksmithing. We have introduced a new insurance program. We have new items in our ABANA Video Library. We have seen the first, and will soon see the second ABANA-member-only exhibition at the National Ornamental Metal Museum. We are coming off the most successful ABANA Conference ever. We have an improved Scholarship Program. We have more sales items than ever before. We have more Chapters than ever before. The Anvil's Ring has more pages than ever before. Kind of sounds like something is happening here, doesn't it?

This Budget Meeting, as in every other one, will present a whole new set of challenges as the ABANA Board prepares to enter its 22nd year. It is the responsibility of the Board to ensure that our precious resources are used in the most effective way, to provide the education, opportunity, and service mentioned in our by-laws. Fiscal responsibility and a good bit of human effort has brought us to this point. It is time to set our sights on the horizon, and take ABANA where its founding fathers only dreamed of being.

But remember, we don't want you (day) dreaming about anything as you engage in your favorite activity! Plan to take an extra moment to think about each task before you do it. Now there's a sure-fire way to make certain you are around to enjoy the beautiful fall weather!

Warm Regards,

Clayton Carr
ABANA President

Southern Ohio Forge & Anvil



CHAPTER LIAISON NEWSLETTER

Dec 1994

WELCOME NEW CHAPTERS:

The ABANA Board has approved the Western Canadian Blacksmith Association's request to divide into three separate Chapters better suiting Canadian Law and their local needs. Note these new entries on the list:

*North Alberta Blacksmith's Guild
Saskatchewan Blacksmith's Guild
South Alberta Blacksmith's Guild*

These three new Chapters will share one newsletter produced by Rick and Joan Dixon.

East Texas Blacksmith Alliance have been holding regular classes and demonstrations in their public forge at the Tyler County Heritage Village since 1987 and come into ABANA with 50 active members.

ATTA BOY:

Clayton Carr for two years of his time and talents away from his work and family to run ABANA as our President.

Tom Clark for two years on the ABANA Board at the same time that he was devoting enormous time and energy as President of BAM to put on the St. Louis ABANA International Conference.

These are labors of love --thank you both.

ANNUAL ABANA BOARD MEETING

Welcome three energetic dynamos to the Board: Tal harris (North Carolina), Lou Mueller (Missouri), and Charlie Schultz (Texas).

FALL CHAPTER CALLS

The Fall Chapter Calls generated some interesting facts: ABANA now has 47 Chapters in three countries.

With the new East Texas Chapter included, there are 13,592 blacksmiths in ABANA Chapters. Conspicuously, only 2,088 of the Chapters' members also belong to ABANA. There are another 2,000 smiths who belong to ABANA but do not belong to any Chapter. If we add them together, we're looking at 15,000 names without considering the members of 15 to 20 Blacksmith Clubs out there that are not presently ABANA Chapters.

The surprisingly high total is a little deceptive because we know that many smiths maintain membership in more than one Chapter. Eleven of the Chapters (22%) report ownership of their own forges. This is probably low because many Chapters use forges in public historic parks that they do not own.

Twenty of the 47 Chapters (43%) are incorporated. Only sixteen Chapters (34%) are insured. This figure is also deceptively low. In all probability Chapters which are covered by the insured museum/historical site where they run the public forge would have reported "no insurance". Seventeen Chapters (36%) have scholarship funds.

CHAPTER FUND RAISERS!

The ABANA Office has an excess of two different souvenirs in left over from the 1994 ABANA Conference. They are the small & medium T-shirts (grey background, magenta wrap-around design) and the slick black notebooks given to attendees at registration. The T-shirts were clear-water "damaged" in UPS, but only need to be washed for wear.

First come first serve! Your Chapter may order up to 12 T-Shirts (mixed sizes) and up to 50 notebooks.

The souvenirs are *FREE* except for \$5.00 shipping and handling that must be pre-paid with the order by VISA, MasterCard, Check, or Money Order.

Act now to get your stash for Iron-In-The-Hat drawings and event auctions. Call or write: ABANA Office, PO Box 1181, Nashville, Indiana 47448, phone: (812) 988-6919 weekdays 9-5 DST.

CHANGE OF OFFICERS?

Please send in your change of address or President/Editor updates for the enclosed contact list.

ABANA MEMBERS IN YOUR AREA

The ABANA Office will send you a list of national members located in your zip code area to compare with your roster for recruiting. Just call or write with your chapter's zip code range to request the printout.

John Pollins II
Chapter Liaison Committee Chairman
RD #5 Box 154, Greensburg, PA 15601

ABANA

Artist-Blacksmiths' Association of North America



P.O. Box 1181, Nashville, Indiana 47448
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Phone: (812) 988-6919

ABANA PRESIDENT'S MESSAGE December, 1994

Dear ABANA Chapters,

The ABANA Board once again held its annual Budget Meeting in November at Emmert and Jane Studebaker's remarkable facility in Tipp City, Ohio. It was an excellent meeting! For the first time since its inception, the Hammer's Blow is "paying for itself." We are no longer funding it as a special project, it is a regular part of the budget. And that is not all! From 1995 on, the Hammer's Blow will not only be mailed to the North American members, but the entire ABANA membership. There are many other exciting things to look forward to in the coming year!

Just prior to the annual meeting, ABANA Board member Tom Clark found it necessary to leave the Board, due to problems with home and business. We wish Tom the very best of luck in all his endeavors, and thank him for his energetic efforts on the Board in service to the ABANA membership. The Board, in accordance with its by-laws, moved to fill the position without delay. Please join me in welcoming Charlie Schultz to the Board! Charlie will fill Tom's unexpired term.

We have a new ABANA President! Joe Harris from Elkview, West Virginia brings with him a wealth of knowledge and experience. Joe has a strong background in business and finance, and is well familiar with the business of the organization. All this adds up to a very highly qualified and competent leader. It has been my pleasure and honor to have served the ABANA membership in my capacity as President to this point, and I look forward to using my own special skills to help ABANA in brand new ways during my remaining tenure on the ABANA Board.

We would be pleased if you could begin sending ABANA's new president your chapter newsletter in place of my complimentary subscription:

Joe Harris, ABANA President
1 Maple Lane
Elkview, West Virginia 25071

This is my last opportunity to remind you that our most precious resources aren't coming out of the kitchen tap. Our most precious resources are our eyes, ears, hands, feet, lungs; all those things that make us the vulnerable humans that we are. It is up to us to protect those precious resources with everything we have at our disposal. Ours is a craft that has been called the "king of the crafts." It deserves respect! Please, for your sake, for the sake of your family; wear and use all the protection available to us today.

Thanks again to everyone who made my tenure as President so rewarding!

Warm Regards,

Clayton Carr
Outgoing ABANA President

Southern Ohio Forge & Anvil

Southern Ohio Forge & Anvil

Offset printed on an excellent paper, Super Max Polished, text and cover weights. Paper stock donated by Howard Paper Mills, we appreciate their support.

Classifieds:

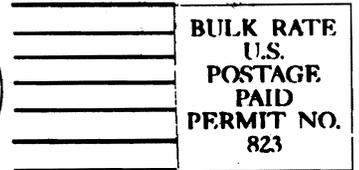
1995 Powerhammer Rebuilding Seminar, sponsored by Little Giant Inc. Instructor is Fred Caylor. Date is March 3-4-5, 1995. Place: Little Giant/Automotive Inc., 420 4th Corso, Nebraska City, NE 68410 — PH 402-873-6603. This is a three day seminar at which a Little Giant Powerhammer will be evaluated, dismantled, all repairs completed, (including the pouring of babbit bearings), reassembled, adjust and run before we leave. Everyone participates. Registration fee is \$85.00

Blacksmith Demonstrators are needed for the commemoration of the Greenville Treaty signing, this is the 200th anniversary of the signing and is sponsored by the Miami Council, Boy Scouts of America. The expected crowd will be from 6,000 to 24,000 (projected). The date is May 6, 1995 from 9 to 4 pm. Contact Larry Helton at 513-236-2434.

FOR SALE: Centaur Forge Firepot with dump gate. never used, \$100. Al Minneman 513-698-6027 after 5:30 PM. West Milton, OH

c/o Richard Kern, editor
P.O. Box 284
Xenia, OH 45385

SOFA SOUNDS



MEMBERSHIP EXPIRATION: 6 -94

Franklin, Richard A.
7158 Klyemore Dr.
Dayton, OH 45424