



# N.J.B.A. Newsletter

**NJBA Volume 9, Issue 2 08/01/04**

## Editors Soapbox

Well, it's mid Summer and although it hasn't been as hot as other Summers in the recent past, remember to keep cool and drink plenty of water (Or my favorite, Seltzer). I went to the ABANA conference July 7-11th down in Kentucky and had a good time meeting other smiths and watching the demonstrations. We don't have a meet in August, but there is a selection of meets in September, Walnford in October and November is still in the works. We'll post card the meet to keep you up dated when the plans are set. Till next time stay cool and keep hammering.

Larry Brown, Editor

## Upcoming events for 2004

Get you calendars out and mark these events down. For those on the web bookmark our web site and check for meet information. Remember most of our meets have an "Iron in the Hat" drawing, so be sure to bring something.

**September 17 -19th**, 10 AM Washington Crossing Park, Engine Demonstration. Details on this page.

**September 18th**, Peters Valley Pig Roast, Details on pages 3 and 4.

**September 19th**, NJBA Picnic and Adam Howard's Hammer-in at the Red Mill Museum in Clinton, NJ. Details on page 4.

**October 3rd**, Walnford Day, Walnford Park Details on page 4.

**November**—To be announced

**December**— Holiday Party, details next newsletter



## Blacksmiths Wanted Washington Crossing Park, Engine Demonstration

On September 17<sup>th</sup>, 18<sup>th</sup>, and 19<sup>th</sup> The Delaware Valley Old Time Power and Equipment Association will be holding their fall show at Washington Crossing State Park in Titusville, New Jersey.

NJBA took part in this show last year and it was a good time for those involved. This is a very good opportunity to meet some of your fellow smiths, see some great old engines and tractors, and cruse the flea market for some neat, rusty, stuff. This is a great venue to sell some of the items you have forged and to show the general public just what you can do with iron, fire and hammer.

NJBA will be set up for the first 2 days of the show; there will be a forge, vise and an anvil (maybe two) for your use. We will also set up tables for items for sale and display. We are asking for as many of you that can spare some time to come out and help. There is an admission fee charged to enter the show, but if you tell the people at the gate that you are with the NJBA there will be no charge. The Engine Show is located in Washington Crossing State Park off of Rt. 29 (River Rd.) South of Lambertville and North of Trenton signs are posted to show the way.

If you would like to spend some time with us, please contact:

Mike Erdie  
John Chobrda  
Mitch Swirsky

609-882-4686  
609-443-3106  
609-882-8190

# New Jersey Blacksmiths Newsletter

## **NEW!!!** **Official NJBA Address**

**NJBA**  
**P.O. Box 761**  
**Mt. Laurel NJ 08054**

The old address was:  
NJBA, P.O. Box 195  
Howell, NJ 07731

This will still be active for a while but  
please note the change and start using  
the new address.

## **The NJBA Web Site!**

The NJBA Web Site is up and running at:

<http://njba.abana-chapter.com/>  
The Newsletter is at:

<http://members.bellatlantic.net/~vze25jcc/index.htm>  
or the site may be linked to from the NJBA web site.

**Rather than use room in the newsletter,  
All correspondence between  
ABANA and NJBA is now being posted  
on the NJBA web site.  
If you cannot access it there, contact me  
and I will send you copies**

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# PETER'S VALLEY BLACKSMITHING



## PIG IRON FEST

Pig Roast / Burgers / Hot Dogs / Salads / Sodas & Beer

Music supplied by Malfunction Junction!

To be Auctioned: Artwork, Tools and More!!

To be Raffled: 1 Anvil and 1 Bic Horn

Only \$30 per person – kids under 12 free!

Presented by

Maegan Crowley, Jimmy Clark, Bruce Ringier and the Staff at PV  
*All proceeds to benefit Peter's Valley Blacksmithing Department*

Call for details -973-948-2393 shop

973-948-5200 office

# New Jersey Blacksmiths Newsletter

## Peters Valley Fourth Annual Pig Roast and Fund Raiser

On September 18th Peters Valley will hold its fourth annual Pig roast and fund raiser. Please bring or send pieces to donate to the auction. The cost for the day is \$30 with children under 12 free. For more information please call the main office at (973) 948-5200.

### Directions to Peters Valley;

**Peters Valley Craft Education Center** is located at 19 Kuhn Road. in Layton (Sussex Co.). NJ 07851. (Phone: 201-948-5200).

#### From Interstate Route 80 West:

Take Exit 34B to NJ Route 15 North. to US Route 206 North. Left onto NJ Route 560 West. Go through the blinking light in the center of Layton. onto NJ Route 640: go about 2 miles and turn right onto NJ Route 615. Go approximately one mile.

**From US Route 209** (on the west bank of the Delaware River in Pennsylvania): Take PA Route 739 South across the Dingmans Ferry Bridge. Take the first right at sign to Peters Valley. Go two miles.

## Red Mill Museum in Clinton, New Jersey

### ANNUAL HAMMER-IN /

### TOOL SWAP / NJBA PICNIC

Sunday, September 19, 2004, 10 am till 4pm Rain/Shine  
Red Mill Museum Village

56 Main Street

Clinton, NJ 08809

Contact: Adam R. Howard, Blacksmith 908-735-4573

Activities will include demonstrations, the tailgate tool sale, live music, iron in the hat and the NJBA members picnic! In addition to previous years activities, we are inviting all Smiths who wish to exhibit/sell their work and wares to participate. NJBA members or anyone wishing to tailgate, demonstrate or exhibit, will be provided free admission with pre-registration, general admission of \$7 for the public.

The event is preceded on Saturday by the Peters Valley Pig Iron Fest...So we're in for a full weekend of fun

and fellowship! Participants may pre-register by calling Adam Howard at the Forge, 908-735-4573

Bring tools, anvils, or any smithing related items and collectibles, bring your checkbooks, bring your appetites!

See you there.....Adam R. Howard, Red Mill Forge

### Directions:

I—78 to exit 15, go North from exit onto West Main Street. Go to ahead and onto Old Highway 22 making a left on Leigh Street and then make a left onto Main Street. (These directions are from the map on my computer LB)

## October Meet at Walnford Park

We will be demonstrating and holding a membership meeting at Walnford Park on October 3th. We will have the trailer there, so come down and do a little forging and meet with others in the group while enjoying the park and the day. Members are asked to bring their own lunch for this event.

Historic Walnford is the 36 acre Historic District at the heart of Crosswick Creek Park. This country estate and former mill village provides a window to view more than a century of social, technological, and environmental history in Western Monmouth County. The site includes a large home built for the Waln Family in 1774, an 1879 Carriage House, and assorted outbuildings and farm structures. Much of the site's interpretation is connected to the newly restored and operating late 19th century Gristmill.

### Directions

- NJ Turnpike to Exit 7A, (I-195 east). Follow I-195 to Exit 8 (Allentown, Rt. 524/539). Turn South onto Rt. 539 through Allentown (Rt. 539 requires a left turn where it splits from Rt. 524). Follow Rt. 539 to Holmes Mill Rd. Turn right. Follow to Walnford Rd. Turn right and follow 1 mile to Park.

- Rt. 9 to Freehold (West Main Street/Rt. 537 east exit). Northbound, turn left at exit; southbound, turn right at exit. Follow Rt. 537 west to Rt. 539. Turn right onto Rt. 539 west. Follow Rt. 539 west to Burlington Path. Turn left; follow to Holmes Mill Rd. Turn right; follow to Walnford Rd. Turn left and follow 1 mile to park.

# New Jersey Blacksmiths Newsletter

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## Outside NJBA Event!! Iron Symposium Cooperstown, NY October 9, 10, 11, 2004

This Fall will see the first ever "Pre-industrial Iron Symposium". Hosted by the Farmer's Museum of Cooperstown, NY, this three day event will bring professionals and enthusiasts from across the country together to participate in activities, demonstrations and lectures related to the production of bloomery Iron.

New York state was once a leader in the production of iron and iron work in the United States and bloomery iron played an important part in the State's as well as the Country's economy. Join us over Columbus Day weekend as we explore this exciting early technology through a series of lectures and demonstrations. On the first day (Sat, October 9), we will light a charcoal fire, on the second day we will fire up a smelter, and on the third we will go into the shop to fashion an artifact from the iron we have made. Lectures and demonstrations pertaining to the making and use of early iron will be held throughout.

We have some wonderful demonstrators lined up including:

**Paul Spaulding**, NY;

Forge work (19th c. blacksmithing)

**Lee Sauder**, VA; Smelting Demo and lecture (contemporary bloomery smelting.)

**Darrell Merkowitz**, Canada; Forge work and lecture and exhibit (Viking-age ironwork)

**Daniel Karem**, Canada; Lecture, Slide show and exhibit (Iron work of the Spanish Renaissance)

**Tres Loeffler**, NY; Forging demo, lecture (Colonial tool making)

**Barry Keegan**, NY; Lecture, Demo (Backtracking the iron age, stone-age smithing), (Charcoal Making) (Eight ways to make fire)

**Michael McCarthy**, NY; Lecture, Demo (Forging Blooms), Slide show (The blacksmith shop)

Ticket Price will \$150.00 for this three day event, and will include breakfast and lunch on each day. One day tickets are \$75. Any specific lecture can be attended for

\$5. Call Karen Wyckoff at 1-607-547-1410 or 1.888.547.1450 for Registration and Details.

If you have any questions, feel free to get in touch with me! [michael@hammerinhand.com](mailto:michael@hammerinhand.com) (or leave message with Karen)

## Report on the NJBA Anvil Workshop, March 6<sup>th</sup> and 7<sup>th</sup>

### Report by Nate Pettengill

Larry Brown asked me to write "a few words" on the anvil workshop and I did set out to do just that but then the usual something happened seeing as I favor a full story and not just only the dull dry facts ma'am like some of these other contributors in a hurry. So, having provided full disclosure and advance warning, here we go...

Probably the "iffyist" thing about this workshop was getting the welding materials together. At a previous board meeting, when we were planning this thing out, the list of necessary stuff included a roll of Lincoln Lincore 55-G wire for Marshall Bienstock to do edge hard face welding, some Hobart Fabtough 250 wire for Bruce Hay to do the same and box of Hobart Smootharc E6020 buildup rod for John Chobrd. Since they were donating their time and I can't weld nearly half a damn like these guys, and besides, this was my first go at organizing something of this magnitude, I figured I'd best try to humor and impress them if I possibly could. But after a trip to the local "Welding R Us" and about five phone calls to other places where they had never heard of Lincore 55-G, I called Marshall back and explained that his stuff was maybe like the Holy Grail of welding wire and if just suppose he had the American Welding Society specification for Lincore 55-G, maybe I could get something exactly like it, only made by someone different. Marshall is pretty comfortable using Lincore 55-G wire and continued to encourage me to find a roll. When I stopped by his shop for Monday night open forge, he showed me an empty roll to cure my doubts that it was purely mythical, encouraged me to try again and passed on a few likely places to call. After a long hold at Industrial Welding Supply in Sayreville, they confirmed that they did have

# New Jersey Blacksmiths Newsletter

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one roll in the back. When I asked them to put it aside until I got there, the guy on the phone said "Don't worry, nobody uses that stuff, it'll be here". And when I got there Friday, it was. Turns out that Lincoln has gone through some kind of corporate restructuring and they are out of the wire business, the stuff was so old that they didn't have the price in their computer anymore and so we haggled (this is Jersey after all) out a price of \$4.00 a pound. I guess four bucks must have been a pretty good deal 'cause people at the workshop wanted to buy some of it after we were all done. Marshall tracked down the rest of the welding stuff and John Chobrda brought a box of E7018 stick he had laying around anyway and we were set to go which was good because you'd hate to have a dozen guys showing up with anvils and have to tell them it might be a while.

We lit off the pre-heat fire about quarter of eight on Saturday. Marshall had improvised a tuyere under the fire pit out of three-inch pipe and I had a leaf blower with a three inch outlet set up and pretty quick, the rosy aura from that wood fire was a thing to admire. Maybe more on that later. As the anvils arrived, they were greeted with a quick edge grind, cracks and pits were ground down to clean metal and assorted dings removed and then into the pre-heat fire to get to the necessary 400F plus. We had originally planned on using these heat crayons to figure out when the anvils were ready but that fire was now hot enough to move you back a few feet beyond reasonable human reach, even with the crayon set in a pair of long-armed tongs. As most of you can relate, when the eyebrows get seriously hot, it does takes a real effort to stand in there, much less think about what it was you intended to do before it got so blistering. But John Chobrda brought this slick infrared heat sensing dingus with a laser pointer that takes the spot temperature of the anvil horn, body and heel and all from a safe distance and it worked pretty well. Doug Learn's two sons Japheth and Calum adopted the aforementioned temperature-sensing device, assumed the duties of anvil warmers and all went like clockwork until the rain started in.

That caused a quick side scurry to assemble the remnants of a carport that had blown over and been donated to the NJBA in its sideways state. It came off the pallet into its many constituent pieces and then back together in a most useful and dry form in maybe ten minutes or less, given full participation. I concluded that

rain must focus the jigsaw puzzle solving abilities in the membership, similar to the way a hose works wonders on a cat's ability to remember how to get out of the tree after all. The rain came down pretty heavy for a while there while we caught up on various views and opinions on the usual blacksmith subjects.

As the anvils reached heat, they were parceled out based on their base material; wrought went to Marshall, cast iron went to John Chobrda. I'm not exactly sure why but Marshall thought it was important so we went along with it. Maybe Marshall will enlighten me next time I see him. The only problem we had was that Japheth and Calum were having such a good time with the leaf blower that they were heating the anvils faster than we could parcel them out so we pulled them out and covered them with the Kao wool we had set aside for the gas forge workshop that Jeff Morelli was due to hold the next month. Turns out that there was plenty to spare but we didn't know it at the time. We did end up having to reheat about three of them anyway.

We had twelve of the thirteen anvils welded up by early afternoon and the grinding underway but the last one, belonging to Tom Eden, revealed a manufacturing flaw. As John started to weld, he noticed a hairline crack on the edge than ran over to the face. He hit it with a grinder and it kept going down. Pretty soon we realized that there was a chunk of steel floating loose in the anvil and by the time he got to solid metal there was a serious three or four inch crater deep and wide in the thing. The rest of the afternoon was spent layering up buildup rod until there was metal level with the surface and side. I'd be curious to hear if that anvil is holding up.

The grinding. We enlisted the services on one Andy Vida to lead the effort and to teach us all a few fine points of the grinding art. Last time we had a workshop, Andy Vida put a mirror polish dead flat surface on one of my Peter Wright anvils that I really haven't had the heart to abuse or even smack hard on ever since. It's sort of like he ruined it by making it perfect. I have admired that anvil many times and then gone over and beat a piece of tool steel that cooled down too much while I was admiring the Peter Wright on the swayback Trenton. Andy used to live in Jersey but he's kicked around lately and for the moment lives in Portland Oregon. You may recall a number of frequent flier miles accumulated during another tale. I can relate that some of them went to

# New Jersey Blacksmiths Newsletter

good use to get Andy to the workshop. It's always nice to see Andy and he can tell a good story. Andy's technique is to start off with a cup stone to move a lot of metal fast, get the welds back to level and take off high spots. He starts with the sides and then the top and then back to the sides, watching as the flat between the two disappear as it comes down to a sharp corner. Frequent application of a straight edge and then hitting the high spots gets the edge straight, sure enough. After that he works a grinder on the surface to get it as flat as he can fore and aft and side to side and then he goes back and adjusts the edges. Andy can make the horn of an anvil a dangerous thing, ask Dave Macaulay. I would put an old coffee can over that horn when I wasn't working on it and I would never take a step backwards in a shop with that anvil in it. We used 40 then 60 and then 80 grit flap sanding disks to do fine adjustments and to put on the mirror finish. As a final touch, Andy uses a strip of emery cloth to take out the last of the grinding marks on the horn and polish it up, same as the face. Sunday we started a little late but we finished up the grinding about early afternoon and spent the rest of the day tidying up and settling accounts for supplies and such. Thanks to Marshall and Bruce Hay, who donated their fuel for the generator and portable welder. Andy Vida spent the morning scrounging old wrought iron out of some tidal river and showed up with a pickup truck bed loaded with it. I'd never had a chance to work wrought iron in quantity so we worked that a bit as an extra. I learned it does work well at yellow heat but beware the splash from the first hammer stroke; almost like the flux splatter from a forge weld. We had a good number of the flap disks left over we decided to include them in the next iron in the hat, when ever I get to one, which is pretty seldom lately, since I've been on the road again, this time in Minneapolis. Well there's the story as it was, I think I got it all down, even the fun, I figure I can give this a read when we do it all again next year. Any questions or comments, let me know and we'll address them next time. Nate Pettengill  
(Also thanks to Andy Donner and Larry Brown for their welding efforts. Some of the base build up of the cast anvils was done with Nickel rod and some worked best with 7018, was hard to determine which worked best till the weld was tried on each individual anvil. The participants who brought their anvils to be repaired also worked by doing the carrying, grinding and other jobs. Quoted comments by Editor)

## NJBA Meet With Kerry Rhodes

Report by John Chobrda

Sunday, May 16<sup>th</sup> turned out to be beautiful day weather wise for NJBA's meeting/demo that was held in Central NJ at the Silver Decoy Winery, located just off of CR 539, south of Hightstown, NJ. Kerry Rhodes of Forged Creations in Delaware City DE was our featured demonstrator. John Chobrda brought his portable forge equipment and with the help of Tom Eden, Mitch Swirsky, Mike Erdie, Josh Kavett, and Bruce Freeman everything was set up by the time Kerry arrived. Kerry started off by giving a small talk about his background and his feelings about metal work (Kerry comes from a very artistic family)

After firing up the forge Kerry proceeded to forge some decorative elements that he incorporates into railings and fences, the one that I liked best was the pineapple twist, where a piece of square stock was grooved on the flats, twisted and forged square, then grooved on the flats again and then untwisted. He then proceeded to brush with a brass brush as the piece cooled to give it highlights, he explained as the piece cools you will feel when the brass is "grabbed" by the iron, too hot and the brush just slides off, too cold same thing.

The next item Kerry started was a wizard head, as he was forging and talking, the piece got a little burned, he explained the one sure way to mess up a piece was to demo it. Showing his resourcefulness and artistic bent he turned the "wizard" into a devil, the rough face really was fitting.

After lunch and "iron in the hat" Kerry did some copper repose using just a few simple hammers and an open leg vise. He finished up the day forging a bird using sheet metal, every time I thought he was done and that the piece looked great he would add a small twist or forge an edge and the piece got better.

All in all it was a great day, the weather was perfect, Kerry was very informative and a few of us got a personal tour of the winery. It was a shame that more of our members did not attend; they really missed a great meeting.





# New Jersey Blacksmiths Newsletter

## Report on Meet in Historic Cold Spring Village

Cape May, NJ June 19th, 2004

Prepared by David Macauley

The New Jersey Blacksmith Association our annual demonstration and hammer in at Historic Cold Spring Village (HCSV) in Cape May New Jersey on June 19<sup>th</sup> and 20<sup>th</sup>, 2004. The event coincided with HCSV's Men and Machines event. HCSV is a 19th century restored village – actually a collection of restored buildings from the area that were brought to a common site. There is a blacksmith shop in the village, which is run by one of our NJBA members, Jerry Goldman. Jerry continued his exceptional hospitality again this year. David was particularly grateful for his demonstration on using a rivet set.



Tim Suter and David Macauley

In past we have had to contend with some terrible weather and black swarms of mosquitoes. Other than a very hot and muggy night on Friday, the weather was absolutely perfect – 70s and low humidity. Heck we didn't have an excuse to make so much smoke – well we did anyway. Attending on Saturday where: David Macauley and his family, Bill Futer, Mitch Swirsky and his wife, Mike Erdie and his family, Jerry Goldman and Tim Suter. David worked for two days to complete a deadbolt – ARGGG! Mitch was practicing making some leaves with help from Bill. Mike was finishing up some work he had

started earlier (~~Hopefully a rivet set~~ *what he was actually making*). Tim did an excellent job interpreting our demonstrations to the public. Tim brought a project book which included some beautiful work. We really need to have him give a demonstration to the club some day.

We didn't have much of a crowd on either days – many folks probably spent most of the time at the beach. It sure was nice to swim in the ocean after the event. Unfortunately, the Grange restaurant was not open this year, so the NJBA consoled ourselves with hot dogs and hamburgers from the snack bar.



David Macauley at the forge

Big thanks to Tim Suter for bringing his equipment to the site even though we decided that we would make do with NJBA equipment. David was pretty concerned about not being able to get my truck fitted with a brake controller, so when Tim called on Monday night we asked him to bring his equipment as a backup. Everything was finally installed and working on Friday afternoon. The ride down with the trailer was great. The electric brakes worked perfectly. Although David's truck complained about accelerating, slowing down felt as if the trailer was not there.

NJBA members should really consider making a small holiday at the beach during this event in the future. This year David and his family stayed ocean side in Wildwood Crest – about 15 minutes HCSV. We had a wonderful time. The long flat beaches and mild surf are perfect for children. The boardwalk is a great place to stroll in the evening after a hard day of blacksmithing.



# New Jersey Blacksmiths Newsletter

## Monmouth County Fair

East Freehold Park NJ

July 24 – 25th, 2004

Report prepared by David Macauley

NJBA participated in the 2004 Monmouth County Fair by providing demonstrations to the public. Unfortunately, I, David, had to travel to California on business the week of the fair so I was not able to provide much organization to setup; however, Bruce Freeman did a great job pinch hitting. Our only snafu was not getting the key for the tool cabinets to the folks that wanted to demonstrate Wednesday through Friday. We will work to rectify that in the future. The weather apparently was not very good for the first 3 days, but it improved steadily for the weekend.



This year we modified the fly with a self standing skeleton of  $\frac{3}{4}$ " and 1" pipe. Tom Eden sold NJBA the fittings and bungee cords. Josh Kavett donated the  $\frac{3}{4}$ " pipes and we reused the telescoping 1" pipes from our existing setup. The self-standing fly was secured with 4 ropes at the corner. The resulting system is stronger is much stronger and weather resistant than our previous system of poles, ridges, ropes and stakes. The fly is up

higher and provides more room on the edges to move in and out of the fly.

Demonstrations were provided on Saturday by Grant Clark, David Macauley and Tom Majewski. Grant worked on a few horse shoes – always a favorite. He also accepted a challenge to make a horse out of steel which came out quite nicely. David Macauley and Marshall Bienstock provided demonstrations on Sunday. As usual, David worked on making tongs, but I also did a coat hook with ball ends. I made the ball ends by welding metal around  $\frac{1}{2}$ " square stock.

Many thanks to all those who helped with assembly and tear down of the site. Not sure who helped with the setup but I know the tear down was done by Marshall Bienstock, Tom Eden and Tom Majewski. We quickly realized that we need a system for carrying the 8 ft long poles for the fly – they will not fit inside the trailer. Any ideas for attaching the poles to the trailer would be welcomed.

The fair again spurred some ideas for additional equipment for the NJBA trailer:

1. We really need a folding table to display our work.
2. Another vice stand: This year we borrowed Bruce's vice stand that was fabricated last year at the vice stand workshop. We could really use a vice stand with four detachable legs capable of supporting two vices at either ends of the stand.
3. First Aid kit
4. Rivets  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{1}{2}$ "
5. New roofing for the trailer – the plywood is wearing quickly. We probably need sheet metal or some other protective surface. In fact the entire trailer could use a coat of paint

Lessons learned:

1. The white PVC tubes are great for the stanchions, but are too heavy for storing the stock. We have started storing the stock on the floor of the trailer
2. I think we need a different hood system – something that would block the wind and draw more of the smoke up the chimney – he did note that the wind blows predominantly from the east across the fields.

# New Jersey Blacksmiths Newsletter

## The ABANA Conference

Report by Larry Brown

Mike Hirsh and I left for Kentucky on Tuesday morning the 6<sup>th</sup> and drove down to Dunbar, West Virginia that night, had dinner and spent in a hotel. Moving out early the next morning we arrived at the conference before lunch, checked in and started looking things over.

The demonstration areas were ready and some of the tailgaters and vendors were arriving and setting up. Uri Hoffi and his helper were in a tent set up to demonstrate the "Big Blue Power Hammer". On Wednesday afternoon the only forging going on was Uri who did two demonstrations making leaves and other free form parts to demonstrate the dies and capabilities of the power hammer. Demonstrations by Uri and his helper went on throughout the conference. Wednesday evening was the opening ceremony followed by a lecture and slide show given by Albert Paley on the history of his work (Some really big work).



Uri Hoffi

Thursday morning the demonstrations began. I started out by watching Mindy Gardner of Illinois demonstrate leaf repousse with a treadle hammer and after a short while I moved on to watch Willem Yonkers of the Netherlands demonstrate the forging of a "Viking Fire-dog". Yonkers started the demonstration by shaking hands with most of the audience which at he was getting a late start wasn't too large. He then showed a picture of the firedog which had a dragon head and wings. He first formed the wings out of clay to determine the forging

steps and methods and then started forging the wings out of "Pure Iron". A good tip was that when making multiples of a item place center punch marks on the stock so that as you forge you can use dividers to check the size of the pieces to each other. On Thursday he also made a candle holder out of bronze for the ABANA auction that was held Saturday night. On Friday he rough forged the main section of the piece and the other pieces of iron. Saturday while I was involved with the Doug Wilson demo he finished the dragon head (I wish I hadn't missed this part) and made a bronze ring for the dragons mouth. Yonkers demonstration continued from Thursday into Saturday when the piece was completed.



Willem Yonkers

To stretch my legs and see what else was going on I would occasionally move from the Fire dog demo to watch other nearby demonstrations. A team of Czech smiths led by Daniel Cerny forged an "ABANA Conference Grill". His assistants were Jan Stanek and Gert Bruyninx. As the smiths spoke little English this site was almost all forging and very little talk. It was a pleasure to watch this team work together. The Czech smiths con-