



N.J.B.A. Newsletter

NJBA Volume 13, Issue 1 4/31/08
<http://njba.abana-chapter.com>

Editors Soapbox

Hi, We have lined up some great events for this year. You can all help by making suggestions for demonstrators that we can contact and try to arrange in the future. As editor I would appreciate some help in writing up events for the newsletter. You don't have to be a gifted writer just send me something about the event as I can't make all of them or remember everything. Remember this is your group, so find some way of being involved and you will enjoy it more. Our next meet is at Cold Spring Village and is an election meeting, so come out and see this great location for a meet and vote!

Larry Brown, Editor

Upcoming events for 2008

Get you calendars out and mark these events down. Please bookmark our web site and check for updated meet information. Remember most of our meets have an "Iron in the Hat" drawing, so be sure to bring something. Meet information starts on this page and continues on page 3.

June 21st Waterloo Village NJBA has been asked to provide a demonstration. More information on page 3

June 28 - 29th Historic Cold Spring Village (HCSV) in Cape May. More information on this page.

July 19th Delaware City Day, Hammer-In and BBQ More information on page 3.

August 3—10 Middlesex County Fair More information on page 3.

September 12 - 14 Old Time Engine Show Washington Crossing Park, NJ, More info on page 4 .

September 28th Red Mill in Clinton NJ More information on pages 4 & 5

Historic Cold Spring Village (HCSV) June 28th - 29th

NJBA is holding a public demonstration/hammer-in at Historic Cold Spring Village (HCSV) in Cape May on July 28 – 29. This will also be an NJBA elections meet. If you are interested in joining the board please contact David Macauley. Try to come out and vote. NJBA has been holding this event at (HCSV) for several years now. I will be bringing the NJBA trailer and some personal portable equipment down to the site, so you don't need to lug any equipment If you are interested in demonstrating to the public or just hanging with the Smiths please join us. I can obtain free passes and meal vouchers for all demonstrators. I do need to know in advance if you are coming one or both days, so I can make arrangements. We have also been known to have a nice a lunch at the Grange on the property.

Generally we start set up around 9AM and break down by 5PM. Travel time from central NJ is about 2 hours and Cape May is wonderful place to visit with your family.

If you need further information, please contact me at your convenience. The web site for HCSV is: <http://www.hcsv.org/>

Thanks,

David Macauley

Notice

Recently NJBA member Jeff Morelli passed away. Any donations NJBA members are able to make to an educational fund for the benefit of Jeffrey's children would be appreciated. Donations should be written to "Morelli Children Fund" and sent to Mark Cubberley, 282 Main Street, Groveville, NJ 08620.

New Jersey Blacksmiths Newsletter

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 use the link on the NJBA web site.

Official NJBA Address

NJBA
P.O. Box 224
Farmingdale, NJ
07727-9998

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.
ABANA is communicating again so
check it out

NJBA Board of Directors

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Waterloo Village with the Canal Society of NJ June 21st

NJBA has been invited to provide a blacksmithing demonstration at the Waterloo Canal Day at Waterloo Village on June 21. This event is being hosted by the Canal Society of NJ. The village is technically closed since the organization that interpreted the village is defunct. However, the NJ Canal Society has been given permission to host an event on the site. We cannot use the blacksmith shop, but we will be able to demonstrate outside the shop with our own equipment. This looks like another great family event. The address for the village is:

525 Village of Waterloo
Stanhope, NJ 07874

Directions: Travel West on I80 and take exit 25 then follow the signs.

For more information please contact: David Macauley, 732-206-1568, drmacauley@att.net

early as the parade runs down Clinton Street and it will be closed at 9:00 AM. phone numbers are: 302-832-1631 or 302-757-0733

Come on out on the 19th of July, bring your family, your work, a hammer, your hunger and something (food) to share. Hope to see you then.



Delaware City Day, Hammer-In and BBQ July 19th

Second Annual Hammer in / BBQ

Kerry Rhoades and John Choborda, along with the New Jersey Blacksmiths Assn. would like to invite all smiths, metal heads, and their families to the 2nd Annual forge in and BBQ on Saturday July 19th at Kerry's shop, "Forged Creations" in Delaware City, Delaware. This event is being held in conjunction with "Delaware City Day" a day of parades, games, and fireworks.

We will be setting up portable forges and display tables for you to display and sell your work, also to demo to the general public and teach some of us old dogs new tricks. We will be grilling a whole suckling pig, so we ask that you bring a covered dish or something to share with others. Space is available for tail gating so bring any tools, anvils or stuff you no longer use. Kerry's shop is located at 124 Clinton Street in Delaware City, try to come

Middlesex County Fair August TBA

We have been invited back to Middlesex County fair which runs from August 4th through the 10th in East Brunswick. Setup will be Sunday August 3rd. and tear down will be Sunday August 10th. The fair hours are 5 -11 PM Monday through Friday, 11 AM - 11PM on Saturday and 11AM - 7PM on Sunday. We will have the NJBA trailer at the site and we will probably have additional forging stations. We will be under a tent with other crafters. The site has easy access to water and power and we will have tables to display our forged items. All smiths are encouraged to attend. We particularly need some coverage during the week days. A remuneration of \$100/day is available to NJBA which is turn will be available to demonstrators to help defer transportation costs. This is a wonderful fair to attend and is great opportunity for the entire family.

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Middlesex County Fair , Cont. BLACKSMITH

Here are the driving instructions:

The Middlesex County Fair is located on Cranbury Rd. where it intersects Fern Roads in East Brunswick. Take Route 18 into East Brunswick, follow the directions for Cranbury onto Cranbury Road (Rt. 535 South), pass East Brunswick High School on the left, keep left at the fork, and continue on Cranbury Road for about three miles to the fair. 655 Cranbury Road.

FROM OLD BRIDGE-Take Route 18 north toward New Brunswick, pass the Colonial Diner and head toward Cranbury over the Route 18 overpass and proceed past the high school and bear left at the fork, as above.

Route from north county (this is the least congested route), take Exit 8A on the New Jersey Turnpike.

Turn right on Route 535 North directly to fairgrounds (5 miles

For further information please contact David Macauley, drmacauley@att.net 732-206-1568,

Old Time Engine Show September 12th, 13th, and 14th

NJBA will again be at the Delaware Valley Old Time Power and Equipment Association's "Days of the Past" Engine Show at Washington Crossing State Park, in Titusville, New Jersey. Come on out and bring the family, there are hay rides for the kids, a metal heads flea market, and a lot to see. We will have a couple of forges going so bring a hammer, also if you have some items for sale we will have a table out. Come on out and join the fun. For more information check out their web site <http://daysofthepast.com>

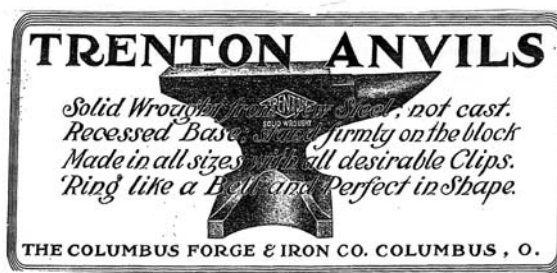
Directions:

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.

HAMMER-IN & TOOL SWAP At the Red Mill Museum Village

**Sunday, September 28th
10:00am - 4:00pm**

Details on the next page, come out and have some fun!



Outside of NJBA meets: Atlantic Coast Blacksmiths Conference

Mark Aspery - David Norrie—Peter Ross
3 Days of Hot Metal at the Ashokan Center,
Olivebridge, NY . September 4 - 7, 2008

More information on page 6—8

This looks like its going to be a great conference, so register early to get a spot!

Furnacetown Blacksmith Shop

The meet was Cancelled due to lack of preregistration. We need to get up and register early to help get some of these activities rolling.

**BLACKSMITH
HAMMER-IN & TOOL SWAP**
At the Red Mill Museum Village
Sunday, September 28th
10:00am - 4:00pm

*Hosted by the
NJ Blacksmith Association*

The day's activities will center at the Museum's Blacksmith Shop where local blacksmiths and the New Jersey Blacksmith's Association, a non-profit organization dedicated to the promotion of the art and craft of blacksmithing, will have members on hand to demonstrate and sell their work.

Tool dealers and collectors are invited to tailgate, sell and swap their smithing tools and accessories. We are currently registering blacksmiths and tool collectors.

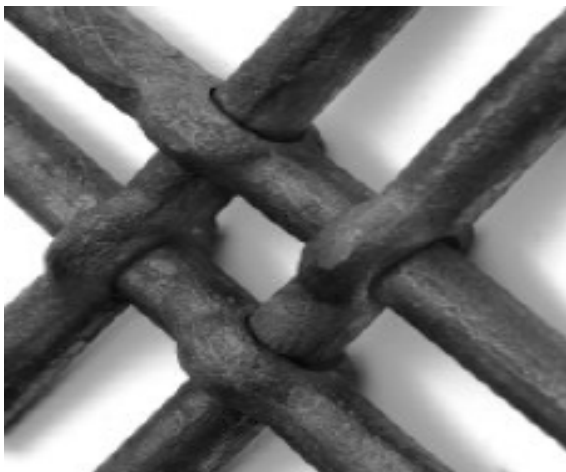
Admission is \$8 for adults, \$6 for seniors, and \$5 for children (6-12). Free for children under 6, museum members and for NJBA members.

Included in the price is admission to the Museum's historic buildings and exhibits.

The Red Mill Museum Village is located at 56 Main Street in Clinton, NJ.
For more information, or to register call the Museum at (908) 735-4101.

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Announcing the First Regional Atlantic Coast Blacksmiths Conference



"A meeting of minds and friends
welded to a love of the craft."

Mark Aspery - David Norrie
Peter Ross

3 Days of Hot Metal
at the
Ashokan Center,
Olivebridge, NY

September 4 - 7, 2008

A Cooperative Event, Sponsored by:
Northeast Blacksmiths Association
New England Blacksmiths Association
Blacksmith Guild of Central Maryland

With the Support of:
Connecticut Blacksmiths
Capitol District Smiths
Berkshire Blacksmiths
Blacksmith's Guild of the Potomac
Pennsylvania Artist Blacksmiths' Association

Demonstrators

Mark Aspery

Mark is an European journeyman blacksmith, currently an Associate of the Worshipful Company of Blacksmiths in the United Kingdom. He currently owns and operates the Mark Aspery School of Blacksmithing based in Springville, California. Mark is an accomplished smith who, besides taking on private commissions, teaches throughout the US, and is authoring a series of books that teach the Blacksmith's craft. "My own style now is one of a semi-literal, flowing representation of the natural world, utilizing traditional methods of joinery where ever possible."

David Norrie

David, who has lived in Boulder, Colorado since 2001, operates a three-man shop that specializes in architectural ironwork commissions. His primary focus is in creating functional architectural iron work ranging from sculpture, furniture to gates and railings. David has demonstrated his blacksmithing skills and techniques all over the United States, Canada, and England. His commissioned work has been installed throughout North America; from West Palm Beach, Florida to San Mateo, California, as well as in Canada.

Peter Ross

Master of the Shop at Colonial Williamsburg's Anderson Forge for over twenty years, Peter Ross's interest in blacksmithing began while still in high school. In the early 1970's he volunteered at Old Bethpage Village Restoration in New York. He attended Rhode Island School of Design, then worked with Dick Everett of Connecticut who specializes in the restoration and reproduction of 17th and 18th century hardware and furnishings. In 1976, after several months of travel in Europe studying ironwork, Ross opened a one-man shop in Deer Isle, Maine where he concentrated on the restoration and reproduction of English hardware, tools, and cooking utensils from the 18th and 19th centuries. In 1979, he began as a journeyman blacksmith at Colonial Williamsburg and 3 years later was appointed Master of the Shop.

"Traditional objects combined fashion, function, and economy. The challenge was efficient use of iron and labor... so that early pieces are a delightful mix of simple, yet elegant solutions. Early work has a casual and spontaneous character that gives each piece life and charisma - even very repetitive things such as nails or door latches made by the thousands."

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A Stimulating 3 Days of Fire, Iron, & Fun Tentative Schedule of Events

Thursday Sep 4

1:00 PM Registration Begins
6:00 PM - 7:00PM Dinner
7:30 PM - 9:30 PM Slideshow David Norrie

Friday, Sept 5

7:30 AM - 8:30 AM Breakfast
8:45 AM - 11:45 AM Demonstrations Mark Aspery (P)
Peter Ross (T)
NOON - 1:00 PM Lunch
1:15 PM - 2:30 PM Mini Demonstrations - TBA
2:45 PM - 5:45 PM Demonstrations David Norrie (P)
Mark Aspery (T)
6:00 PM - 7:00 PM Dinner
7:30 PM - 9:30 PM Slideshow Peter Ross

Saturday, Sept 6

7:30 AM - 8:30 AM Breakfast
8:45 AM - 11:45 AM Demonstrations David Norrie (P)
Peter Ross (T)
NOON - 1:00 PM Lunch
1:15 PM - 2:30 PM Mini Demonstrations - TBA
2:45 PM - 5:45 PM Demonstrations Mark Aspery (P)
Peter Ross (T)
6:00 PM - 7:00 PM Dinner
7:15 PM - 8:15 PM Auction of Forged Ironwork
8:15 PM - 10:15 PM Slideshow Mark Aspery

Sunday, Sept 7

7:30 AM - 8:30 AM Breakfast
8:45 AM - 11:45 AM Demonstrations David Norrie (P)
NOON - 1:00 PM Lunch
1:15 PM Silent Auction Ends
1:15 PM - 2:45 PM Pick up Silent Auction and IITH
1:15 PM Tear down begins

Your help in tear down will be appreciated

Demonstrators - staggered demonstrations to allow all attendees to see each demonstrator progress through various stages of their projects.

Education - A separate hands-on teaching tent operating throughout the 3 days, with qualified instructors and well equipped forging stations for those wishing to receive hands-on instruction as well as Lectures, and Slideshows.

Forged Ironwork - A Gallery and an Auction of Demonstrator and Attendee Forged Items.

Tools and Equipment - A variety of trade show, vendors, tailgate sales as well as an Iron-in-the-Hat lottery and Silent Auction throughout the weekend.

Ashokan Center - The site we have chosen has been the NBA's meeting place for over 30 years. It is a beautiful campus set in the wooded foothills of the Catskill, in the scenic Mid Hudson Valley of New York. We are offering a food plan, bunkhouse lodging and on-site camping.

Lodging

Bunkhouse plan is \$54.00 (includes 8% NY Tax) for Early registrants includes a bed in the heated building with showers and toilets. Blankets and pillows will be provided. Bring your own towels, sheets or sleeping bag. Capacity: 130*

Camping plan is \$32.40 (includes 8% NY Tax) A very large primitive camping area is available on the grounds for \$30 per person. There are no electrical, water or sewage hookups, and no dump station. Potable water, bathroom, & showers are located a short walk from the camping area.

Motels There a number of motels with 10 miles.

Food

Dining Hall plan is \$162.00 (includes 8% NY Tax) The full food plan begins at dinner on Thursday and ends at lunch on Sunday: 9 meals, unlimited beverages. Capacity: 160*

Food Vendors We plan to have fast food/lunch wagon vendors on site for those who do not wish to use the meal plan in the dining hall. There are also **Restaurants** there are several within 10 miles

*Call Registrar to check Bunk/Food Availability

For details on Motels & Restaurants contact:

Ulster County Chamber of Commerce

www.ulstertourism.info 800-342-5826

www.ulsterchamber.org 845-338-5100

Nearby Towns: Shokan, Mt.Tremper, Woodstock, Hurley, Kingston, Phoenicia, Saugerties.

For more information on the Ashokan Center:

<http://www.newpaltz.edu/ashokan/>

Conference Option Price Chart

	Before	15 Jun	1 Aug	After
Option	15 Jun	1 Aug	25 Aug	25 Aug
1 Day	75.60	75.60	75.60	75.60
4 Day	108.00	124.00	140.00	144.94
4 Day/Camp	140.40	156.60	172.00	180.25
4 Day/Bunk	162.00	178.20	194.40	201.85
4 Day/Meals	270.00	286.20	302.60	322.60
Full/Camp	302.40	318.60	334.80	357.91
Full/Bunk	324.00	340.20	356.40	379.51

All prices include 8% NY Sales Tax

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Atlantic Coast Blacksmiths Conference Registration Form

Please Print Clearly

Name _____ Age if under 18 _____

Address _____

City _____ State ____ Zip _____

Phone Number _____

Email _____

What do you consider your main Blacksmith Affiliate?
_____ ABANA Member? _____

Choose an **Option** from chart and the correct **Charge** from the columns based on when you are mailing your registration form in and enter them below. If Option is:

4 Day/Bunk or Full/Bunk

Circle your choice of bunk (Top - Bottom)

Bottom bunks go early so if you want one register early!

Also indicate your sex (M – F)

so we may slate you for the proper bunk room.

If Option is 1Day circle Day Choice: Fri / Sat / Sun

Note Sunday is only ½ Day as Conference ends at Noon

Option _____ Number in Party* ____ x \$ _____

= Total Enclosed \$ _____

Check number _____ Date _____

I understand that blacksmithing is a potentially dangerous activity and agree to wear safety glasses while observing or participating in any of the demonstration areas. I further agree to hold harmless the Atlantic Coast Blacksmiths, the Ashokan Center, and the Ashokan Foundation in the event of personal Injury.

Signature _____

Make checks payable to: Atlantic Coast Blacksmiths
Return your registration form and check to:

ACB Conference C/O Tim Neu
Ashokan Center
477 Beaverkill
Olivebridge, NY 12461

* Please copy and fill out a separate form for each member of your party and mail together if using a single check for payment.

Driving Directions to Ashokan Center

A. Start: Kingston Exit 19 RT-28 W

1. Follow the sign to Route 28 West / Pine Hill (quick right after the toll).

2. Continue on Route 28 West for 11.5 miles to the hamlet of Shokan.

3. Turn left at Winchell's Pizza (red building on left) onto

Reservoir Road. (Also, an arrow sign on your right for

"Olivebridge 4 Miles" points left for Reservoir Road.)

4. Cross the Ashokan Reservoir Bridge and continue to the stop sign.

5. Turn left at the stop sign onto Monument Road.

6. Bear right at the fork onto 28A.

7. Take the next left onto Beaverkill Road (just past the DEP police station).

8. Continue for one mile and turn right at the Ashokan Center sign on your right.

B. End: 477 Beaverkill Rd Olivebridge, NY 12461

To see a map go to;

www.acblacksmiths.org

For more Information

Tim Neu, Registrar, (845)657-8333

neutim@newpaltz.edu, neutim@ashokancenter.org

Ryan Blessey, Conference Chair, (203) 948-0463

ryanblessey@charter.net

Ashokan Coast Blacksmiths Website:

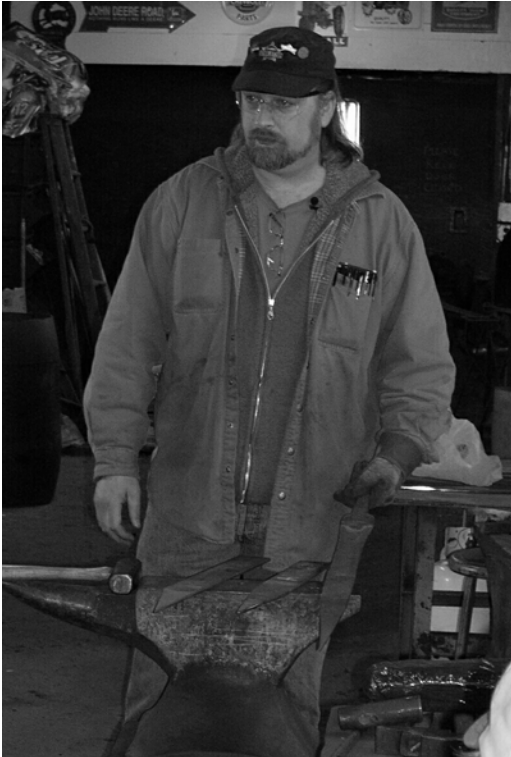
www.acblacksmiths.org

The Preservation of Fire



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Mark Morrows
Demonstration at
Marshall Farm
on February 23th
<http://www.swordsmith.net/>



Mark started by talking about the development of the Roman sword and the weapons of their advisors such as a long Persian blade that he had brought a blank for as a sample. Mark then started with a tool steel stock that he had cut diagonally giving the sword point from each blank a start. He

Mark Morrow demonstrated the making of a roman gladiators sword for NJBA on February 23rd at Marshall Shop.

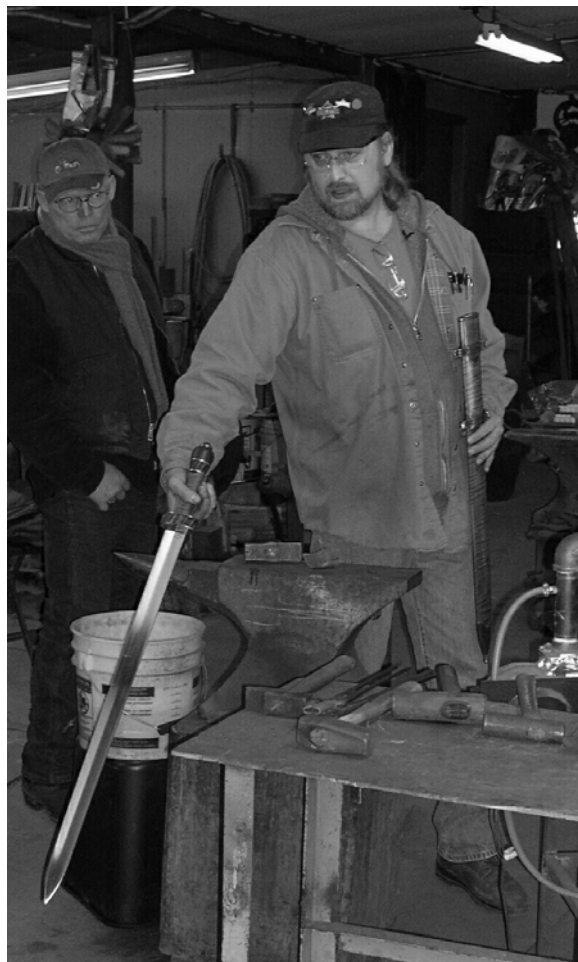


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draws out the tang on a power hammer and then starts forging the blade by working from the tip back to the tang. He works the stock evenly from both sides and straightens as he does. He uses a gas forge for his forging heat source. Mark also discussed different types of materials used for the hilts and scabbards. Mark brought several styles of blades in various stages of completion to show the process used to create the blade and the scabbard. Mark was a very enjoyable and knowledge able demonstrator and if we can get him to demo for us again be sure not to miss the opportunity to see him.

Had a more detailed write up but it died in the computer, this is where the help from others at events such as sending me copies of your notes can assist greatly. LB



Sad News

We recently received news of the passing of Rich Laporta of Piscataway who has been a long time member of NJBA.

Rich died on Friday 2/22/2008 of a heart attack. It all ended very quickly. In a message from his wife Lori she said Rich enjoyed going to the demos and talking Black Smithing with the people associated with NJBA. He will be missed by his family and those of us who knew him



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A Great Demo at SICA"

May 10, 2008 - Long Branch, NJ

NJBA took a bold step and did its 1st demo at a Sculpture Show. "Sculpt" held by SICA (Shore Institute for Contemporary Arts), was an opening day event for their summer long outdoor "Sculpture" 2008 sculpture show in Long Branch, NJ. The grassy Demo area next to the Oceanside boardwalk was the center for woodcarving, pottery making, glass blowing, modern dancing, and BLACKSMITHING. Mid day, the Car Music Project, (a jazzy band playing instruments they made from a CAR) fired up the music and really got things going. Meanwhile Dave's family disappeared for hours on the beach after borrowing a few small tools. Sometime around mid afternoon his daughter reappeared with a prize she had won in the Sandcastle making contest down on the beach.

Our Project, Originally called the "Blacksmithed Beast", was renamed "Rust the Magic Dragon" as this seemed a bit more in the spirit of the day's event, and it will also of course "live by the Sea". We had 2 forges running with one forging out pieces for the Dragon and the other busily pumping out rebar stakes to hold the beast down. The public couldn't have been better. Many people showed up to watch, ask questions, and a few even stepped up and took a few swings at the hot stuff. "The Boss" Bruce Springsteen even stopped by to see the smiths in action, but we were all too busy to notice. The Beast was made from 2"x 1/4" stock and 1 1/2" x 1/4"

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stock and stands about 8+' tall, by 10+' long, by 7+' wide. We'd like to thank all the NJBA members (Marshal's Monday Night Crew) and also Larry Brown who helped pre form much of the beast in the weeks before this event. And also a special thanks to Dave and Tom who were defiantly the day's demo crowd pleasers.

After a solid day of Demo & Creation we carried the Beast through the streets (with some public help) and set her in her spot among the other sculptures on the traffic island between the North and Southbound lanes of Ocean Blvd.

Many thanks to : Eric Von Arx ; evonarx@hotmail.com for coordinating and working so hard on this project that hekps get the name of NJBA and the idea of blacksmithing out to new members of the public. From me, Larry Brown the editor, Eric thanks many times for this article. Pictures of the show can be seen here; <http://www.suburbanartists.com/sica2008>



————ABANA Discount Program At Graingers————

For Njba members who are also members of ABANA, You NEED To Check The ABANA Web Site! There is a minimum of 10% on all orders done this way. Some discounts are as high as 50%. Standard shipping is included also. The information is available on their home page or <http://www.abana.org/resources/grainger-program.shtml>. There are other 5% discounts from other vendors; http://www.abana.org/resources/discount_program.shtml

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Sad News From Europe

April 28, 2008

In memorium: Prof. Alfred Haberman

The artist blacksmith with the most influence on his craft in central Europe, Alfred Habermann, recently died on 28th of April in the hospital of Waidhofen, Ybbs, in Austria only a few days before his 78th birthday.

The "pope of artist blacksmiths", the "master", as Habermann was called by almost all of his colleagues, apprentices and friends, he was a "globetrotter" of the artist blacksmith's trade. Nearly on every continent he held lessons and workshops in which he has lightened the fire of metal forging with modern patterns.

Until his last days he was working in his chosen "Heimat" Ybbsitz in Austria. During the last years he had found his place to be in the restored "Welser-Schmiede", together with his daughter Christine, who is supposed to be one of his successors in the different ways of creating. Always behind Alfred Habermann there was his wife Maria. She supported him in every single way, on every single place.

With his Oeuvre Habermann created the future within the present. His visions were understood by his colleagues only years after Habermann made them come true.

He was the founder of a young, hungry generation of artist blacksmiths in Europe. Now it is up to them to show what they have learnt. This generation as sure as his master-colleagues and friends will be on the way to Ybbsitz on Friday, 2nd May, to say goodbye to one of the fixed stars of the international blacksmith's family. The funeral will start at 12 a.m.

(This message was created by Peter Elgaß and Tobias Schumacher - HEPHAISTOS publishing house. Please excuse the bad English. But we supposed this message to be very urgent in order to make possible to every blacksmith around the world to take part at the funeral.)

From The Forge List

Many springs are 5160, others maybe 1095 or other alloys. New auto springs are "who knows what" but since you seem to be talking about older springs -- assume they are 5160.

5160 is a chrome steel with 60 points of carbon or 6 tens of 1 percent carbon. 5160 is oil hardening. If hardened it should be tempered -- and I would do that in a oven at 400 F for 1 hour.

BUT -- for most uses as blacksmithing tools you do not need to heat treat this steel. Just forge your tool and let it air cool. Dan Tull has been doing this for years and he is older than dirt. Some of his tools maybe older than dirt too.

The reason to anneal is only if you need to drill or machine this steel, otherwise let it air cool and use. If you do anneal this steel, then you will need to heat treat it, if you want to use it as a spring. Heat to critical, quench in oil and then temper. For springs you may want to temper higher than the 400 F I gave above.

If I have an unknown spring steel that I want to use for a "cutting edge tool" (woodworking or cold chisel) then I first try using an oil quench and if that doesn't give the results I want I move to a water quench.

Everyone who does heat treating will have cracking sometimes -- GOD says so. But the biggest reason blacksmiths have cracking is that they overheat above critical for a given steel. Quench from too high a temperature with a steel like W1 (1095) or O1 and the chance of a crack is near 100 percent. The history of use of old springs -- is another major factor in cracking of the steel in heat treating. No much you can do about this except to hold your mouth the right way when quenching. (POSTER; I'musing harrow and hay rake springs)

Now you tell us. Most harrow, and hay rake springs are 1095, the same basic steel as W1.

W1 is very brittle unless you temper it if you have quenched this steel -- so don't quench it, just let it air cool. The working end will still be hard enough, and the spring will still be springy enough.

I make most of my spring swages using 1/4 x 1 and 1/2 hot roll (A36) -- no heat treat, no quench.

Dave Smucker

<davesmucker@hotmail.com>

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Calculating the Weight

Story & illustrations by Eden Sanders, San Andreas, California

Reprinted from the California Blacksmiths Association Newsletter

By the way - if you finished your hat rack, mirror frame or end table and want to know about how much it will cost to ship, you will need to know how much it weighs - below are some simple calculations you can make to obtain approximate weight. You know how much stock you had to begin the project, and you know how much scrap was left over, right? For each dimension used, subtract the scrap length from the original length to get the number of linear feet used.

Steel weighs about 490 pounds per cubic foot, or about .284 pounds per cubic inch. The formal math for computing the weight would be to calculate the area of the cross section of the stock, multiply it by 12" to get the number of cubic inches per linear foot and then multiply that by .284 to get the number of pounds per linear foot. However, that calculation can be simplified into those shown below for rectangular, round and square (a special case of rectangular) stock. So now you can do the math.

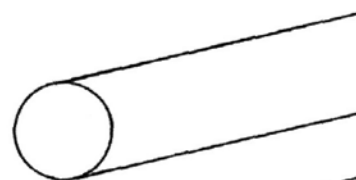
1" x 1/4" bar

Multiply the width times the height: $1 \times 1/4 = .25$
Add a zero (multiply by 10): 2.50
Divide by 3: $2.50 / 3 = .8331b.$
1 linear foot = approximately 5/6 lb.



1/2" diameter round bar

Multiply diameter by 4: $.5 \times 4 = 2$
Square the result: $2 \times 2 = 4$
Divide by 6: $4 / 6 = .667 lb.$
1 linear foot = approximately 2/3 lb.



1/2" x 1/2" square bar

Square the size: $.5 \times .5 = .25$
Add a zero (multiply by 10): 2.50
Divide by 3: $2.50 / 3 = .833 lb.$
1 linear foot = approximately 5/6 lb.



What Should I Know About Hydraulic Forging Press Safety?

by Dave Smucker,

Appalachian Area Chapter of Blacksmiths Newsletter, July/August, 2005

Let's start this discussion by quoting the back cover of Jim Batson's book, *How to Build Your Own Hydraulic Forging Press* (see References in Paul Boulay's article, *Whitney Potter & His Amazing Squishing Machine*, on page 9):

"Warning. The improper manufacture or use of this tool may cause serious injury or death! Do not place hand or fingers under the ram or between the dies!

"Flying Objects. The use of hand held tools between the dies is not recommended. The large force of 50,000 pounds can impart a side force to a tool or piece of metal that can become a lethal missile!

"Fire Hazard. Hydraulic fluid is flammable. The flash point of Rando Oil HD 68 is 435°F. It will burn your shop down! Hydraulic fluid sprayed from a leak or hole in the high-pressure line is an eye hazard and may become a flamethrower when ignited!"

The last warning that Jim makes is the one that I worry about the most with blacksmiths and hot metal. It is what industrial safety experts call a low occurrence, very high impact accident. I know of industrial accidents in which a cloud of hydraulic oil mist has been ignited by hot metal and resulted in the loss of life. My personal experience includes a number of very serious mill fires where hydraulic oil and hot metal combined for major damage to equipment and buildings.

What Can I Do?

- To start with, use the best hydraulic hose and fittings you can buy.
- Next, make sure that you use the right fitting in the right place. This is not the area for just getting by or jury-rigging.
- Every day before you use your press, inspect the hoses and fittings for damage or signs of leakage. If there are any, fix or replace before using - don't delay. Don't say, "I'll do that tomorrow."
- Seriously consider shielding that will prevent leakage or spray going directly on you or the hot metal. Make sure that shielding doesn't prevent you from inspecting the hoses and fittings.
- I prefer designs that put the pump, motor, valve and cylinder below the hot metal. There have been very good presses built that operate through either a push-up or a pull-down mode with the cylinder mounted below the working area.

The other risk area I would comment on is what Jim calls flying objects. One major advantage of a hydraulic system of this type is that there is not a great deal of stored energy in the hydraulic system, but there can be a lot of stored energy in the press frame, dies and guides. Repeated loading may cause welds to fail or parts to fail, releasing stored energy in a microsecond. Pay attention to your design and welds. How are parts going to be loaded? How are they going to be deformed and what will happen if they fail?

The above thoughts are the opinions of the author and not the position of the Appalachian Area Chapter of Blacksmiths. Remember, you are the one responsible for your safety, and the comments recorded here are intended for you to think about ways in which you can limit your risk and exposure to the hazards associated with the craft of blacksmithing.

New Jersey Blacksmiths Newsletter

Stainless steel,
Laser cut protractor
that comes in
three sizes, 6, 12,
and 24 - inch.
Wolfgang asks if
you can define the
use of the humps
in the cross arms.

3 Cool Tools

Wolfgang Rotbart, who runs Wolfgang Forge in Vernonia, Oregon, found himself in the same dilemma that every blacksmith has faced at one time, looking for just the right tool.

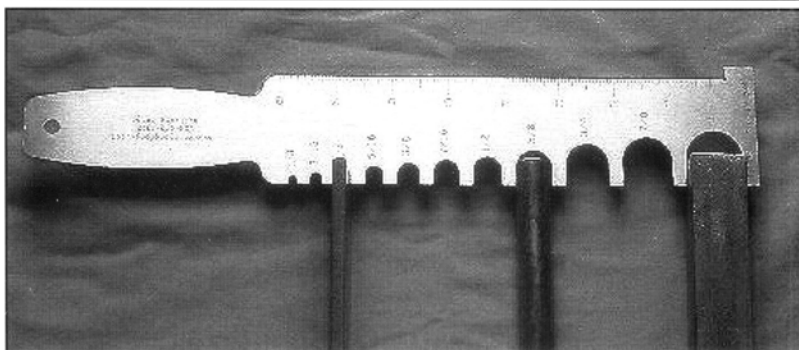
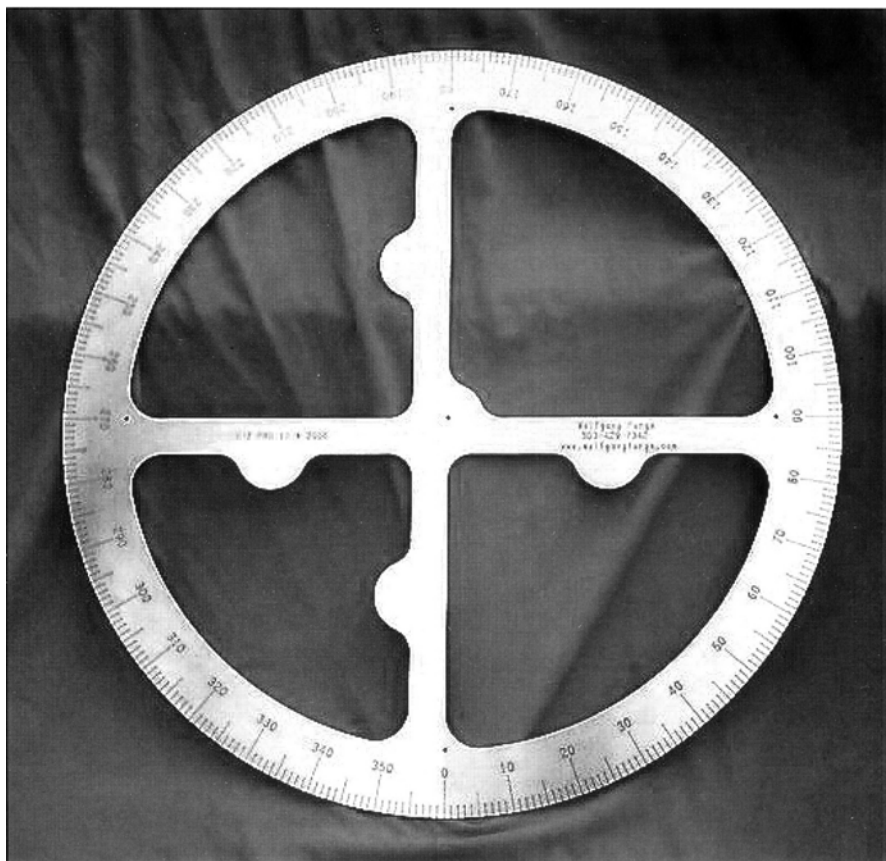
His answer was also one that many smiths resort to, make your own.

Two of the devices he

came up with - not necessarily new ideas, just improvements on what already exists - are a gauge hook and rule and a protractor.

He developed the gauge to quickly determine stock sizes

without the hassle of a tape measure. The slots are used to determine the diameter of round stock, the size of square stock and the thickness of flat bar. The other side is used to determine the width of flat bar.



E-Z Gage II Hook Rule. Etched numbers and lines resist ever wearing away.

"I have my hook rule hung by the stock rack where it is quite handy," Wolfgang says.

The hook rules are made of 14 gauge, 304 stainless steel suc-

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cessfully resist rust even in this damp Northwest climate. All numbers and lines are actually laser-etched into the tool and will hold up to use much better than the painted lines and numbers and found on most tools.

Wolfgang said that he developed his series of protractors to simplify laying out the legs for floor lamps and then found it to be very useful in many other situations, including railing and

handrail layout. He credits it for being very accurate when laying out angles for fabrication, blacksmithing, and woodworking.

"The large diameter makes it easy to lay out angles accurately with 1/4-inch increments," he said.

"Cool Tools"

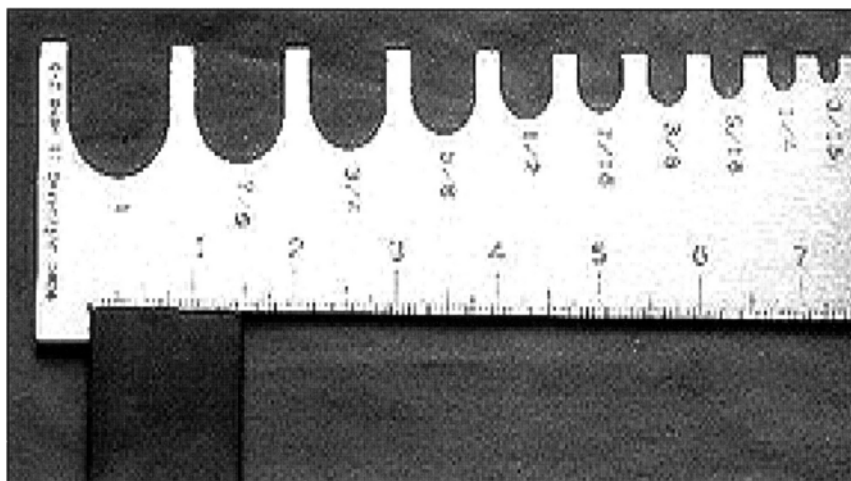
(<http://www.wolfgangforge.com/Cool-Tools.html>) is a new section of my website devoted to those of us who work in blacksmithing and other crafts," Wolfgang said.

He will be adding new Cool Tools (© 2006) from time to time, so check back occasionally.

Some of the tools in the works are: a single-person, manual rail bender/straightener and a less expensive, more versatile roller/ bender that can be easily fabricated using off-the-shelf parts and a few that are laser cut.

Back side of the hook and rule gauge. Used to measure flat stock, it is also ideal for scratching those hard-to-reach places. extra.

I encourage readers to let me a know if there is a specific tool that they would like to have developed.

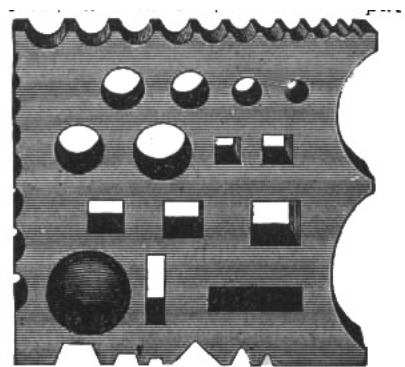


Back side of the hook and rule gauge. Used to measure flat stock, it is also ideal for scratching those hard to reach places.

The E-Z II Gage is \$15.00 each plus shipping.

The protractor comes in three sizes to meet most needs: E-Z Pro II - 24" diameter (\$75), the Jr - 12" diameter (\$35) & the Mini - 6" diameter (\$15). Shipping is extra. Shipped orders will include a sheet listing the features of this unique and tremendously useful tool.

So far nearly 50 protractors have been sold and Wolfgang said he has had a 100% positive feedback. Reach Wolfgang Forge at the web address listed above or by calling 503-429-7342.



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Blacksmithing Workshops and Classes:

Peters Valley Craft Education Center
19 Kuhn Rd., Layton, NJ 07851 (973)948-5200
pv@warwick.net www.pvcrafts.org

Academy of Traditional Arts
Carroll County Farm Museum
500 South Center St. Westminster, MD 21157
(410)848-7775 (410)876-2667

Touchstone Center for Crafts
R.D.#1, Box 60, Farmington, PA 15437
(724)329-1370 Fax: (724)329-1371

John C Campbell Folk School
One Folk School Rd.
Brasstown, NC 28902
1-800-365-5724 www.folkschool.com

Brookfield Craft Center
286 Whisconier Road
P. O. Box 122
Brookfield, CT 06804-0122
203.775.4526

Open Forges

We are looking for members who are interested in opening their forges up to members as an open forge. This does not have to be a weekly forge as is Marshall's the others can meet once or twice a month. Please contact, Larry Brown, Editor.

We want to encourage all to join us at:

Monday Night Open Forge in N.J.

Marshall Bienstock is hosting an open forge in his shop at 7 pm almost every Monday night (Please call ahead on holidays to make sure , (732)780-0871)

Open Forge in Long Island

Sunday from 10:00 am to 6pm.
Starting the 1st Sunday in November until the end of April. Please call ahead to confirm and get directions. Ron Grabowski, 110 Burlington Blvd. Smithtown, NY (631) 265-1564
Ronsforge@aol.com

If any members have a forge at home and work in the evenings or weekends and want to open it up to help a few local guys, let me know, Larry Brown, editor, as we get requests from members who have a hard time traveling to some of the open forge locations.

Business Members

We would like to thank those who joined with our new Business Membership category .

Business dues are \$40

Please show them our support

John Choborda, Pine Barrens Forge
231 Morrison Ave., Hightstown, NJ 08520
609-443-3106 JChob@earthlink.net

Grant Clark, GWC Forge
PO Box 158 Perrineville NJ 08535
732 446-2638, 732 446-2638

Eric Cuper Artist Blacksmith
109 Lehman Lane, Neshanic Station, NJ 08853
908 642-6420 ericcuper@msn.com

Bruce Hay, Jr.
50 Pine St., Lincroft, NJ 07738

Jayesh Shah, Architectural Iron Design
950 S. 2nd St., Plainfield, NJ 07063
jay@archirondesign.com

Louise Pezzi, Blacksmith
1241 Carpenter St
Philadelphia, PA 19147
215 336 6023 pezziandjr@gmail.com

Search

I am looking for a #250 fisher anvil in good shape. If you have one for sale or run across one, contact me; Larry Brown, NJBA Editor. (718) 967-4776

BLACKSMITH TOOLS FOR SALE!

John Choborda

Has a large selection of tools for sale.

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EXPIRATION DATE _____

Join ABANA or Check out other area chapters!

Northeast Blacksmiths Association

Northeast Blacksmiths holds its meets twice a year at the Ashokan Field Campus in New York State.

The Ashokan campus is located in Olivebridge, N.Y., several miles west of Kingston, N.Y. The meets are held the first weekend in May and in the first weekend in October every year. The main demonstration is in the blacksmith shop and there is a "Hands On" workshop for beginners. A main demonstrator is brought in for each meet, food and bunk-house style lodging are provided as part of the cost of the weekend long meet.

Contact : Tim Neu

to register for hammer-ins

or subscribe to the newsletter;

Tim Neu, Ashokan Field Campus,

447 Beaverkill Rd.

Olivebridge, N.Y. 12461 [914]657-8333

For more information check out the web site; <<http://nba.abana-chapter.com/>>

Join The Pennsylvania Blacksmiths Association!

Name _____

Address _____

City, State, Zip code _____

Home / work Phone # _____

E-mail (optional) _____

New Member ☐ Renewal ☐

Do you have any particular skills (welder, accountant, carpenter, doctor) that may be helpful to the group or membership?

Suggestions for PABA demonstrations

What is your skill level?

☐ Beginner ☐ Intermediate ☐ Advanced ☐ Professional

Membership paid by ☐ Cash ☐ Check # _____

Send your completed application with \$ 20 (one year dues) to;

PABA Treasurer, Buzz Glahn

1667 Wyomissing Rd.

Mohnton, PA 19540

(make Checks payable to PABA)

PABA Membership Application

Membership is from Jan. 1 — Dec. 31

New Jersey Blacksmiths Association
Attn: Larry Brown, Editor
90 William Avenue
Staten Island, New York 10308



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How to Join or Renew your Membership in NJBA:

NJBA Dues are \$20 per year.

NJBA Business Dues are \$40 per year

Please make your check out to: "NJBA"

Please mail checks to:

NJBA, P.O. Box 224, Farmingdale, NJ 07727-9998

Please include payment with the information listed below. You will receive a postcard confirmation of your membership, and will receive a newsletter within a month.

NJBA's "year" runs from June to June. If you join mid-year, the postcard will offer a prorated dues option which will then allow you to extend your membership till the following June. The following information will be listed in a roster available to other members.

Name _____ Home Phone _____
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City _____
State _____ Zip _____
E-Mail _____ Skill Level (optional) _____
Comments _____