



N.J.B.A. Newsletter

NJBA Volume 6, Issue 1 August 2001

It's the Mid-Summer Heat!

Well summer is half over and I'll admit it's hot, but I hope there are some forges burning out there. This years election meeting was held during the Cold Spring Village meet in June. Doug Learn has stepped down as director and Bruce Hay has stepped in, we now have three Bruces on the board.

Bruce Freeman has set up a web page with links to various pages on the ABANA Web site (<http://www.monmouth.com/~freeman/NJBA/abanaweb site.htm>), It's easier to navigate than the site itself, so if you are on the web and you have a favorite spot on the ABANA site, look for it on Bruces' link page, if you don't see it let him know I'm sure he'll add it. You can get to Bruce's page from our NJBA web site

Remember to send in your renewals!
If you did not get one contact
Bruce Freeman, Membership Chairman

Upcoming events for 2001

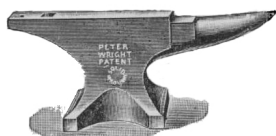
Remember most of our meets have a "Iron in the Hat" drawing, be sure to bring something.

September 1; Fund Raising Pig Roast at Peters Valley, see this page for details and directions

October 13; Meet at Mike Walker's in Elton, Md. See starting page for details

November; Possible meet at Peters Valley

December; Holiday Party!



First Annual Pig/Iron Fest

At Peters Valley

Help us help the Blacksmith Shop
in Peters Valley

Join us on September 1st at 1:00 pm

There will be a pig roast, Hamburgers, hot dogs, salads, beer, live music, an auction and demonstrations. Advance Reservations are required.

- Tickets \$30 before August 15th
- Tickets \$40 after August 15th
- \$5 for kids, 6 and under are free!

Payments should be sent to;

Peters Valley Blacksmithing
19 Kuhn Rd.

Layton, NJ 07851

Payment by check, credit card or money order
are accepted. Make checks payable to:

"Peters Valley"

For more information please contact;

- PV Blacksmithing (973) 948-2393
- crowleymaegan@hotmail.com
- yllwbrnfrm@aol.com

**Directions to Peters Valley Craft Education
Center are on the next page**



The NJBA Web Site!

The NJBA Web Site is up and running at:

<http://njba.abana-chapter.com/>

Bruces' links to the ABANA site;

<http://www.monmouth.com/~freeman/NJBA/abanaweb site.htm>

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Directions to Peters Valley;

Directions:

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.

Official NJBA Address

NJBA
P.O. Box 195
Howell, NJ 07731



ABANA Correspondence

I am now posting the ABANA Correspondence, the Presidents Message and the Chapter Liaison Message, etc. on the web site. It is accessible through;
<http://njba.abana-chapter.com>
Anyone who wants a hard copy please contact me.
This will provide more space in our newsletter.

NJBA Board of Directors

Marshall Bienstock, June, 2003

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Tim Suter, June, 2002

1112 Ladner Ave., Gibbstown, NJ 08027

856-423-4417

Greg Phillips, June 2002

(845) 457-5671, Acorn Forge, 937 Route 17k,
Montgomery, NY 12549 suresign@frontiernet.net



MEET AT MIKE WALKER'S

ELKTON, MD

OCTOBER 13, 2001

8:00 -9:00 ARRIVAL, SHOP TOUR, SOCIALIZING

9:00- 12:00 DEMONSTRATION BY MIKE WALKER ON MAKING LARGE LEAF FORMS, AND OTHER SMITHING TECHNIQUES

12:00 - 1:30 LUNCH, IRON IN THE HAT, VIEWING OF MIKE'S PHENOMENAL STONE WORK ON HIS HOUSE

1:30 —3:30 DEMONSTRATION BY KERRY RHOADES, DEMONSTRATION AND EXPLANATION OF HIS CREATIVE APPROACH TO DESIGN IN DEALING WITH CLIENTS.

PLEASE BRING LOTS OF STUFF FOR THE IRON IN THE HAT. TAILGATING.

A NOTE FROM JOSHUA KAVETT:

"The first time I went to Mike Walker's shop, I was totally overwhelmed by his enthusiasm, and creative spirit. His shop is every smith's dream.. I could not imagine that any other tool would be needed for any blacksmithing job. The shop alone is worth the trip down. Bill Ker shared my amazement that day. To top off the blacksmithing part, we walked up to Mike's house to see his "world famous" stonework that he has done in creating his "castle". It has to be seen to be believed. This meet will be worth the time and the drive. This is the first time Mike is opening up his shop to outsiders. I hope that everyone will take the time to visit. I will be worth it."

Directions: Start by going to the bottom of the Turnpike or 295, cross the Delaware Memorial Bridge, and go about 8 miles on 95 to Exit 1-B. Then proceed with the directions on the map. (Following Page)

Driving time from Marshall's shop in Howell is about two hours.

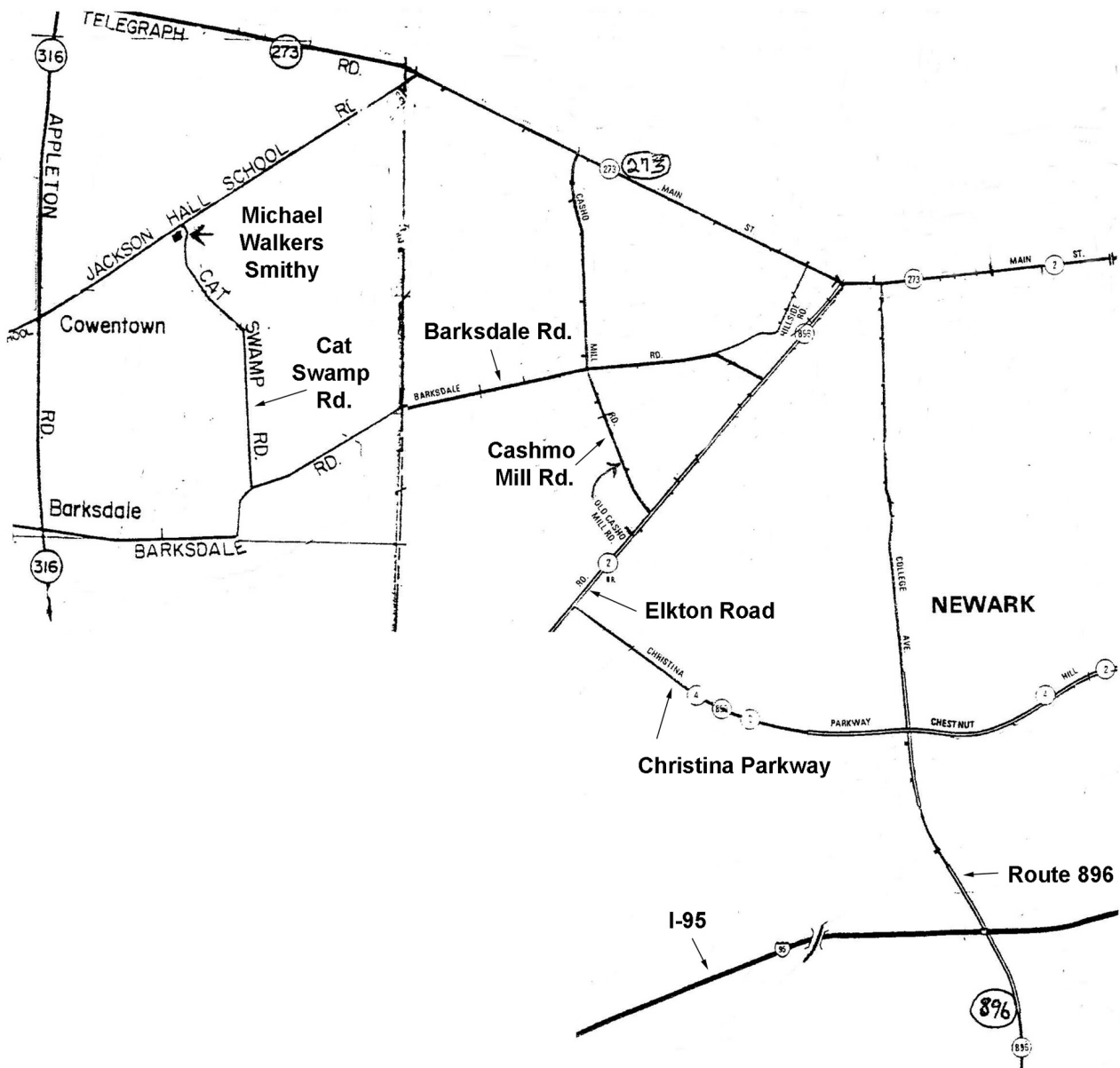
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Start by going to the bottom of the Turnpike or 295, cross the Delaware Memorial Bridge, and go about 8 miles on 95 to Exit 1-B. Then follow directions below

DIRECTIONS TO MICHAEL WALKER'S SMITHY

95 South to exit #1-B 896 North. After exit ramp, travel .7 miles to 3rd light, turn left onto Christina Parkway (896 North). Travel 1.4 miles to 3rd light, turn right onto Elkton Road. Travel .4 miles to 1st light, turn left onto Casho Mill Road. Travel .5 miles to 1st light, turn left onto Barksdale Road. Travel 1.4 miles, turn right onto Cat Swamp Road. Travel 1 mile. The House is on the left at the corner of Cat Swamp Road and Jackson Hall School Road. Address is 644 Jackson Hall School Road, Elkton, MD 21921. Phone 1-410-398-1785.

95 North to exit 109B (Newark, DE). After leaving exit ramp you are on MD 279 which becomes DE 2. Travel 2.6 miles to 7th light and turn left onto Casio Mill Road. Follow above directions from Casho Mill Road.



Report on the NJBA

Demonstration Trailer

by **Bruce Freeman**

As you are probably aware, NJBA is putting together a trailer of tools and equipment to bring to meetings and demonstrations. Marshall Bienstock donated the trailer and much time, as has David Macauley and others. Recently I started work on a toolbox to mount on the fender of the trailer to hold hammers, tongs and other tools. Marshall donated the box, an old electrical box, and did all the necessary welding.

We won't quite finish the job -- it won't be mounted on the fender -- but the box itself will be ready for the Monmouth County Fair which will occur just before this newsletter goes to press. By the subsequent event we hope to have the box mounted properly. Depending upon need, we may put together one or two more such toolboxes.

From David Macauley

We are still looking for donations of tools for the trailer, some items that are still needed;

1. Another anvil 150 lbs or less
2. Another small leg vice
3. Another small barrel for a quench bucket.
4. Forging hammers with a cross peen. We have plenty of ball peens but no cross peens.

Non-NJBA events in the area

HUNTERDON HISTORICAL MUSEUM

Blacksmiths open house and tool swap

Hunterdon Historical Museum

56 Main Street, Clinton, NJ

Saturday, September 15, 2001 Rain or shine

They have a newly refurbished shop and facility.

There will be a blanket style tool swap and sale and coal forges will be available for guest demonstrators and people desirous of a little forge time.

This event is free for participating blacksmiths, registration required. Please call Adam R. Howard, Blacksmith, (908) 735-4101

Events that have requested

demonstrators from NJBA

If you visit any of these events you might find NJBA members demonstrating, or if you want to get involved contact David Macauley : 732-420-4792

<drmacauley@att.com>

- South Street Sea Port in NYC, Date not set
- Crosswicks Village 9/22/01 in Hunterdon County
- Monmouth County Fair 7/25 - 7/29/2001, Just past see report on page 7.
- Buckelew Day : 8/11/01 Jamesburg
- Howell Day - October 13th.
- Sussex County Horse and Farm Show: 8/301 - 8/12/01
- Wainford Mill, Sunday, October 7th

Non-NJBA events outside our area

• Northeast Blacksmiths

Fall 2001 Meet

The Northeast Blacksmiths are hosting a meet October 5,6 & 7 at the Ashokan Field Campus outside of Kingston, NY. The demonstrator this time will be Scott Lankton. For more information on this weekend event contact: Tim Neu, Ashokan Field Campus 447 Beaverville Rd., Olivebridge, N.Y. 12461

[914] 657-8333

Or check the web site at;

<http://neba.abana-chapter.com/>

- Southern Ohio Forge and Anvil Presents the SOFA Quad –State 2001 September 21-23. Miami County Fair Grounds Troy, Ohio. For information write or call: SOFA Quad-State 2001, P.O. Box 24308 Huber Heights, OH 45424-0308 Or call (937) 237-2200

• Delaware Agricultural Museum Wrought Iron Conference

Saturday and Sunday, September 8 and 9, 9 am to

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4.p.m. 866 North DuPont Highway, Dover, Delaware, 19901 (302)734-1618 e-mail DAMV@do1.net

Report on the May 19

Membership Meeting

by Bruce Freeman

The May meeting was held at Longstreet Farm (in Holmdell Park, Monmouth Co., NJ). Jeff Morelli was present with his forge and anvil, demonstrating making extensible coal tongs ("lazy tongs"). He also had a number of his other products on display - knives, a pipe tool, a striker, etc.

I had borrowed Marshall Bienstock's display of the stages in making a spoon, and had laid it out where people could see it. I did some work on one such spoon that I had previously begun, but yielded the forge when Grant Clark needed it.

Grant went to work finishing up some brackets for a fire engine. These brackets apparently hold a pole in the horizontal position. The is generally S-shaped, with a fork on the upper end. Grant made a tool to help make the S-curve uniform between the several brackets.

This meeting was to have been the NJBA elections meeting. Attendance was quite low, apparently due to late delivery of the newsletter. (Norm had only received his copy that morning!). Accordingly, the election was postponed until June.

However, the demonstrations were well received by the visiting public, and Norm invited a couple children into the shop to crank the blower handle while Grant or I were forging. Overall, it was a worthwhile day.

Report on the

June meeting at CSV

by Bruce Freeman

Saturday, June 16, I loaded my 1835 costume and, some tools and iron into the car. Bruce Hay and Larry Brown showed up at my door at about 7:40 am, and we loaded their stuff into the car and headed down the Parkway to Historical Cold Spring Village ("CSV"). After a couple hour's drive, in which Larry regaled us with stories of the bad old days, we arrived at CSV a

little before 10 am. Stopping at the front parking lot, I went in to find where we should go, and immediately ran into Jerry Goldman, the blacksmith at CSV. He directed us around to the back road.

When we got back to where the action was, we found two trucks and the NJBA trailer. The trucks were those of Mike Mills and Tim Suter, both of whom had brought forges and other equipment. (Tim had generously brought two forges, at least two anvils, a leg vise and slack tubs.) David Macauley had towed the trailer down the night before. Out front was a table with a few examples of peoples' work, and with our NJBA sign (made and donated by Greg Phillips) hung on the front, looking quite spiffy. David also put out some NJBA brochures.

David, Mike, along with his son Mike, all in period costume, already busy at the forges when we got there. Bill Futer was there in his NJBA T-shirt with the most jury-rigged forge I've ever seen. It was a shallow square tin pan atop a hibachi atop a riveter's forge blower all mounted to a collapsible saw horse -- wobbly but effective. It just shows you how simple a forge can be.

I quickly changed into period costume and fired up one of Tim's forges. We've been remiss assembling tools for the trailer, so I had to borrow a poker from Bill to get my fire going. I got a piece of rebar from the stock in the trailer to use to make a poker, but Luke stepped in to do the job for me. Luke turned out a lovely poker with flat, pointed, re-curved tip and a lovely loop handle. It was typical of the quality work Luke (whose mentor was Frank Turley) displays. He donated it to the trailer tool kit.

By this time the fire was going fine in my forge. I returned to a project I'd started another time - a spoon, based upon Marshall's demo (written up a few issues ago in this newsletter). Marshall has put together a dandy board showing each step in the process of making this spoon. Both Bill and Jerry took photos of this board. I've already had success at this project twice before, so felt fairly confident. I had already completed the round flat that is later dished to become the bowl, so I cut the blank off the rest of the bar in preparation for drawing out

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the handle. (Lacking a hardy, I did this against the sharp edge of the anvil - worked just fine.)

Finding my tongs too loose to grip the flat of the spoon, I took a tip from David and tightened up the tongs to fit the project. Then I drew out the handle of the spoon, leaving a lump toward the end for the embellishment, as in the example done by Marshall. After completing the handle to my satisfaction, except for fine details, I flipped the spoon around and dished the bowl against a stump, kindly provided by Jerry - a trick that impressed the audience.

Although my progress was slow, before the end of the day I'd finished this spoon and had started another project. During the course of this work, a reporter from the Cape May Herald shot a lot of pictures of me and some of the others -- always good publicity.

David, meanwhile, was making tongs for the trailer. Bill seemed to be making a keychain. I missed completely what the others were working on. (It's hard to demonstrate and observe at the same time.)

(Editors note, Larry Brown made a punch and a chisel for the NJBA trailer out of some S-7 he donated and Mike Mills and son were making curved BBQ skewers for a customer).

At noon I called the business portion of the meeting to order. In addition to the members listed above Mitch Swirsky and Dan Cruzan were present. The only item of business was the election. Doug Learn, who is now the ABANA president, had previously told me that he would be dropping off the NJBA board for lack of time. Therefore the directors up for reelection were Marshall Bienstock, Larry Brown, Jon Folk, Joshua Kavett, Jeff Morelli, Nate Pettengill, Steven W. Rhoades and Bruce Ringier. I called for self-nominations. After some hesitation, Bruce Hay put in his name. This slate of nine candidates was elected unanimously. (The "Bruce's" now number three on the board, which should make the minutes of the board meetings even more interesting.)

After the election we adjourned for lunch. CSV had provided lunch tickets for the demonstrators, so most of us headed over to the booth and were provided a small but satisfying meal. After lunch I wandered around the village to see what I could see. I saw a great little collection of tools, including some clever pipe wrenches, and a collection of farm and kitchen apparatus, the former being a particular interest of mine. (I have a couple of the cherry pitters they showed there.) There was a collection of miniature tractors on a table, as well as a collection of tractors rather too large for the table-top. I bought some chances on a John Deere. (Why not?)

I met Shirley Stefanovicz, the CSV Program Coordinator, who said we were welcome back on a weekend in September to October, after their regular season ends. I also met Dick Newkirk, contact person for the "19th Annual South Jersey Gas Engine Show" at Cowtown on Oct. 6-7, who said we were welcome to demonstrate there. The NJBA board will discuss these and other ideas for upcoming meetings.

Around 4 pm, I changed back into my civvies. Then, while munching on one of the large soft pretzel thoughtfully provided in quantity to the blacksmiths by some young lady, I said my good-byes to Jerry and the others, gathered up Bruce and Larry, and headed home. A most satisfactory day.

Report on the

Monmouth County Fair Meet

By David Macauley

The Monmouth county fair went flawlessly this year. We thought we might have problems with lighting, but we were able to use a propane lamps without any problems. The small forge worked wonderfully. The chimney that Bruce Freeman rigged for it needs some more work, but what he put in place worked. We were able to vent most of the smoke up the chimneys this year.

At the meeting on Friday we had present Alex Burke, Marshall Bienstock, Bruce Freeman, David

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Macauley, Daniel Rice and his son David. Did I miss anyone? We primarily made tongs this year.

We fabricated a pair of 5/8" box jaws, 1/2" round and a pair of slotted flat tongs. I also donated some files, punches, stock, tape, hammers, and some other things. The tool box Bruce and Marshall salvaged worked great. Now we need another to hold all of the tools we are collecting. Lighter weight hoods would be very valuable. I would like to add a special thanks to Daniel and David who helped with the setup and tear down of the demonstration site

Win A Power Hammer!

DUSTY, the sequel to the original Appalachian Power Hammer (RUSTY), is finished. The ABA will sell raffle tickets beginning May 5, 2001 at the Cedar Lakes Blacksmith Shop. The drawing will be held at Cedar Lakes Blacksmith Shop on October 20, 2001 in conjunction with our Fall Conference. DUSTY is a scaled up version of the original RUSTY.

Unlike RUSTY, DUSTY has all new parts. Dusty comes with "hands-free" spring dies for fuller and tenon work. "Hands-free" dies lock into the 1" slot on the horizontal anvil brace. Bolt on hammer dies (pictured) are flat. With this flexibility, you will be able to customize several dies for your projects. Center column is a hollow chamber which allows user to fill with sand and lead weights.

SPECIFICATIONS:

Hammer Weight: 50#, Overall Weight: Approx. 1000#, Motor: 1.5 HP, 115/208-230 volt (US), single phase, TEFC, Overall Height: 5' 6" (at pivot)
Base Plate: 25" w. x 38" l.

No warranty, expressed or implied, is provided by the Appalachian Blacksmiths Association for this power hammer. No Delivery.

Do not send cash

Before ordering, check with your ABANA chapter to see if it is reselling tickets. Do not order tickets before May 15, 2001. Mailed-in tickets will not be received after Wed., October 10, 2001.

Raffle ticket information:

Tickets cost \$1.00 each.

To order, write to;

Appalachian Blacksmiths Association

c/o Josh Schlicher, President

P. O. Box 1076

Marietta, OH 45750

Make check payable to "ABA--DUSTY".

Check it out on the web site at:

<http://hometown.aol.com/anvilwork/rusty.html>

You do not need to be present at the drawing to win. However, the winner will be responsible for picking up the power hammer at Cedar Lakes Park, Ripley, WV and transporting it. Drawing will be held at 1:00 pm, Saturday, October 20, 2001.

Questions on Iron Smelting

from the Forge list with answers

from Bruce Free-

man

Daniel,

Historically, there were two basic processes (and LOTS of variations). Take iron ore, burn with charcoal (and a little limestone as flux) in some kind of closed furnace, a puddle of high-carbon iron is formed. Such iron is essentially "cast iron" and has limited uses. Where malleable metal was needed, it was useless. No good for weapons. No good for the blacksmith at all.

Keep the hot puddle of high-carbon iron exposed to air and the carbon (and some iron - inefficient!) burns out of it. As it does so, the pure iron will tend to form a mushy mass, mixed completely with slag. What I'm describing is the general sort of bloomery process. Lift this 200# "bloom" out on a pole and take it to a trip hammer (think: 700# head) and hammer the slag out of it. Result: wrought iron (very low carbon, full of slag which is in the form of fine filaments from the drawing out process under the hammer).

Take iron ore, burn with charcoal (and limestone) in a vertical "blast" furnace. A pool of molten iron forms at the bottom, with a pool of slag on top of it. Tap the slag off the top of the iron. Tap the iron off the bottom of the furnace, into ladles, or run it onto a sand floor with troughs branching off like. The individual chunks from the latter

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process are the "pigs", hence "pig iron" which is nothing but cast iron, brittle and high in carbon. If you take the iron off in ladles, you can pour it into sand molds for cast iron products. In this case there are a number of tricks that can be done to alter the properties of the cast iron, depending on need. "Chilled iron" and "malleable iron" are the result of two such tricks. Of course, this stuff is still just cast iron, of no use to the blacksmith.

There were any number of processes to convert cast iron to wrought iron. One of the better approaches was the reverberatory furnace, in which pig iron was remelted without direct contact to the fuel. To make a long story short, the carbon was burned out of the pig iron, producing wrought iron, complete with slag, which was puddled and hammered as in the bloomery process. This was a more efficient method than a bloomery, but still was manual labor. Attempts were made to automate this process, but it wasn't until the Kelly (aka Bessemer) converter was perfected that any real progress was made.

So far we have only "iron": high carbon cast iron, and zero-carbon wrought iron. Steel, with its superior strength, requires carbon in limited quantities. Again there were many approaches to producing this. One was blister steel. This was billets of wrought iron cooked in charcoal until it picked up carbon. (Blacksmiths do this all the time. We call it "burning" the steel!) Iron picks up carbon and the surface blisters. By appropriate hammering, a fairly homogeneous billet of medium to high carbon steel can be produced.

This wasn't good enough for a watchmaker in England who needed high quality, high-consistency, high carbon steel for watch springs. He took blister steel and melted it in a crucible to thoroughly homogenize it. Hence "crucible steel". See specific answers to your questions offset by ">>>>>", below.

Bruce Freeman

NJ

>>> Daniel Crowther <smithy@nycap.rr.com>
07/17 3:45 PM >>>

Ok here's the big questions,

I've been interested in smelting & casting iron for awhile so I've been doing some research on the internet about furnaces etc. One of the biggest issues I seem to be having is one of definitions, terminology, and an over all process of what begets what. Many of the sites include these things but they don't compare/contrast them.

Here's what I think I know. :) Please correct and add detail.

Cast Iron - High carbon content (above 1%), brittle, created by re-melting a bloom and pouring into a mold?

>>>>No. Once a (low carbon) bloom was laboriously produced, you would NOT use it for cast iron. You could, but you wouldn't.

Bloom - Heterogeneous carbon content, spongy porous mass, created by smelting ore

>>>>No. A bloom is low-carbon, a mix of pure iron and slag (iron silicate), created by puddling, as described above.

Wrought Iron - Iron with bands of silicate slag inclusions, ductile, created by repeated heating and hammering a bloom.

>>>>Yes.

Crucible Steel?

>>>>>See above.

Ok, what other related metal definitions are important to understand while I'm reading these articles? If I melt down mild steel (A36) scraps and pour it into a mold do I still have "Cast Iron"?

>>>>>No, you have "cast steel" with essentially all the same properties of steel. However, casting will produce a different steel properties than forging. Forged steel is usually better, but for reasons I won't go into here.

Can I melt it down into an ingot and hammer it out into a usable form again or will it crumble like Cast Iron?

>>>>>Yes, since it's still steel, it's malleable (hammerable). No, it won't crumble (unless hot-short or some other such complication).

Daniel Crowther

Oak & Acorn Ancient Metalcrafts
Valley Falls, NY

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

Coal

Coal is now available through Alex Parubchenko at his shop in Trenton. Please contact Alex or John Choborda at the shop, Phone # (609) 396-9583.

Open Forges

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)

Monday Night Open Forge

In Orange County

Greg Phillips will be hosting an open forge in his shop in Orange Co. NY. For more information Contact: Greg Phillips, Acorn Forge, 937 Route 17k, Montgomery, NY 12549, (914) 457-5672, Suresign@frontiernet.net

Cheap !!!

I can't locate an engine, so I now have parts to an old Lincoln engine driven welder (2 cylinder, 250 amp) for sale or free to someone who can pick the

Business Members

We would like to thank those who joined with our new Business Membership category
Please show them our support

Ginty's Welding Service, Inc

2 Lee Mack Ave., Danbury, Conn, 06810

Timothy Miller, Artist Blacksmith,

Bayport, Long Island, NY (631)419-1185

Marshall Bienstock

663 Casino Dr., Howell, NJ 07731
(732) 938- 6577, (732) 780-0871

www.artist-blacksmith.org

It may be the only address you need

The Traditional Metalsmith

Blacksmithing: Illustrated & Explained

A Quarterly How-To Journal

New! **Blacksmithing Basics** New!

From Fire to Forge to Finish

Next Issue: Rails, Part 1

The cover of 'The Traditional Metalsmith' journal, Volume 1, Number 1, April 2000. It features a central illustration of a blacksmith working at an anvil, surrounded by various blacksmithing tools and finished metal pieces. Text on the cover includes 'The Traditional Metalsmith', 'Volume 1, Number 1', 'April 2000', 'A Quarterly How-To Journal', 'New! Blacksmithing Basics New!', 'From Fire to Forge to Finish', 'Next Issue: Rails, Part 1', 'Step-by-Step Process!', 'Design & Layout', 'Architectural Ironwork', 'Floral & Geometric Patterns', 'Forged & Mechanical Process', 'Patterns in Every Issue!', and 'Annual Subscription (Includes This Year's Back Issues) Please mail \$28.00 to: The Traditional Metalsmith 1229 Bee Tree Lake Road Swannanoa, NC 28778 www.traditionalmetalsmith.com'.