



N.J.B.A. Newsletter

NJBA Volume 15, Issue 4 1/22/11
<http://njba.abana-chapter.com>

Editors Soapbox

Hi, As editor I would appreciate some help in writing up events for the newsletter. We don't have much listed here but, we have some events coming up that are good opportunities for fellowship and to swing a hammer, so come out and enjoy.

Larry Brown, editor

We need some more activity from our members!

Recent events in the lives of some of our directors have made it hard for NJBA to be all it can be. We need more people to help out other than the same few doing everything. It would be great if we could have some of you helping scheduling meets that are local to you. You can see we do not have much to list here. Please talk to one of the directors to find out what you can do to help!

We are also looking for members who have a pickup and would be interested in helping bring the NJBA trailer to meets. If you are interested in helping please contact one of the board members listed on page 2. Larry Brown, Editor

Upcoming events for 2011

Get your 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.

February 5th—Meet at Eric Cuper's shop in Easton, PA. More information on this page and page 3.

Your membership expiration year is printed after your name. If it is 2009 or 2010 please rejoin before you are dropped from the mailing list!

Blacksmithing Demonstration
Eric Cuper and Daniel O'Sullivan at
Cuper Studios
Saturday, February 5, starting at
9am.

Eric and Dan will once again present a scintillating demonstration for NJBA, PABA, NOMMA, and others. All are welcome!

As always, there will be an Iron In The Hat, tailgating is welcome (try to leave parking spaces in front of the garage doors for tailgaters), and we'll crank up the heat. Coffee and Donuts will arrive at 8:30ish, demos starts at 9ish, lunch and IITH at 12ish, more demos from 1 until 4ish. We usually order out for lunch and request contributions. We will have bleachers but if you have a chair you prefer please feel free to bring it.

Shop address is 1301 Lynn Street,
Easton, PA 18042. Phone 610-438-8694.
Email: www.ericuper@hotmail.com



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The NJBA Web Site!

The NJBA Web Site is:

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

The Newsletter is at:

[http://
members.bellatlantic.net/
~vze25jcc/index.htm](http://members.bellatlantic.net/~vze25jcc/index.htm)

or use the link on the NJBA web site
for the newsletter.

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

Director information not available on line

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Blacksmithing Demonstration Eric Cuper and Daniel O'Sullivan at Cuper Studios Saturday, February 5, starting at 9am.

Eric and Dan will once again present a scintillating demonstration for NJBA, PABA, NOMMA, and others. All are welcome! As always, there will be an Iron In The Hat, tailgating is welcome (try to leave parking spaces in front of the garage doors for tailgaters), and we'll crank up the heat. Coffee and Donuts will arrive at 8:30ish, demos starts at 9ish, lunch and IIITH at 12ish, more demos from 1 until 4ish. We usually order out for lunch and request contributions. We will have bleachers but if you have a chair you prefer please feel free to bring it.

The Demonstrators

Eric Cuper, an NJBA Board member, began blacksmithing at Peters Valley Craft Center in 1996 (which is where he first heard of NJBA). From there he attended Southern Illinois University at Carbondale to receive his BFA and MFA degrees specializing in blacksmithing. While at SIUC, Eric's forged sculptures were shown nationally and won several prestigious awards. His work can also be found in several books on forge work.

Since 2004, Eric has been operating Cuper Studios LLC in Easton, PA. Cuper Studios is an architectural metalsmithing company currently producing railings, lighting, gates, furniture, fireplace accessories, sheet metal work, sculpture, and other house jewelry. Check out www.cuperstudiosllc.com for some of Eric's work.

Daniel O'Sullivan received a BFA from Parsons School of Design, completed a traditional Ornamental Ironworker Apprenticeship followed by Stage Forge at the International School of French Wrought Ironwork in Muizon, France. He taught blacksmithing in County Mayo, Ireland, and worked for an exclusive European metalworking company. Daniel is now proud to be a Local 483 Union Ironworker and is on the Board of the NJBA.

Directions to Cuper Studios

Shop address is 1301 Lynn Street, Easton, PA 18042. Phone 610-438-8694.

Email: www.erericuper@hotmail.com

From NJ: Take 22 West into PA. After you leave the toll booth, stay in the right lane. Take the first right exit immediately off the bridge. Keep right around the exit and turn left at the stop. Follow this road (Larry Holmes Drive) through 2 lights and take the next left onto Lehigh Drive. Continue on Lehigh Drive and Lynn Street will be your first right with my building being the first big off white building with red trim on the right.

From PA: Take Route 22 East towards Easton. Take the 248/ 25th Street Exit. At the end of the exit turn right onto and follow 25th Street heading South. Turn right onto Lehigh Drive. After the intersection with a stop sign, Lynn Street will be the 4th left.

Snow rules. After last year's debacle we need to have a snow rule. If within the prediction it calls for more than 4" inches of snow at 18042, we will have to cancel the meeting so people don't feel the need to risk life and limb to come out. So as an example, 2-4" there is a meeting, 3-6" no meeting.

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Report on the Anvil Repair Workshop, Nov. 14, 2010

By Bruce Freeman

The day was bright and sunny and unseasonably warm. I arrived at about the stroke of 9 AM, which was a little later than I'd planned, as I had brought the donuts and had to get the coffee going. Most of the rest of the gang - over a dozen - was already present. Fortunately, the event coordinator, Bruce Hay, arrived about 10 minutes after me, so I got to heckle him.



But our tardiness made no difference because folks were already busy. Some folks were feeding a roaring wood fire in the fireplace, some were hauling more wood for the fire, some were grinding anvils in preparation for repair, others were setting up work tables for more grinding, etc.

About a week before, Marshall and I had done some preparation for the workshop. We'd set up a fireplace roughly six feet long and three feet wide by stacking cement blocks three high (about 20"). We placed scrap sheet metal as a heat shield inside of the blocks, an inch or two from the blocks, to prevent the

high heat from destroying the cement blocks. We took a 4" flue pipe, crimped one end and put air slots along one side, sank this most of its diameter in the sand along the centerline of the fireplace, and connected it up to ducting that we brought in from a blower at one end of the fireplace. We'd also gathered up a fair amount of wood, mostly the pieces not suitable for splitting into stove wood, and piled it up about 20 feet from the fireplace.



Just as I arrived, Marshall and others brought in the load guard from an old forklift, which they placed over the fire as a gridiron. Two pieces of angle iron were placed over the bottom portion of this guard. This gridiron made it possible to place the anvils over, rather than on the fire.

Three welding stations were set up. Marshall used a metal table inside his shop. Larry

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Brown was at a similar table just outside the shop door. Bruce Hay used the tailgate-lift of his welding truck. When I noted that Bruce had brought his own umbrella to shade him from the sun, but that poor Larry was standing in full sun (quite hot that day), I got a crew to help set up the pop-up tarp from the NJBA trailer to give Larry some respite.



Participants began by grinding their anvils in preparation for repair - mostly on the edges to chase out cracks. When ready, each anvil was placed upright on the fire and preheated to 400° to 500°F. We monitored the temperatures with Tempil crayons and with an IR "gun" (remote-reading thermometer), taking especial care that the horns and heels didn't overheat. As each anvil reached temperature it was taken off the fire and taken to a welding station for repair. If a welding station wasn't



available, we set the anvil on the sandy ground and wrapped it with 1" mineral wool.

Where only edges and corners needed building up, we used Lincore 55 (MIG) with C25 shielding gas or McKay Hardalloy 600 welding rods. Where underlayment was needed to build up bulk, we used McKay Hardalloy 250 welding rod. Where underlayment was needed on a cast-iron anvil, we used nickel rod. Larry had several varieties and used the one he felt was the most compatible. In one case, the face of an anvil needed building up, and a mixture of rods and processes were used.

Copper strips, 1/8" thick were used as dams on edges to help confine the weld to minimize clean-up afterwards. The same trick worked as well for hardy holes, but thin-wall



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copper tubing was not successful in the latter event, as it melted into the weld. After welding, anvils were reheated to 400° to 500°F, and then cooled.

When sufficiently cool, grinding was done to check welds or to finish the edges and surfaces. Across the day I couldn't help admire how like clockwork the whole affair was going. Even the newest members were actively participating, lugging anvils, checking anvil temperatures, etc. There were no deadbeats! There were a few observers, however - folks who were not participating, who did not bring anvils, but came for the camaraderie.

Participants:

Jack Callahan 1 anvil + membership
Bill Barrett 1 anvil
Tom Majewski 1 anvil
Dale Tinsman 1 anvil + membership
Doug Learn 3 anvils

David Markunas 1 anvil + membership
David Macauley 1 anvil + assist
Mark Morrow assist
Jose Torres assist
Bruce Freeman assist
Eric Von Arx assist
Marshall Bienstock 1 anvil (free) was welder
Bruce Hay welder and leader
Larry Brown welder and leader
Our apologies if we missed anyone's name while writing this up.

Damascus Workshop

Damascus workshop of Dec 11 2009
by Mark Morrow

The Damascus workshop of Dec 11 2009
The workshop went very well ,there where 9 participants out of the ten who signed up (see David for the list) (see Tom Majewski for Photos) we had 3 gas forges going and all three of the coal forges.



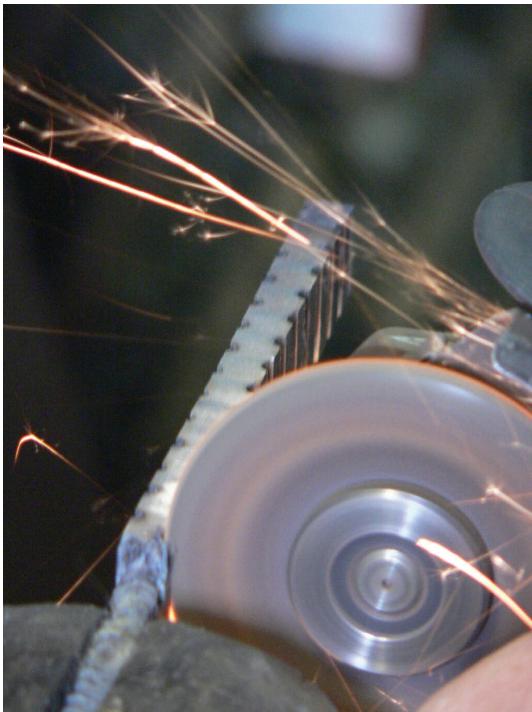
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I brought my air mini press to use in reducing the billets down , this little press was a big hit , I have plans to do a scaled out set of drawing for any who want to make there own , I built mine for less than \$200 . I will let you know when they are available. We worked till about 4pm before calling it a Day, Special thanks to

Marshall Bienstock , Tom Majewski , John Scancella , David Macauley and anyone else I forgot to mention

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Damascus Workshop of Dec 11 2009 by Larry Brown

Mark Morrow started the workshop by discussing the process he used to set up the knife billets. He then went into the types of steel to use and suppliers for them. He had pre-set up the piles of materials and welded handles to them so we were ready to go, to pick a fire or gas forge and get started welding. After the initial welding the billet was forged out to where we could complete the processes used to create the pattern we chose. The forging was then completed using a small press and by hand. We then did a light grinding to be able to check and show the patterns after etching. The etching was done and we all left with a billet we had completed.

Participants were: Bruce Freeman, Tom Majewski, Larry Fogg, Ben Suhaka, Ben Barrett, Joel Weiner, Larry Brown, Mike Cherry, Gary Harrison and Mike Krol

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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
Carrol 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

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.

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

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 Chobrda, Dragon Run Forge
P.O. Box 315 Delaware City, DE, 19706
302-838-1960 jchob@verizon.net

Eric Cuper Artist Blacksmith
109 Lehman Lane, Neshanic Station, NJ 08853
908 642-6420 ericuper@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 pezzinandjr@gmail.com

Mark Balzarette, Blue Sun Customs LLC
124 Greenwood Ave. STE.C Suite C
Midland Park, NJ 07432

BLACKSMITH TOOLS FOR SALE!

John Chobrda

Has a large selection of tools for sale.
Anvils – Forges - Leg Vices—Blowers
Tongs – Hammers
and/or resurfaced Anvils
Call John for prices and availability
(302) 838-1960 cell (609) 610-3501

In Southern NJ contact

Joshua Kuehne, 543 Amos Ave.
Vineland, NJ 08360
(856) 503-5297 iforgeiron88@yahoo.com
In Northern Delaware and Southern NJ,
contact Kerry Rhoades or John Chobrda
Kerry (302) 832-1631 John (302) 838-1960
(609) 610-3501 (cell)

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RESOURCE DIRECTORY

Resources included are from previous NRBA newsletters, ABANA resource guide, and NRBA members. Entries are in alphabetical order. Please notify editor of any errors: lund1907@hotmail.com

BOOKS & PUBLICATIONS

Archetype Publications 6 Fitzroy Square, London, England UK W1P 6DX 00-44-171-380-0800

Artist-Blacksmith Quarterly 1229 Bee Tree Lake Road, Swannanoa, NC 28778
www.artist-blacksmith.org

Artisan Ideas 505 Kimball Avenue, Westfield, NJ 07090 908-232-3755 www.artisanideas.com
E-mail info@ArtisanIdeas.com

Astragal Press (The) PO Box 239 Mendham, NJ 07945-0239 973-543-3045 www.astragalpress.com
E-mail info@astragalpress.com

Blacksmith's Journal PO Box 1699, Washington, MO 63090 573-237-8882
www.blacksmithsjournal.com
No longer published but back issues available as pdf or hard copy thru the web site

Norman Larson Books, Booksmith (The) 5426 Hwy 246, Lompoc, CA 93436 800-743-4766
E-mail larbooks@impulse.net

Centaur Forge Ltd. 117 North Spring St, Bülington, WI 53105 800-666-9175 www.centaurforge.com
E-mail info@centaurforge.com

Chester Book Company 8075 215th Street West, Lakeville, MN 55044 800-858-8515
www.chesterbookco.com
E-mail craftbooks@finney-hobar.com

Dragonfly Enterprises, Randy McDaniel
www.drgnfly4g.com
E-mail rams4g@email.msn.com

Lindsay Publications PO Box 538, Bradley, IL 60915-0538 815-935-5353 www.lindsaybks.com
Slipjack Press 888-822-6657
<http://www.finney-hobar.com/skipjack.htm>

Valley Forge & Welding 280 Franklin Ave, Willits, CA 95490 orders 800-367-5373

SCHOOLS

Schools listed are from the ABANA website: <http://www.abana.org/resources/education/schools.shtml>
The website also lists post-secondary schools and additional schools located in the eastern US.

Arrowhead Forge Shop of Instruction, 7 N. Lobban Ave., Buffalo, Wyoming 82834
307-684-2338, <http://www.arrowhead-forg.com/>
Learn the use of coal forge, anvil, and hand tools.
Classes limited to two students and held monthly.

Dallas Heritage Village, 1717 Gano Street, Dallas, Texas 75215, (214) 421-5141.
Website: <http://www.dallasheritagevillage.org/Blacksmithing.aspx>
Basic & Advanced Blacksmithing for both children and adults. Weekends.

Golden Pheasant Art Metal Shop, Nahum G. Hersom, 3011 Innis Street, Boise, ID 83703 (208) 345-9163. Repoussé design and techniques. Previous blacksmithing helpful. 6 day.

Guild of Metalsmiths, P.O.Box 11423, Saint Paul, MN 55111, website: <http://www.metalsmith.org/>. Fifteen different classes including beginning blacksmithing.

John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902, 1-800-365-5724 or (828) 837-2775, email: karen@folkschool.org, Website: www.folkschool.org Basic skills courses, advanced and specialty classes are offered year round in one and two week courses, as well as some weekends.

Karl Schroen, 4042 Bones Road, Sebastopol, CA 95472, (707) 823-4057,
Email: kschroen@hotmail.com,
Website: <http://users.ap.net/~schroen/>
Two day workshops on traditional knifemaking with a forge, anvil, and hammer.

Mark Aspery School of Blacksmithing, Springville, CA, P.O. Box 523, Springville, CA 3265-0523, (559) 539-3351, Email: blacksmith@ocsnet.net
Website: <http://markaspery.net>

McLellan Blacksmithing, 921 Lawton Ave, Roseville, CA 95678, (916) 786-0560 One and two-day workshops for beginning and intermediate levels of blacksmithing.

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Pilgrim Soul Forge, Grant R. Marcoux, Artist
Blacksmith Shop: 450 West Atlantic Avenue Alameda, CA 94501, Mailing: 1715 Grand Street, Alameda, CA 95401-1221 (510) 865-5328, Email: mailman@grantsforge.com, Website: www.grantsforge.com Basic and intermediate blacksmithing and bladesmithing.

Meridian Forge Blacksmithing School, 36914 Meridian East, Eatonville, WA 98328-9031 (253) 318-1842. Classes for beginner and experienced smith with occasional visiting artist/blacksmith.

New England School of Metalwork, 7 Albiston Way, Auburn, ME 04210, 1-888-753-7502, www.newenglandschoolofmetalwork.com E-mail: dglaser@newenglandschoolofmetalwork.com Guest instructors from April thru September teaching beginning and advanced metalworking skills.

Old West Forge School of Blacksmithing, Tim Middaugh, PO Box 2105, White Salmon, WA 98672, (509) 493-4418, Email: tim@oldwestforge.com Web: http://www.oldwestforge.com/ Classes at the beginning and intermediate level: blacksmithing, tool making, traditional joinery, leaf making and scrolls.

Penland School Penland Rd, Penland, NC 28765, 704-765-2359. Email: office@penland.org Website: www.penland.org Penland School offers courses in iron work ranging from summer sessions of one to two weeks as well as eight week sessions during the fall and spring concentrations.

Pratt Fine Arts Center, 1902 S. Main St, Seattle, WA 98144, (206) 328-2200, http://www.pratt.org/ E-mail: info@pratt.org. Offers a diverse array of classes of interest to the metal, sculpture and blacksmithing community.

T&E Forge, Mark Schramm, 3068 West Lehi Drive, West Valley City, UT 84119, (801) 968-0986, Email: atongmark@aol.com Offers both beginning blacksmithing and forge welding. Friday thru Sunday.

Texarkana College/Bill Moran School of Bladesmithing, 2500 N. Robison Rd, Texarkana,

TX 75599, (903) 838-4541 Ext 3236 website: <http://www.americanbladesmith.com/school.html> Continuing education classes offered from February-October. Scholarships.

The Crucible, 1260-7th Street, Oakland, CA 94607, (510) 444-0919 Email: info@thecrucible.org Website: <http://www.thecrucible.org/> Instruction in fire arts: foundry work, blacksmithing, metalsmithing, jewelry, ceramics, welding and glass.

Turley Forge Blacksmithing School, 919-A Chicoma Vista, Santa Fe, NM 87507 (505) 471-8608, Email: frank@turleyforge.com Website: <http://www.turleyforge.com/> Three-week classes emphasize toolsmithing, hardware, and scrollwork.

White Hart Forge, Daniel Klug, 1821 SE Creighton, Milwaukee, Oregon 97267, (503)353-6695 Email: whitehartforge@yahoo.com Website: www.whitehartforge.com Instruction in basic blacksmithing, advanced techniques and bladesmithing. Two-day classes.

ORGANIZATIONS

ABANA Artist Blacksmith's Association of North America PO Box 3425 Knoxville, TN 37927-3425 www.abana.org E-mail: abana@abana.org Central office: 865-546-7733 Dues are \$55, which includes quarterly publications: Anvil's Ring and The Hammer's Blow. A list of resources available.

ABS American Blacksmith Society, Inc. PO Box 1481, Cypress, TX 77410-1481 www.americanbladesmith.com E-mail: info@americanbladesmith.com Dues are \$60

American Farrier's Association 4059 Ironworks Pkwy, Ste 1, Lexington, KY 40511 www.americanfarriers.org E-mail farriers@americanfarriers.org 859-233-7411 Dues are \$150.

NOMMA National Ornamental & Miscellaneous Metals Association 888-516-8585 www.nomma.org E-mail: nommainfo@nomma.org 1536 Pennsylvania Ave, McDonough, GA 30253 Industry association of light structural and com-

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mmercial ornamental fields. Dues are \$415, which includes industry discounts, technical support, insurance , resource directory, and publications: Ornamental & Metals Fabricator, Fabricator's Journal, and Tech Notes.

TOOLS & SUPPLIES

A Cut Above Distributors 16512 Arminita St, Van Nuys, CA 800-444-2999 www.acutabove.com Grinding wheels/disc, chop saw blades, wire wheels and brushes.

Anhydrous Borax Gerome Weinand-distributor 406-543-0845 gwmknives@aol.com Usually \$2.00/pound, by the pound.

Ashville-Schoonmaker Mica Company
<http://www.ashevilemica.com/>
900 Jefferson Ave, Newport News, VA 523067
757-244-7311 Mica sheets for lamps and mica products.

Atlas Metal Sales 1401 Umatilla St, Denver, CO 80204 800-662-0143 www.atlasmetal.com, Silicon bronze, cda alloy 655, other alloys

Blacksmith Depot Kayne & Sons 100 Daniel Ridge Rd. Chandler, NC 28715
www.blacksmithsdepot.com Tools, anvils, gas forge, Peddinghous tools.

Centaur Forge LLC 117 N Spring St, Burlington, WI 53105-0340 800-666-9175
www.centarforge.com Blacksmith and farrier tools, anvils, Kuhn air hammers, forges, swage blocks.

Cleveland Steel Tool Co 474 East 105th St, Cleveland, OH 44108 800-446-4402
www.clevelandsteeltool.com Manufactures punches, shears and dies.

Colorado Water Jet Co 5186 Longs Peak Unit F, Berthoud, CO 80513-1378
www.coloradowaterjet.com 866-532-5404 Custom metal cutting. Water cut process for steels, alloys, non-ferrous metals.

Des Moines Bolt Co 2300 Delaware, Des Moines, IA 50317 515-265-7581 <http://www.dmbolt.com>/ Square-head, non-galvanized, lag bolts.

Enco Manufacturing Co. 400 Nevada Pacific Hwy, Fernley, NV 89408 800-873-3626

www.use-enco.com Machine tools and general shop supplies.

Galeton Gloves 800-221-0570 www.galeton.com Work gloves - factory direct.

Grizzly Ind Inc 1821 Valencia St, Bellingham, WA 98226 800-438-5901 www.grizzlyimports.com Tools

Hanson Rivets 13241 Weidner St, Pacoima, CA 90065-1318 800-777-4838 www.hansonrivet.com Rivets and more.

Harbor Freight Tools 3491 Mission Oaks Blvd, Camarillo, CA 93011 805-388-3000
www.harborfreight.com Brand name and import tools.

Hossfeld Mfg Co Box 557, Winona, MN 55987 507-452-2182 www.hossfeldbender.com Hossfeld Universal Bender for bending bar stock to angel iron, pipe, tube or conduit to flat; sharp angles to radii.

James Riser Metal spinning CD, lathes, anvils.
www.jamesriser.com

Jere Kilpatrick's Valley Forge & Welding 280 Franklin Ave, Willits, CA 95490
<http://saber.net/jere> 800-367-5373 Shop supplies, tools, jigs, treadle hammer kit, preformed sheet metal components for flowers, candle holders, shovels.

Justesen Industries 1090 Yew Ave, Blaine, WA 98230 800-624-5044 www.justesen.com Firescreen mesh drapery with/without rings

Little Giant 420 4th Corso, Nebraska City, NE 68410 402-873-6603 www.littlegianthammer.com Parts, supplies and services to rebuild Little Giant Power Hammers.

Milwaukee Tool & Equipment Co 13135 W Lisbon Road, Milwaukee, WI 53005
<http://www.milwaukeetool.com>/ 800-729-3878 Tools.

MSC Industrial Supply Co 75 Maxes Road, Melville, NY 11747-3151 800-757-270
www.mscdirect.com Huge catalog of tools.

Northern Tool & Equipment 2800 Southcross Dr W, Burnsville, MN 55306 www.northerntool.com 800-533-5545 Tools

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Plaskolite Inc 800-848-9214

www.plaskolite.com Acrylic sheet, patterned and frosted plastic sheet, lexan, plastic mirrors.

Professional Plastics 1810 E Valencia Dr, Fullerton, CA 92831 800-966-7767

www.professionalplastics.com MT & WA stores 800-223-8360 High performance plastics

R E Caddy Co PO Box 14634, Greensboro, NC 27415 800-213-9224 www.recaddy.com Broomcorn, brooms, broom typing supplies.

Superior Flux Mfg Co 6615 Parkland Blvd, Cleveland, OH 44139 440-349-3000

www.superiorflux.com Anti-Borax label for the blacksmith, forge, & farrier industry.

Sur-Fin Chemical Corp 1530 Spence St, Los Angeles, CA 90023 800-282-3533

www.surfinchemical.com Patinas for iron, steel, brass, copper, aluminum.

Surplus Center 101.5 West 0 St, Lincoln, NE 68501-2209 800-488-3407

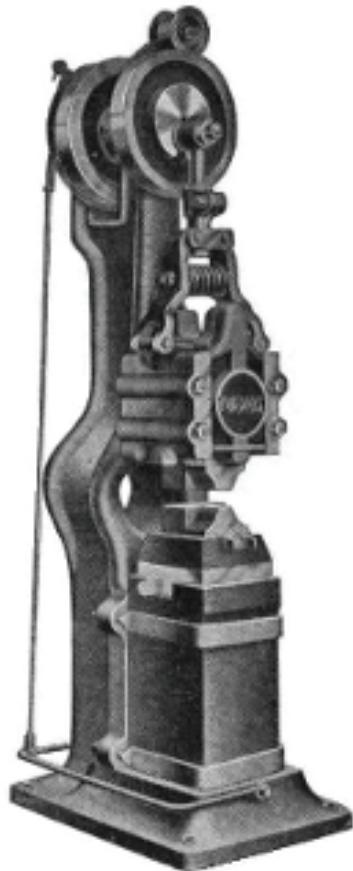
www.surpluscenter.com Hyd pumps, cyl gear boxes, inverters, converters, blowers, valves, compressors, motor bearings, gear reducers, winches.

Tempil 2901 Hamilton Blvd, South Plainfield, NJ 07080 800-757-8301 www.tempil.com Temperature sensing crayons.

TP Tools & Equipment PO Box 649, Canfield, OH 44406 800-321-9260 www.tptools.com Sandblast-

ing and other tools.

The Broomshop PO Box 1182, Grants Pass, OR 97528 514-474-3575 www.broomshop.com Custom brooms woven on your handles.



SHOP THEORIES (Mississippi Forge Council)

Ernies Law of Horizontal Surfaces

"The volume of clutter expands exponentially in relation to the combined sums of the areas of the horizontal surfaces in one's shop."

Pigott's Theory of Work

"The volume of work accomplished in a given period of time can easily be determined by the amount of blood on the floor of the shop"

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Forging a 3 Lb. Diagonal Peen Hammer

Step by Step Instructions by Jeffrey Funk

1. Begin with 5" of 1 1/2" square stock, or forge 3 5/8" of 2" round stock to 1 1/2" square, I frequently use old truck axles for this, or if you have it, 4140 or W-1 will work well.

2. Forge to a slight hourglass shape as viewed from the top, so that the center of the blank is 1 1/2" x 1 1/4," and the piece tapers back to the ends which remain 1 1/2" square. The blank grows in length to about 5 1/4 ". This forging prevents the eye punching from swelling the center too much. (see figure # 1)

3. Make a single center punch mark on the blank top and bottom at 2" from the end of the blank which will become the face, and centered side to side. (see figure # 1)

4. At an orange heat carefully drive a 1/4" x 1 1/8" slitting punch into both top and bottom about 1/8" deep, using the center punch mark to locate the distance from the face, and your eye to find center side to side. The punch must be adequately tapered to allow for easy removal when driven deep.

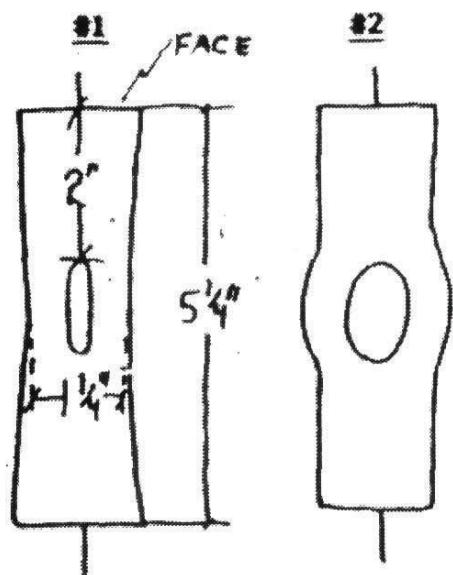
5, Now, at a bright orange heat, drive the punch about 1" into the piece from the top, taking care to cool the punch every four sledge blows, and using coal dust to prevent it from sticking in the hole.

6. Take another heat and drive the punch from the bottom through to remove plug. If punching alignment was good, the plug should come out easily. If it sticks, it may need to be sheared out of the hole with the slitting punch. This is best done at a red heat.

7. At a good orange heat, open the hole with a drift, driving from both top and bottom to keep the hole symmetrical.

8. Also at an orange heat, drive in the final eye drift to nearly the depth required for the final handle fit, from both top and bottom, as with the original drift. If the head is better aligned from either top or bottom, with the drift in it, then mark the head with a center punch near the eye identify that side for later. (see figure #2)

9. Now, heating only the face, either in a coal forge or after some preheat, with a heating tip, upset to about 1 5/8" square. The center of the face is now about 1 3/4" from the front edge of the eye. (see figure #3)



top views

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10. Next, determines the orientation of the peen. If you want a standard cross or straight peen the orientation is clear. But a diagonal, peen which works as a cross peen for the right handed smith will work as a straight peen for one who is left handed, and vice-versa, so you must be careful to mark the head prior to forging to make sure that you forge the diagonal the right way for your purposes. With the face down on the anvil, a right handed cross peen hammer looks like figure #4. A left handed cross peen looks like figure #5.

11. Now, at a bright orange heat, draw out the peen on the diagonal with a gently curved cross peen sledge over the horn of the anvil, or between two drawing dies under the power hammer. I generally forge it so as to come out to be about $3/4" \times 2"$, with a distance from the eye about $2\frac{1}{8}"$ and the overall length of the head about $5\frac{1}{8}"$. Frequently some trimming is necessary, and I grind it to insure that there will be no cold shuts.

12. Using a coal forge or a torch, I slightly upset the peen to refine the form. (see figure #6)

13. Now, drift the eye up to its final dimension, top and bottom, brush, and allow to cool slowly.

14. Grind the face and peen to the desired form.

15. Preheat the entire head to about 800 degrees (no color showing) and then heat the face only slightly above the non-magnetic temperature (light cherry red, or about 1600 degrees) and quench only the face half of the hammer. Then immediately heat the peen and then quench the entire hammer. I try to do all my quenching of hammers in water. Oil hardening steels can sometimes be

quenched in water if heated to substantially less than the critical temperature that would be required for oil quenching, with satisfactory results.

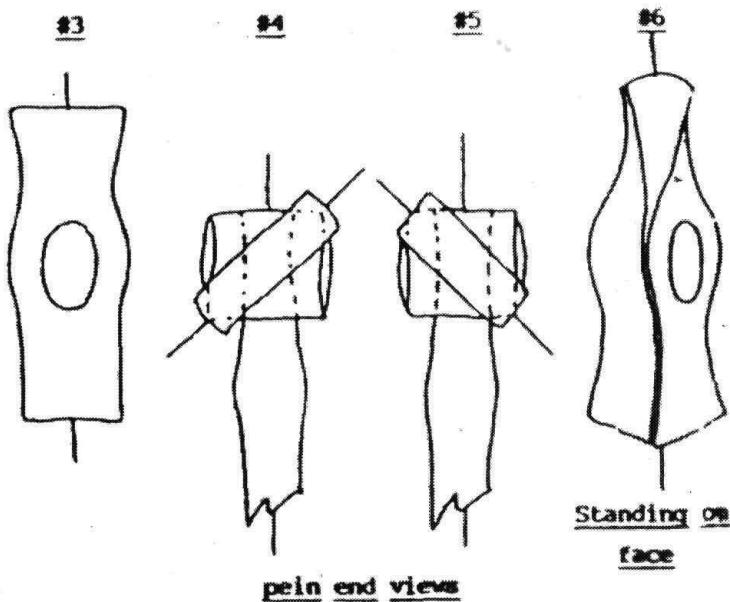
16. After sanding the peen and face with scotch brite or emery paper backed by rubber, preheat the entire head to about 300 degrees (boils water instantly but does not show temper colors) and temper the edges of the face to a light purple with a touch of straw going into the face, and the peen purple on the ends and straw elsewhere. Exact heat treating depends on steel used and personal experiment.

17. Wire brush, mount onto handle, and enjoy!

The following article is reprinted from the April 1993 issue of the newsletter of the Appalachian Area Chapter of ABANA and the July/August 2007, Blacksmith Guild of the Potomac

Jeffrey's Choice of Steel

To figure the length of stock required for a particular hammer weight, simply divide the intended hammer weight by the pounds per lineal inch for the diameter stock to be used (see chart).



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Example: To make a 3-lb. hammer from 1%" stock: 3 lb. \times .638 lb per inch = 4.7"

I generally use truck axles, cat track pins, old coil springs and the like to make hammers and anvil tools. Other useful steels include 4140, 4142, S-1 and W-1. Whether you are certain or not of the steel type, it is useful to test it for harden-ability in different quenching mediums. It is also important to do all forging in as few heats as possible to avoid excessive grain growth and decarburization.

Heat-treating need not be as precise as in edged tools, but take care to get the center of the face suitably hard and the edges safely tempered. Experimentation is required to find what is best for any given steel and hammer size. I generally preheat the entire head to about 800°F and then bring the face to the desired temperature quickly using either the coal forge or the torch. Then I quench only the half of the head just heated and immediately heat the opposite end and then quench the entire head. I temper only the edges of the face to light purple, allowing a bit of straw color to go into the face. The tempering of the peen end depends on the shape. 4

March/April 2008 www.calsmith.org California Blacksmith

Useful Data For Making Hammers			
Bar Diameter		Weight in Pounds/ Lineal inch	
Fraction	Decimal	Round	Square
1"	1.000"	0.223	0.283
1 1/8"	1.125"	0.262	0.358
1 1/4"	1.250"	0.348	0.443
1 3/8"	1.375"	0.420	0.536
1 1/2"	1.500"	0.500	0.638
1 5/8"	1.625"	0.588	0.749
1 3/4"	1.750"	0.681	0.868
1 7/8"	1.875"	0.783	0.997
2"	2.00"	0.890	1.134
2 1/8"	2.125"	1.005	1.280
2 1/4"	2.250"	1.127	1.436
2 3/8"	2.375"	1.255	1.599
2 1/2"	2.500"	1.391	1.773
2 3/4	2.750"	1.683	2.145

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PEEN, PEEN, PEEN,

By Eden Sanders, San Andreas, California

Reprinted from California Blacksmith, No. 07-05, September/October 2007

"The ball peen hammer was originally used to peen riveted or welded material, bringing the welds or rivets nearer to the hardness of the surrounding metals. Peening is the mechanical working of metals by striking them with a tool such as a hammer or by peppering them with shot. It is a cold work process and tends to expand the surface of the cold metal, either relieving tensile stresses or creating compressive stresses - in other words, hardening the metal being worked.* The effect is a planished finish with interest.

Hammer varieties used for this process include the chisel peen, point peen and ball peen. The peen end of the hammer is given a very high polish to remove tiny dents, dings and scratches. For pristine results a smooth, flawless surface is required for the texture created on the metal by the hammer to be smooth and free of defects, requiring only minimal finishing.

You can create a variety of unique textured surfaces on metal using a polished peen hammer. Avoid a hammer with a peen that is chipped, badly dented or deeply dinged. To remove scratches and flaws, start with an abrasive grit coarse enough to begin removing the worst of the surface defects. Work through progressively finer grits until all flaws disappear. Then polish the peen on a buffing wheel with polishing compound. Work through progressively finer compounds until a satin smooth mirror finish is achieved.

Start with a piece of clean, polished brass or copper sheet for practice until you are familiar and confident with your peening technique. Work against a hard metal surface that can securely support the work and is free of defects that could transfer to your piece during the texturing process. A highly polished metal surface, such as a bench block or flawless anvil (we all have one of those, right?) will work fine. Begin with light blows, and then vary the force of your stroke until you get the peening or dimpling effect you want. Continue working your way across the piece until the entire surface is covered with dimples. Finish shaping or forming the piece as desired, and buff as needed. Now switch to steel using your peen hammer as a treadle or power hammer tool. If you heat the steel at all, only go to a dark red or black heat. If you are heating the steel, you will want to cool your hammer every once in a while.

CBA member Ron Stafford, of Clements, California, creates shallow vessels with unique textures using ball peens he welded, chiseled and gouged with various design. (See California Blacksmith, July/August 2005). Take another look at distinguishing your work with texture. Play around, share your experience and photo results with the editor.

* Thackeray Taylor, "Creating Texture on Metal Using a Ball Peen Hammer," Rio Grande News & Product Review, Spring 2006.p. 24 Volume 32, No. 2, June 2008

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The Story of Mousehole Anvils

By Bill Pevey

Several years ago, after I joined the Mississippi Forge Council, it became apparent to me that I needed an anvil. Since I like to talk to people, I would ask anybody that looked like they knew what an anvil was "Do you have an anvil?" If their answer was yes, I would then ask if they wanted to sell it.

After about two months of this I ran into a man that had an anvil that he was willing to sell. We agreed on a price that we were both satisfied with and I took possession of my prize.

Upon getting the anvil home, I started inspecting it more closely. There was an inscription on the side of it that said, "Henry Armitage Mousehole." Under these words were three numbers separated by punch marks. They were 2 0 26. All this information was a mystery to me so I started trying to find out more about where and when it was made and maybe some history of the maker.

In an internet conversation someone told me I needed to talk to a Mr. Richard Postman. Who, I wondered, was Mr. Postman and why did I need to talk to him? I was courteously informed that he had written a 550 page book on anvils. Another inquiry produced his telephone number in Barrien Springs, Michigan.

Several days elapsed before I called Mr. Postman. In the meantime I discovered what the three numbers in the inscription meant. denotes how many hundredweights (112 pounds) were included in the overall weight. The second number tells how many 1/4s of 112 (28 lbs) were included. The 0 indicates no 1/4s and the third number denotes actual pounds. So, adding 112+112 gives 224. Then adding 224 +26 we get 250 pounds for the anvil's weight.

A phone call to Mr. Postman produced an interesting conversation. After the required pleasantries I told him I had a Henry Armitage Mousehole and would like to know more about it. Immediately he stated that he did not believe me! As one might imagine I was somewhat taken aback. He explained that he had heard of only two others and he did not know how to contact those owners. We talked some more and he gave me some information on the anvil and where it was made and that it was made between 1835 and 1854. He told me that he was working on a book about the Mousehole Forge, and that if I sent some good pictures and measurements of the anvil he would include those in the book. I took the pictures and sent them shortly thereafter.

After the book was published I promptly ordered one and was excited to receive it in the mail. To my surprise he had used two of my pictures. The book tells of a chance encounter with two ladies from England and how that helped him get started on his new book. He explained what he was trying to do and asked one of them to attempt to get more information for him when she returned to England.

After about six months she did call and gave him some information that would be crucial in the completion of his monograph on the Mousehole Forge. For those of you that are interested in anvils, and particularly Mousehole anvils, I think you will be glad to have this book in your library. Containing 122 pages and measuring 8.5 x 11 inches it is beautifully illustrated with 80 photos, of which 40 are full color and it also has 27 graphics that help give the reader a sense of where everything is located. It is spiral bound and has a full color laminated cover which will help keep it in good condition for many years to come.

Mr. Postman's first book, Anvils in America, took him 16 years to write. He tells about how he came to write it in the story of the Mousehole Forge.

For those of you who are interested in the two above mentioned books, you may contact him at: Richard Postman, 320 Fisher Court, Barrien Springs, Mi 49103. Telephone: 269 4715426

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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, The Ashokan Center,
447 Beaverkill Rd.
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For more info check out the web site;
<http://www.northeastblacksmiths.org/>

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