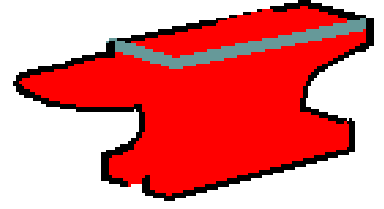


# Blacksmith's gazette

Volume XVIII, Number 9  
November 2005



## Around and About in Blacksmithing Circles

by Fred Holder

The 48th Annual Convention and Trade Show of the National Ornamental and Miscellaneous Metals Association, designated Metalfab will be held on March 8 through 11, 2006 at the Savannah International Trade & Convention Center, Savannah, Georgia. Although this is essentially a convention for the metal fabrication industry it does provide some things of interest to the professional blacksmith who is plying the trade of blacksmithing and perhaps doing considerable fabrication work. One class of specific interest would be the Saturday, March 11 demonstration, Ergonomic Craftsmanship with Uri Hofi. As you will likely remember, we had an article some time back on Uri. Uri Hofi is an Israeli blacksmith born in Haifa, Israel in 1935. After Hofi met Alfred Habermann at the 1984 ABANA conference in DePere, Wisconsin he decided to take up the art of blacksmithing. In 1987, he founded the Ein-Shemer Forge in Israel. During the past 20 years, Hofi has been developing his methods of smithing. This all day class with Uri Hofi will give the attendees an opportunity to learn Uri's revolutionary techniques and methods, starting with the fundamentals--how to hold the hammer. For more information or to register, contact: Metalfab 2006, 535 Lakemont Ct, Ste. 200, Roswell, GA 30075 or call (888) 516-8585, ext 101.

\*\*\*

The Northwest Blacksmith Association (NWBA) will hold their Spring conference on April 21 through 23, 2006 at the Skagit County Fairgrounds in Mount Vernon, Washington. This conference will be a tribute to the work of Samuel Yellin. Yellin, introduced modern blacksmithing to the United States 100 years ago when he emigrated from his native Poland. They will have two of the best American smiths as demonstrators at the conference: Wendell Broussard from Houston, Texas, who is a master in repousse, and Doug Wilson from Little Dear Island, Maine, who is a master in traditional and contemporary forging. Using Yellin's blueprints Wendell and Doug will reproduce one of Yellin's designs.

For more information, contact: Northwest Blacksmith Association, 8002 N.E. Highway 99, #405, Vancouver, WA 98665.

\*\*\*

Apparently while in the area for the NWBA Spring meeting, Wendell Broussard will host a four-day class in classic repousse work in Vancouver, Washington. For more information, you are invited to contact: Don Kemper (360) 887-3903 or Renato Muskovic (604) 888-9388. The announcement didn't indicate where in Vancouver the class would be held or the date.

\*\*\*

Apparently while in the area for the NWBA Spring meeting, Doug Wilson will host a four-day class in

## Contents

*CANIRON V—Take Another Heat* ..... 3

*NWBA Conference Fall 2005*..... 8

*MAKING AN ORNAMENTAL GATE— Part 2*..... 11

*The Blacksmith's Tools--Part 7*. 13

*2004 Issues Now on CD-ROM*.. 14

*The Coal Scuttle*..... 17

*2003 Issues on CD-ROM*..... 19

*Private Blacksmith Schools*..... 20

*Blacksmithing Classes, Workshops & Events* ..... 24



traditional and contemporary forging. For more information on this class, please contact: Kris Ketchum (360) 658-0803. The announcement did not say where the class would be held or the time frame, but I would assume it will be in April and close to the conference date of April 21-23, 2006.

\*\*\*

The September-October 2005 issue of Fabricator, the official magazine of NOMMA has three excellent articles of interest to blacksmiths.

[Continued on Page 2.]

## Around and About in Blacksmithing Circles Continued from Page 1

The first of these, Remembering Samuel Yellen, the man who brought modern blacksmithing to the America. The article is written by Jack Andrews, blacksmith and author, who first visited the Yellin shop in 1975. He has had 30 years to learn about the incredible metalwork and rich traditions of the Yellin firm's past. The article presents some interesting Yellin quotes that I feel is worth repeating:

"The true craftsman should know every branch of his craft and a piece of work can only be either good or bad. If one small part of the grille is bad, the whole grille is bad. For a piece of craftsmanship to be good not the smallest part should receive adverse criticism. And even though

twelve men work on one pair of gates, they must appear when complete as though they were made by one man."

"There is only one way to make good decorative ironwork and that is with the hammer at the anvil, for in the heat of creation and under the spell of the hammer, the whole conception of a composition is often transformed."

"Good design can only be obtained by the process of evolution—and designs which are not based upon some tradition are purely inventive and not creative."

Along with the article, is a brief bio of Samuel Yellin, a master blacksmith by age 17 who came to the US and emerged as one of the greatest American metalsmiths of all time.

The second article is on Uri Hofi, who will be doing an all day workshop during Metalfab 2006. The article is titled, Learning the Hofi way and is written by Rachel Bailey, Editor of Fabricator.

The third article is titled, Forging a mountain scene fireplace surround in five parts, and is authored by Hugh C Culley of Hugh C. Culley Art Design. This is a Job Profile piece and has some nice photos as well as text to describe the job.

\* \* \*

### Cast Iron "Festival" Dutch Oven Cooking Day

by Holly Houser

Tease your tongue, as you taste a bite of history sampling some of the many old-fashioned recipes cooked in iron pots. Join us this Saturday, October 8th, for our Annual Cast Iron "Festival" Dutch Oven Cooking Day, in Scott, AR. Experts will be on hand from 10 a.m. until 2 p.m. to demonstrate cooking, stewing and baking with Dutch ovens. You can join in discussions of recipes, tips on

care and cleaning, or just swap stories about perfect dishes and those gone comically awry. Visitors are invited to bring their own Dutch ovens to cook along with the experts and under their guidance. Our Dutch oven performers will be able to offer advice on everything from cooking techniques to how much charcoal to use for perfect results. This is a wonderful opportunity for Scouts to hone their Dutch oven skills.

All outdoor demonstrations and activities will be free. Admission to the museum exhibits is \$3.00 plus tax for adults and \$2.00 plus tax for children 6 to 12. The Plantation Agriculture Museum is just 20 minutes from Little Rock at the junction of U.S. Hwy. 165 and Arkansas Hwy. 161. Take exit 7 off I-440 turn right on U.S. Hwy. 165, go 5 miles to Museum and turn right on Arkansas Hwy. 161 in Scott, Arkansas. The Museum is open from 8:00 a.m. until 5:00 p.m. Tuesday through Saturday and from 1:00 p.m. until 5:00 p.m. on Sunday. For more information, please contact Holly Houser at (501) 961-1409 or [holly.houser@arkansas.gov](mailto:holly.houser@arkansas.gov). Check us out on web at <http://www.ArkansasStateParks.com/> for information about the Museum, Arkansas State Park locations, and a full list of events.

For more information, contact:

Holly Houser, Museum Interpreter  
[holly.houser@arkansas.gov](mailto:holly.houser@arkansas.gov)  
Plantation Agriculture Museum  
P. O. Box 87 Scott, AR 72142  
4815 Hwy 161  
Work - 501-961-1409  
Fax - 501-961-1579  
<http://www.arkansasstateparks.com/plantationagriculturemuseum>



## Blacksmith's Gazette

*Blacksmith's Gazette* is an electronic magazine published monthly except April and October for \$30.00 per year by Fred and Mildred Holder at 19805 Fales Road, Snohomish, WA 98296. Mailing Address is P. O. Box 2168, Snohomish WA 98291-2168. Telephone: (360) 668-0976, FAX: 360-668-1798. Internet Contact: E-Mail: [blacksmith@fholder.com](mailto:blacksmith@fholder.com), WEB Site: <http://www.fholder.com/>. Editorial material submitted for publication must be accompanied by a stamped, self-addressed envelope to ensure return if it is not accepted for use. *Blacksmith's Gazette* uses materials from many sources and many authors, the views expressed herein are, therefore, those of the authors and not necessarily those of the Publishers. *Blacksmith's Gazette* receives a number of products each year for evaluation, but accepts no responsibility for return of those products unless specifically requested to do so, in advance!

# CANIRON V—Take Another Heat

by Neil Gustafson

Caniron V was held at the Annapolis Royal in Nova Scotia, Canada on Aug 30 – Sept 2, 2005. It was hosted by Maritime Blacksmith Association.

The main demonstration area was on the dock at beautiful downtown Annapolis Royal. The tidal hydro-electric generating station was about a mile away. The teaching stations were across the street under the three sided structures that are the local Farmers Market. The Viking reenactment area was on the bank of the bay between the road & the water, 200 yards from the dock. The Gallery was at the Arts Council Gallery, one building away from the only traffic light. Lecture's were at the King's Theatre (next door to the dock) and at the hall in the Royal Canadian Legion. Registration, Iron-in-the-Hat, kitchen & dining area were also at the Royal Canadian Legion. Accommodation was in the many B&B's in the area, a campground across the river and a campground about 14 km south toward Digby. The oxen pull was in the field behind the Legion. The Auction was open to the public and was at the Farmers Market.

The demonstrators were Brad Silberberg (Mesa Creative Arts Center) from Burgettstown, Pennsylvania U.S.A.; John, Nancy & Becky Little from East Dover, Nova Scotia Canada; Fred Crist from Waynesboro, Virginia U.S.A.; Christoph Friedrich (Alte Hammerschmiede) from Sennwald, Switzerland; David James from Broughton, Kettering U.K.; Paul & Heiner Zimmermann from Kronengasse, Pliezhausen Germany; Henry Pomfret & Adrian Legge (teachers at Herefordshire College of Technology) from Herefordshire U.K.; Doug Newell from Cochrane,



**Part of the demonstration team (left to right, standing) Nancy, John, and Becky Little; Heiner Zimmermann; Henry Pomfret; Brad Silberberg; Paul Zimmermann; (left to right, kneeling) Christoph Friedrich; Adrian Legge; Kelly Smyth; and Fred Crist.**



**View of the dock with the two forging tents where the demonstrations took place.**

Alberta Canada; Kelly Smyth from Glen Mills, Pennsylvania U.S.A.; Darrell Markewitz (The Dark Ages Re-creation Company) from Proton Station, Ontario Canada.

The Conference was held on Tuesday to Friday because the Farmers Market is so active on Saturday in that area, there is no room to move. The weather was the full spectrum of sunny & hot, raining so hard vehicles

had to slow down to see and almost gale force winds (maybe the tail of hurricane Katrina). Tuesday was final set up day at the dock and Farmers Market, Registration opened up at the Legion. At about 4:30 P.M. the Town Crier announced the opening of the demonstration areas and led the procession to the Arts Council Gal-

*[Continued on Next Page.]*

## Caniron V Continued

lery for official opening of the Gallery. Opening and Closing ceremonies were at the Legion. Frank Smith was registrar & master of ceremonies at opening & closing.

After opening ceremonies, two musician friends of John Little, played at the unveiling of his NEW musical instrument "the TECHTONIC SHIFT". The instrument was a combination percussion, string and tentacles. It was played with drum sticks, fingers, horsehair bow, steel bow or a combination of all. One played the "DRUM" while the other played accompaniment with a Bass Clarinet. The "DRUM" had a unique sound all of its own.



**The Techtonic Shift.**

### Wednesday, August 31. Demonstrations started at 9:00 A.M.

At the teaching station, Adrian Legge & Henry Pomfret started with the beginners blacksmith classes.

Tent "A" Brad Silberberg starting at the beginning, how to make points. Always start with the point first when drawing something out so you can always make it match another by working the material in between. An interesting question of "What If??", what if you twist a little more?, what if you add some texture?, what if? what if? etc. Brad did a few sample techniques, how to add some more texture before you start your twists, how to add some more features to a piece so when it gets twisted it almost turns into another creature.



**Brad Silberberg demonstrating.**



**Brad Silberberg demonstration items, pointed and then twisted.**

Tent "B" Christoph Friedrich started by making a point and drawing out a piece of something else and make it balance on the point. Wind or air currents will make the articles move ever so gently. He made a half dozen different pieces that looked great and reacted differently in the wind.

### August 31, 1:30 PM

At 1:30 P.M., Adrian & Henry started the intermediate blacksmith classes

Tent "A" Father & son team, Paul & Heiner Zimmermann did a demo on making 4 different kinds of leaves. The nuances of each type of leaf, how to make the impression of what type of leaf it is. They then proceeded to show how to make a lily pad leaf. Heiner had a texturing tool



**Evolution of a filler panel done by Fred Crist. Top to bottom: 1. original stock, 2. partially forged to shape, 3. cut and ready to form, 4. the finished piece. All one piece but looks like it was made from several pieces.**

to use under the hammer for veining and proceeded to show how nice it worked.

Paul & Heiner made a statement 'Always show the honesty of using a forge, leave the forge & fire markings on your piece'.

Tent "B" Fred Crist did a demo on how to make a filler panel out of one piece of flat bar. The filler panel looked like it had a collar joining everything at the middle and two scrolls at each end. Very Interesting!!

### August 31, 3:30 P.M.

Tent "A" Father & daughter team John and Becky Little couldn't seem to work properly without the help of Nancy (wife/mother). The family team of John, Nancy & Becky Little just showed that the power hammer was a nicety but not an absolute requirement. They started on a heron & some cattails. Becky showed how she made a double shielded, candle holder from a 6" piece of 1" round.



**Father and Daughter: John and Becky Little a forging team with experience.**



**Forged Heron and cattails sculpture by John and Becky Little.**

Tent "B" David James made a blacksmith puzzle that I had not seen before, VERY INTERESTING. He did not have any welds in it, he tapered both ends of each piece so they



**David James' puzzle. Top view assembled. Bottom view solved.**

overlapped about 4" in the rings and maintained original outside dimension. It worked, a lot of people couldn't see the key operation to take the bale off the puzzle assembly.

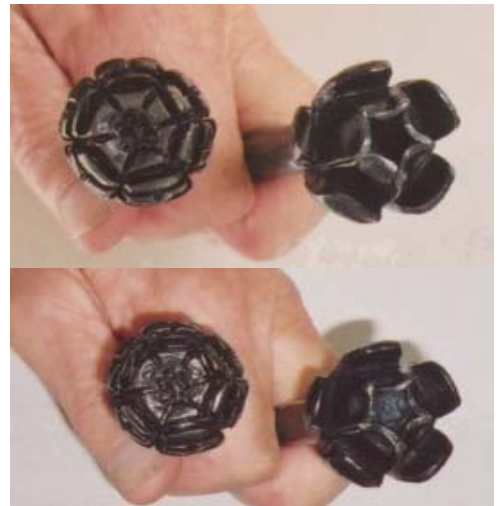
Darrell Markewitz and his Viking Crew were setting up the Viking Camp with their tools including their wood forge that was held together with wood wedges. The hand pumped bellows forced the air to the tuyere and the wood tray was covered with clay. Truly a sight to behold.

**Lectures.**

- Doug Newell did his lecture on design concepts.
- Darrell Markewitz had a sample assortment of Viking Age ironwork. His lecture covered where it came from and how it was used.
- Paul & Heiner Zimmermann did a lecture on Grave Markers
- David James covered 19th century restoration ironwork
- Brad Silberberg showed slides of some of his work.
- Adrian Legge showed slides of some of their students ironwork.



**David James making flowers from round balls.**



**Some of David James' flowers.**

**Thursday, September 1,  
9:00 A.M.**

Adrian Legge & Henry Pomfret continued with the beginners blacksmith class.

Tent "A" Fred Crist took assorted pieces of 3/8" & 1/2" plate and bent, twisted, split and riveted them together into a sculpture piece.

Tent "B" John & Becky continued & finished the 'Heron in the Cattails' and started a wall hanging of 'The Sun Rising over the Hills, in a Circle of Light'.

## Caniron V Continued

**September 1, 1:30 P.M.**

Tent "A" Christoph Friedrich started building two Cattails using 1/2" round for the stem, welding pieces of 3/8" round at it's end and heating and wrapping the 3/8" around the 1/2". When the wrapping was finished, he heated the whole thing and used the power hammer with some dies he had, so that the wrap was driven into the stem & the wrap maintained the same O/D dimension for its length. A very simple way to create an excellent effect.

Tent "B" David James started with some round steel balls, approx 1-1/4" dia., he had step drilled them. He forged a square shanked stem, he used a square taped punch inside the ball, stuck the stem into the step of the ball and peened it into place. VERY SIMPLE, the answer to 'How do you put a square peg in a round hole'. He then heated the ball and held it in a dished bolster with a hole to hold the stem and proceeded to cut the ball with a chisel so that it could open up as a flower. The quality of the steel in the ball controlled how far the petals could be opened. Some were like buds just starting to open, some were like flowers. A very interesting bouquet.

**September 1, 3:30 P.M.**

Tent "A" Paul & Heiner Zimmermann showed how to make a flower from 1" round. Draw out the stem complete with the bumps, drop it into a bolster with a hole for the stem and hammer it down to create the petals. Split for the petals and form them. Paul then started to make a swan from a piece of 2" x 3/16" flat bar, it would be a business card (?) holder. They then started and finished a bottle opener.



**Viking Camp set up for exhibit. Re-enactors of a different era.**



**The Viking all wood forge and its double bellows used to blow the flame.**



**Swan by Paul Zimmermann.**

Tent "B" Brad Silberberg continued with his examples of different functions for different effects.

### Lectures

- Kellysmyth lectured on her different work, making exact copies of ironwork for different ships going through refit.

- Heiner Zimmermann, John Little, Christoph Fredrich & Fred Crist each did about a half hour slide show of their past & present endeavors.

### Vikings Poured their Steel

The Vikings finally got their steel done and poured about 8:00 P.M. They started hammering on it, on stones for anvils, only to have the stones break up. Later that evening they went looking for their cooled off piece only to find that it had been stolen. They contacted the local police who spoke to a vagrant that was hanging around, but couldn't prove anything. What a waste of effort, the Vikings had nothing to show for two days work.

**Friday, September 24**  
**The Beginning of the End 9:00**  
**A.M.**

Tent "A" The British Group of Adrian Legge, Henry Pomfret and David James got together (all wearing 'The Good, The Bad & The Ugly' t-shirts) and brought some pieces of plasma cut plate. They started their SHOW with no hesitation, they were on a mission. They had full size drawings on metal templates that only they could understand and proceeded to banter back and forth at each other like only close friends can get away with. They wouldn't say what they were building, but goaded the spectators to guess what they were making and whisper the guess into their ears (so no one else could hear the guess), a GREAT SHOW of British Humour as only could have been in a busy blacksmith shop. Adrian & David worked on two pieces each, obviously a left & a right. Henry was quietly getting his work done and not seeming to be intimidated by Adrians remarks about how the world worked (or didn't work). Henry was punching holes in two pieces that all the 6 other pieces would be riveted to. David was being drawn into the banter of Adrian and was replying with the same cutting comments. It was very obvious there was only one way to help these guys, STAY OUT OF THEIR WAY. At one point Adrian (who was dripping with sweat) was brought a refreshment by someone who also had a beard, to which Adrian said as he rubbed his beard "If it wasn't for this Velcro, I'd luv ta give ya a kiss". Humour is a wonderful thing. When all the rivets were in place and the pieces touched up with a brass brush, it was a thing of beauty. "A CANADIAN MAPLE LEAF" in a frame.

Tent "B" John & Becky Little, proceeded to make a couple of bracelets with some fancy twisting and



**The Good, The Bad, and The Ugly with their grill made to form the Canadian Maple Leaf. (Left to Right) Henry Pomfret, David James, and Adrian Legge**

turning, their famous sea serpent/dragon bottle opener, finished the heron & the cattails, finished the beautiful wall hanging, made a "V" in a block of steel (for the V in Caniron "V"). All the while Nancy's eye was watching her family, you forgot ———. It was wonderful watching a team that had worked together for MANY years.

**September 24, 1:30 P.M.**

Tent "A" Fred Crist & Brad Silberberg worked together on a project that I didn't see

Tent "B" Christoph Friedrich & Heiner Zimmermann worked together making a large bird (like a stork, with a straight neck). They formed & forge welded 3 pieces of different length flat bar into each long wing, which they wrapped the welded end around the body to affix it to the body. They then forged a stand with a point on it and balanced their creation onto the point. It floated like a bird in the gusts of wind (or hot air).



**Christoph Friedrich & Heiner Zimmermann working to make a large bird.**

Vikings had a forging competition. They had many rocks to use as anvils, but I think they allowed use of hammer & tongs.

**September 24, 4:30 P.M.**

The Auction was held in the Farmers Market area and was filled with very intense bidding for some of the creations

*[Concluded on Next Page]*

The Last Supper was served about 6:00 P.M. for all who attended. After that there were closing remarks by Frank Smith and announcement of the players of the Viking forging competition.

Thanks to all who pitched in to create such a wonderful event. There were representatives from B.C., Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, PEI, Nova Scotia, many from different parts of the U.S. east & west, Switzerland, Germany, and United Kingdom.

### What's Next

The next 'CANIRON' will be 'CANIRON VI' in 2007 and will be held in Victoria B.C. hosted by the Vancouver Island Blacksmith Association. Does the VI stand for Vancouver Island?



Piece by John Little. This doesn't look functional, so it must be art!



Forgings by John and Becky Little: John & Becky Little, a couple of bracelets with some fancy twisting and turning (center), their famous sea serpent/dragon bottle opener (left), a "V" in a block of steel (for the V in Caniron "V") (right).



Forging by Becky Little.



## NWBA Conference Fall 2005

by Fred Holder

The Northwest Blacksmith Association (NWBA) held their Fall 2005 Conference on October 14 through 16, 2005 at the Skagit County Fairgrounds in Mount Vernon, Washington.

Mildred and I didn't make it to the event until just before noon on Saturday, October 15. As a result, we missed Steve Lopes & Co. demon-

strations that were held on Friday afternoon and Saturday morning. So I cannot report on what they were doing. John Adolph was the primary blacksmithing demonstrator that I was able to watch. He demonstrated Saturday afternoon and Sunday morning. Both Mildred and I watched the Louie Raffloer repousse workshop and Mildred spent Saturday afternoon and most of Sunday morning learning about repousse and try-

ing her hand at learning how to do it. She wasn't too interested in the forging demonstrations because she didn't expect to ever do any of that type of work.

There were three classes in blacksmithing during the conference: Friday afternoon was Matt Sabo on Logging Hooks; Saturday morning was Bill Apple on Eye Punching; and

*[Continued on Next Page.]*

Saturday afternoon Lauren Osmolski on Fire Poker. There was also open forge in the class area on-going way into the night on both Friday and Saturday.

It's been several years since I've been able to attend a blacksmithing conference and I found this one very enjoyable. It was only 50 miles from my home and in an area where I lived for more than 20 years. The people who organized and ran this event are to be commended for a job well done!

The rest of this story is photos and captions.

## Some Pieces from the Gallery



This piece was called a Swingy Thingy and the pendulum had free movement in all directions. Touch the pendulum and it would swing and make a pattern in the sand in the dish.



A closer look at the pendulum and the patterns in the sand. I was impressed with this piece because, I could touch the top of the framework lightly with my hand and then "will" the pendulum to swing in the direction that I was thinking. If this had been in the auction, I just might have purchased it. An interesting piece of work.



A very nice camp cooking set: (left to right) adjustable pot hook, lid lifter, fork, and spatula.



Gate by Jerry Nielson.



A Trivet by Jon Soini.



John Adolph brought six decades of welding experience to the conference. He served his blacksmith/welder apprenticeship in Germany from 1947 to 1950. He then began his career at a fabricating plant as welder and drop forge blacksmith from 1950 to 1952 when he moved to Canada. He is an expert welder and from my view of his demonstration he is an excellent blacksmith. John retired from working for other people in 1997 and started his own blacksmith art business and welding consulting work. John wore a blister on his right palm early in the conference and was assisted by a gentleman with a roll of duct tape. They wrapped John's hand with duct tape and he went on about his demonstrations.

[Continued on Next Page]

## NWBA Continued



John Adolph swinging what looked like an 8 or 10 pound short handled sledge. He swung this like it was light as a feather.



Here John Adolph is making a weld on a back-up ring with a 6-1/2" inside diameter and made from 1-1/2" by 3/16" stock. John used agriculture lime as his flux for welding. This was new to me, but it worked great for him.



John Adolph demonstrating beam bending by heating and cooling.



John Adolph said that a lot of the work for smiths in the past had been the making of springs for automobiles. He demonstrated the forging of the part where the spring is bolted to the frame of the car.



A smaller welded ring made on Saturday.



John's texturing hammer.

John forged this horseshoe to show how they were made, but said there were probably people in the audience that could make a better horseshoe. In the time that he took to make it, I was impressed and the shoe looked good to me.



# Blacksmith's Rule of Precision



**Measure it by eye,  
Mark it with soapstone,  
Cut it on the hardie,  
Then heat and beat to fit!**

# MAKING AN ORNAMENTAL GATE— Part 2

*[Reprinted from Wrought Ironwork, a Countryside Agency Publication available for free download at their website: [www.countryside.gov.uk](http://www.countryside.gov.uk). This material is published by permission. You may download the entire book from the above web site.]*

This sign was displayed in the Gallery area. I thought it very appropriate for all blacksmiths.



John showed us how he makes candlecups from gas pipe. I believe he used 3/4" black pipe. The area that has been fullered down would then be made into a tenon to rivet or screw to the base section.



On the other end of the pipe, John showed how he makes the bamboo shapes.



Mildred hammering a copper leaf in the repousse workshop area.



The repousse tools for workshop attendees. Punches made from bolts in the photo on the left and the little repousse hammer in the photo above. This workshop was mostly attended by the women and children.

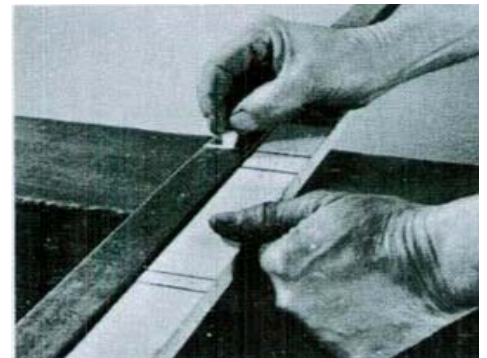


Photo A.

Transfer the marks from the wooden rod to the appropriate bars with an engineer's chalk pencil filed to a chisel point.

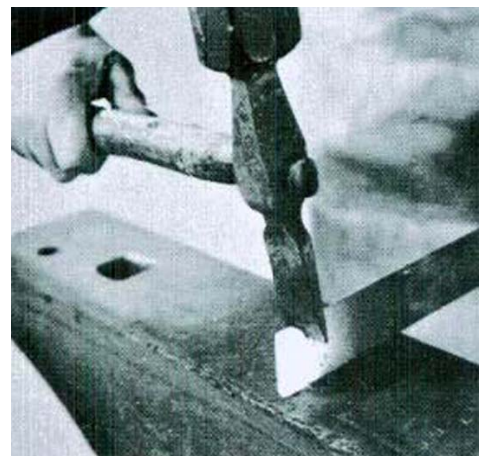


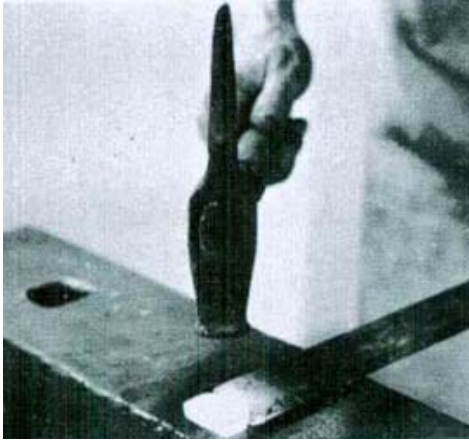
Photo B.

Mark where the shoulder is to come. With the bar on edge cut both shoulders to about three-quarters of their depth with a hot set.

*[Continued on next page.]*

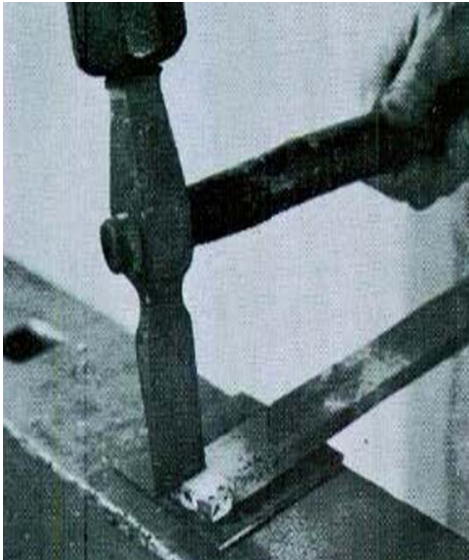
## Gate Continued

On the last of the heat, chisel off the sharp corner left on opposite edges of the tenon by the previous two cuts.



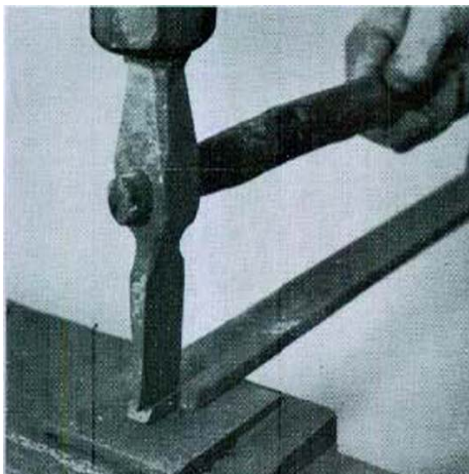
**Photo C.**

Tap down the burr with the back of the set.

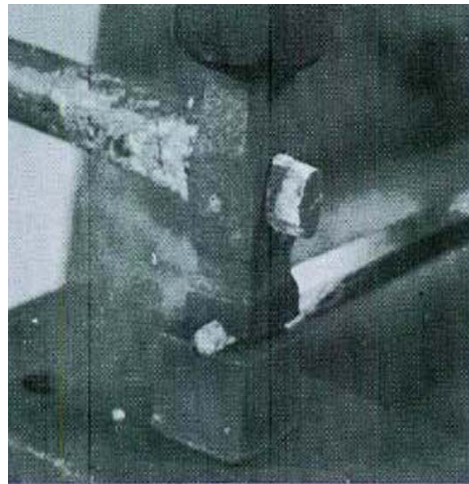


**Photo D.**

Using an anvil saddle or an old piece of plate, cut the sides of the tenon, one from each side of the bar.

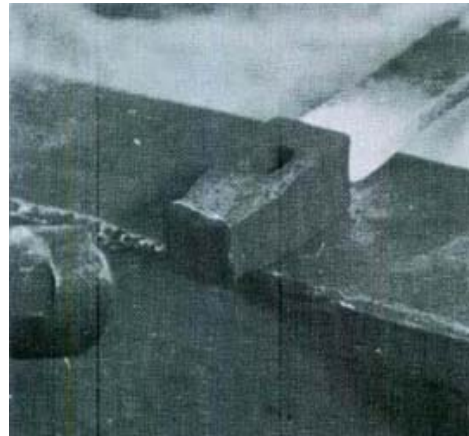


**Photo E.**



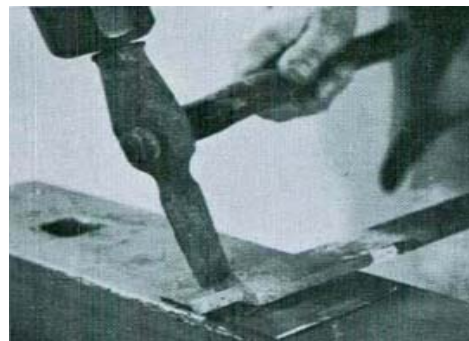
**Photo F.**

Swage the tenon.



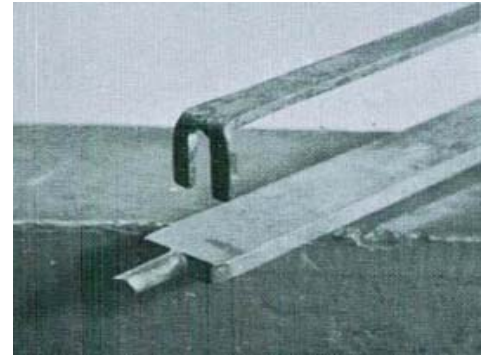
**Photo G.**

Square the shoulder with a monkey tool.



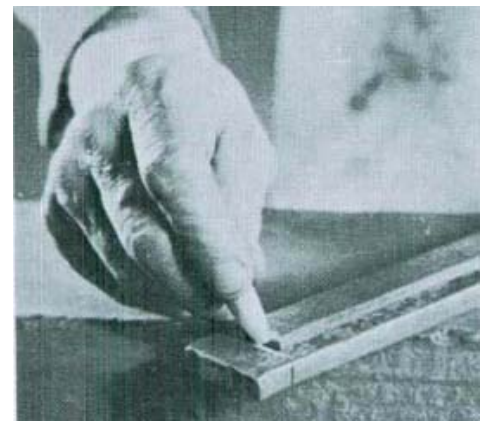
**Photo H.**

Trim the corners of the bar so that the end of the rail is as wide as the stile.



**Photo J.**

For measuring shoulders, make a tenon gauge from any light bar near to hand, with one end bent and forked like this.



**Photo K.**

Mark off the length of the tenon gauge from the height and width rod, and cut it off square. Then mark off the other end of the rail with this gauge.



**Photo L.**

Form the second tenon on the rail, and monkey it up to length, measuring with the gauge. Allow about 1/16th of an inch for shrinkage and fitting with mild steel, slightly more with iron.

# The Blacksmith's Tools--Part 7

[Reprinted from *The Blacksmiths Manuel Illustrated*, a Countryside Agency Publication available for free download at their website: [www.countryside.gov.uk](http://www.countryside.gov.uk). This material is published by permission. You may download the entire book from the above web site.]

## POWER TOOLS. PLATE 27 SPRING SWAGES

PLATE 27 shows a collection of useful spring tools. FIG. 1 illustrates a pair of spring swages which are used for rounding forgings to the required size. Swages for use, as in FIG. 1, should be made with the inside corners having plenty of radius, as shown. This prevents the material from sticking when revolving.

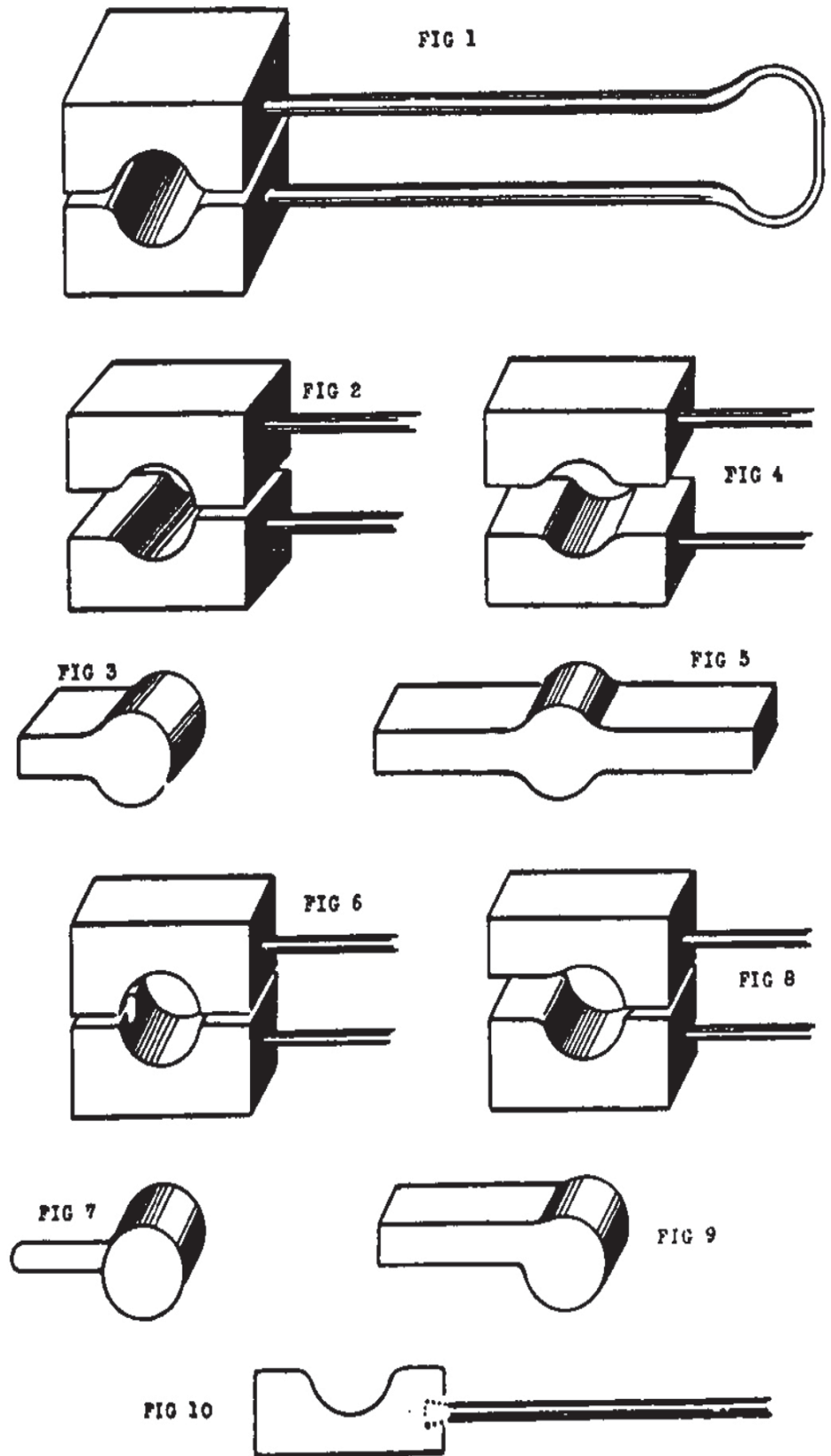
FIG. 2 shows a pair of double eye swages which really act as stamps to form double eye bosses, as shown in FIG. 3.

FIG. 4 shows a pair of middle boss swages used for stamping a boss in the middle of a bar, as shown in FIG. 5.

FIG. 6 shows a pair of eye bolt swages, used for stamping a boss with a round shank attached, as shown in FIG. 7.

FIG. 8 shows a pair of side boss swages used for stamping bosses on one side, as shown in FIG. 9.

FIG. 10 shows the method of fixing the handles in the tools, as previously described on PLATE 26 in the September-October 2005 issue.



## PLATE 27 SPRING SWAGES

[Continued on Next Page.]

# Tools Continued

## POWER TOOLS. PLATE 28 TAPERED TOOLS

PLATE 28 illustrates tapered tools and their uses. These tools are very essential in the smithy.

FIG. 1 shows a pair of tapered sets. These should be made to various angles, to enable the smith to select the required pair for any given forging that may need tapering. Should a pair of sets be required which are not in stock and it is found necessary to have them made, FIG. 2 shows the method to adopt. Mark the given taper of the required forging on a plate and make the sets to same. FIG. 3 shows the bar drawn down to the given set. Finish by cutting off at the dotted lines. These top and bottom sets are used when tapering between bosses, as shown in FIG. 4.

FIG. 5 shows a single tapered set.

In FIGS. 6 and 7 the bar is drawn down, as in FIG. 3, with the exception that in this example the bar is fullered and drawn down. The ends are then bent down, as shown in FIG. 5.

FIG. 8 illustrates the tapered set in use.

FIG. 9 shows a round tapered mandril for enlarging round holes.

FIG. 10 shows an oval mandril used for shaping the eye of a hand hammer.

FIG. 11 shows a square tapered mandril for enlarging square holes.

FIG. 12 shows a hexagon mandril used for shaping spanner jaws.

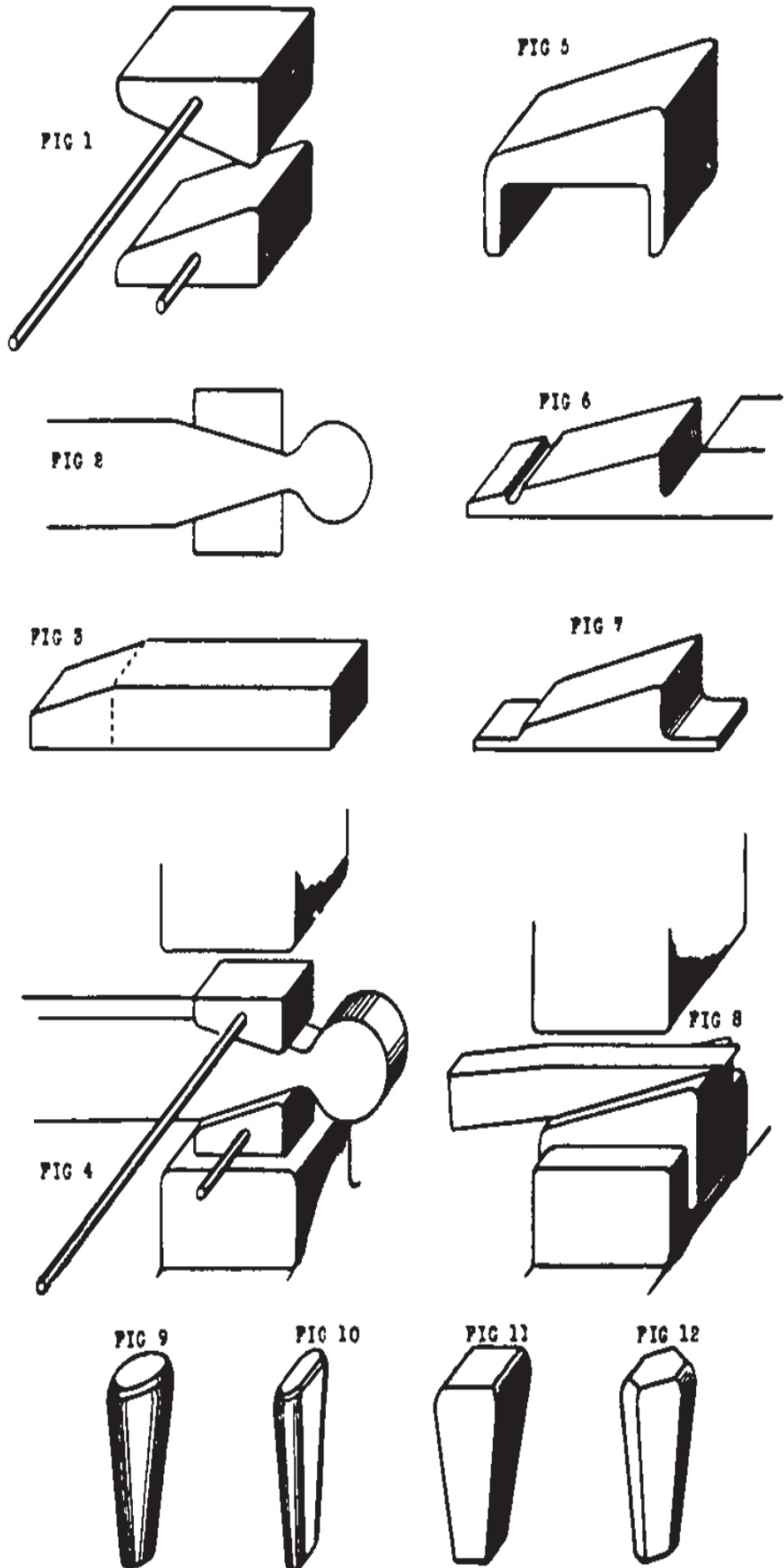


PLATE 28 TAPERED TOOLS

**POWER TOOLS. PLATE 29  
PUNCH AND DIE**

PLATE 29 illustrates a very useful tool for punching holes in flat bars.

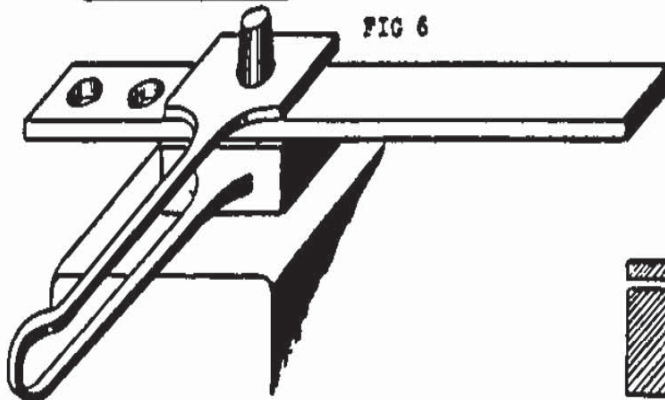
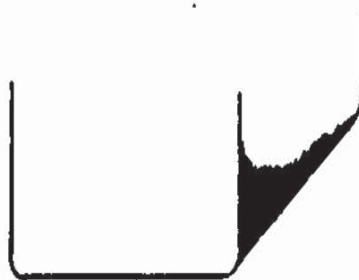
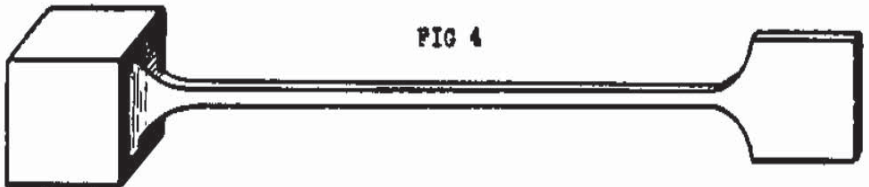
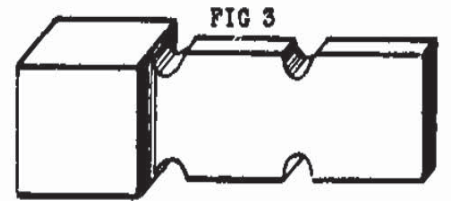
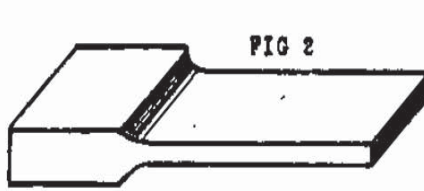
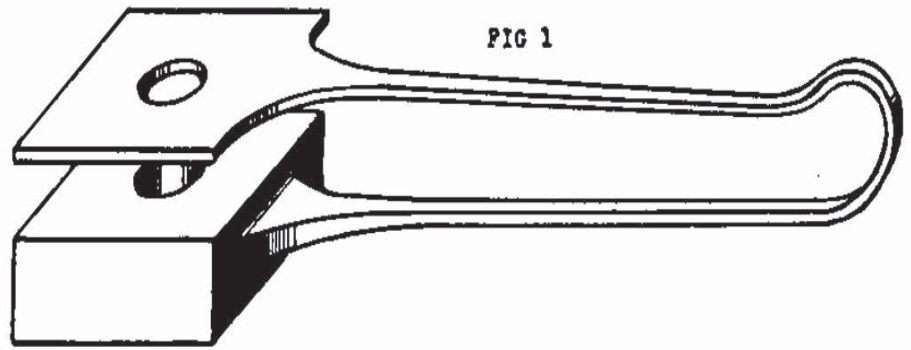
FIG. 1 shows the formation of the die. The bottom hole acts as the die and the top hole as a guide for the punch.

FIG. 2 illustrates the first operation when making a die. Draw down a 3-inch by 1-1/2-inch bar to 3-inch by 3/8-inch, then fuller between, as shown in FIG. 3, and draw down, as shown in FIG. 4. Drill a hole in each end and taper the bottom hole for clearance. Finish by bending, as in FIG. 1.

FIG. 5 illustrates the shape of the punch made of hardened steel.

FIG. 6 shows the punch and die in use.

FIG. 7 gives a sectional view of punch and die.



**2004 Issues Now  
on CD-ROM**

We now have the 2004 issues of Blacksmith's Gazette on CD-ROM. The files are in Portable Document Format and require Adobe Acrobat Reader to read them. You can download Adobe Acrobat Reader for free from a number of locations on the Internet if you don't already have it on your computer. Each CD-ROM is designed to work in machines with Windows 95 or 98 or NT. Price is \$25.00 including post and packing inside the United States add \$3.00 outside the United States. Price in US Dollars.

**Blacksmith's Gazette**

PO Box 2168

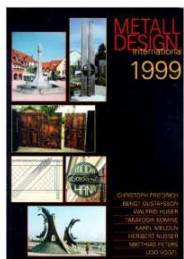
Snohomish, WA 98296 USA

TEL: 360-668-0976

**PLATE 29 PUNCH AND DIE**

# Books from Hephaistos

We have entered an agreement with Hephaistos' US Representative to handle orders for these fine books from Hephaistos, the German publisher of blacksmithing books. These include Peter Elgass's excellent, useful, and praiseworthy projects of photographically documenting the work of several different master blacksmiths from around the world each year. Each annual has a brief biography of the smiths and a large number of beautiful photographs of their work. Each annual contains hundreds of high-quality photos presenting many good ideas for the blacksmith shop.



## 1999 International Metal Design Annual

The 1999 edition showcases the work of the following master smiths: Udo Vogel (Germany), Bengt Gustafsson (Sweden), Heribert Nusser (Germany), Christoph Friedrich

(Switzerland), Matthias Peters (Germany), Takayoshi Komine (Japan), Karel Meloun (Czech Republic), Walfrid Huber (Austria).

**Price: \$57.00**

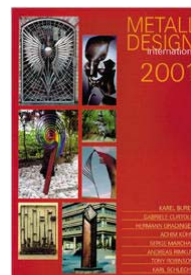


## 2000 International Metal Design Annual

The 2000 edition of the International Metal Design Annual showcases the work of the following master smiths: Klaus Dommers (Germany), Vladimir Sokhonevitch (Russia), Paul

Zimmermann (Germany), Hans Tritscher (Austria), Manfred Bredohl (Germany), Tom Joyce (New Mexico, USA), Alfred Bullermann (Germany), Giovanni Zeppieri (Italy).

**Price: \$57.00**

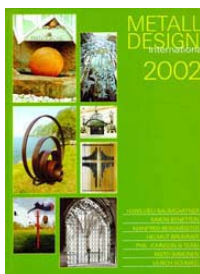


## 2001 International Metal Design Annual

The 2001 edition showcases the work of the following master smiths: Karl Schlecht (Germany), Gabriele Curtolo (Italy), Harmann Gradinger (Germany), Antony Robinson (UK), Achim

Kuhn (Germany), Serge Marchal (France), Andreas Rimkus (Germany), Karel Bures (Czech Republic).

**Price: \$57.00**



## 2002 International Metal Design Annual

The 2002 edition showcases the work of the following master smiths: Phil Johnson (Scotland), Risto Immonen (Finland), Hans-Ueli Baumgartner (Switzerland), Helmut

Brummer (Germany), Ulrich Schmied (Germany), Manfred Bergmeister (Germany), Simon Benetton (Italy).

**Price: \$57.00**



## 2003 International Metal Design Annual

The 2003 edition showcases the work of the following master smiths: Pavel Tasovsky (Czech Republic), Oskar Hafen (Germany), Jaroslav Kaspar (Czech Republic), Josef Bzdok (Germany),

Hans Klasmeier (Germany), Thomas Gustav Kenngott (Germany), Olavi Osara (Finland), Claudio Bottero (Italy), Poldi Habermann (Czech Republic).

**Price: \$58.50**



## 2004 International Metal Design Annual

The 2004 edition of Peter Elgass's masterful yearly survey of world talent in smithing includes the work of: Daniel Miller (USA), Brian Russell (UK), Paul

Margetts (UK), Hajime and Yasuo Ishikura (Japan), Vladimir Markov (Russia), Edda Sandstede (Germany), Martin Breidenbach (Germany), Arped Safranek (Germany).

**Price: \$58.50**

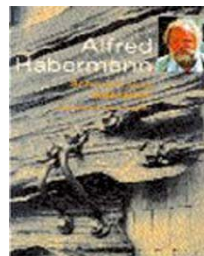


## 2005 International Metal Design Annual

The 2005 edition is the "most youthful" of all those published to date. It showcases the work of Linas Lesciauskas, 31-year-old blacksmith from Lithuania; Paul Elliott, Great Britain is a young

one in his trade as well; Slovakian artist Vladimir Pulis; Hannes Turba from Vienna; The Dutch Guild of Blacksmiths is represented by Willem Jonkers III; Manfred Fattler and Dirk Holler have both conquered their firm place in the German scene. **Price: Price \$58.50**

**These books are a wonderful addition to your blacksmithing library. The pictures are worth the price of the books.**



## Alfred Habermann: Blacksmith and Designer

Alfred Habermann, the friendly, quiet and modest blacksmith from the Czech Republic, is a living legend. This exceptional book, containing hundreds of photos, chronicles the work of this master.

**Price: \$60.00**

In addition to the book price you also must pay shipping of \$7.00 for first book plus \$5.00 for each additional book. **Foreign Customers** please request a quote for shipping costs.

Order three books and take a 5 percent discount on the order.

Master Card and Visa Charge Cards Accepted

Send Orders to: **Blacksmith's Gazette**, P. O. Box 2168, Snohomish, WA 98291-2168

# The Coal Scuttle

We carry this list of sources for Blacksmithing Coal in each issue of Blacksmith's Gazette and update it each time that we receive new information about coal. Hopefully, each of these suppliers are still in business and still supplying coal. Since we have not received any feed back to the contrary, we assume that they are still a viable source for coal or charcoal. Speaking of charcoal, never use briquettes as fuel for the forge. They don't work very well and they emit harmful fumes when blown by a bellows.

Note: The sources listed herein have been supplied by readers of Blacksmith's Gazette over the years. Some of the listings are perhaps 15 years old. If you find that a supplier is no longer supplying good blacksmithing coal, please advise us so that we can remove them from the list. We have no personal experience with any of these suppliers and must depend upon our readers to help us to keep the list up to date.

## Alberta, Canada

Earl Smith, #25-52550 Rg. Rd. 225, Sherwood Park, Alberta, Canada T8A 4S3. TEL: (403) 467-8256.

H. M. Stevens, 10749 150 St, Edmonton, Alberta, Canada. TEL: 389-2137.

## All States and Canada

"L Brand"\* ForgeCoke\* 1/4 x 3/4 inch coke in 50 LB woven bags. VISA & MASTERCARD, shipped nationwide. Phone 800-441-0616 or e-mail your zip code to LBrandForgeCoke@aol.com and we will quote a delivered price. Updated Oct. 2002. \*Trademark

## Arizona

Arizona Artists Blacksmith Association. 3646 W. Lawrence Lane, Phoenix, AZ 85021. TEL: (602) 973-4142. They carry blacksmith's coal from Carbondale, Colorado.

Western's School of Hoseshoeing, Inc., 2801 W. Maryland Avenue, Phoenix, AZ 85017-1204. TEL: 602-242-2560. They carry blacksmith's coal.

Ronstadt's Hardware, 70 N. 6th Ave, Tucson, AZ 85701. TEL: (602) 623-3691.

## California

California Charcoal & Firewood, Inc., 1518 Eastern Avenue, City of Commerce, CA (323) 780-6000.

Lazzari Fuel Company, Inc., P.O. Box 34051, San Francisco, CA 94134. Business is located at 11 Industrial Way, Brisbane, CA. To call them, use (415) 467-2970. They have charcoal, coal, and coke.

## Colorado

Brighton Feed and Saddlery, 370 N. Main St. Brighton, CO 80601-1631. TEL: (303) 659-0721.

Keyser Coal & Trucking, 601-11th, Greeley, CO. TEL: (970) 352-5957. (Only carry coke.)

American Coal Sales, Inc., 1325 W. 9th Ave, Denver, CO 80204. TEL: (303) 573-1210.

Mid-Continent Coal & Coke Co., 1058 100 Road, Carbondale, CO. TEL: (303) 963-2581.

## Connecticut

D&L Coal Company, 8 Rose Street, Danbury, CT 06810. Contact: Donald Peterson. TEL: (203) 743-5043.

Woodbury Blacksmith & Forge Co., P. O. Box 268, Woodbury, CT 06798. TEL: (203) 263-5737.

## Florida

Southeastern Coal, Pocahontas Number Three, Williston, Florida Call Al Pendray after 7:00 PM TEL: (904) 528-6124.

## Georgia

Aetna Coal, Brown's Siding, Wildwood, GA. Call James Lynn at (615) 821-5433 between 7:00 AM and 4:00 PM. Ask for metallurgical coal.

Jimmy Johnson, Rt. 5, Union Hill Road, Canton, Georgia 30114. TEL: (770) 479-8627.

GA Farriers Supply, 2891 Upper Bethany Rd, Jasper, GA 30143. TEL: (770) 735-3984

## Idaho

The Feed and Farm Store, N 6265 Government Way, Coeur d'Alene, ID 83814. Farrier and blacksmithing supplies and coal.

Mark Solomon, 1020 S. Main, Moscow, ID 83843. TEL: (208) 882-6549.

## Illinois

Bost Trucking, 1134 N 11th St, Murphyboro, IL. TEL: (618) 684-3166. Has Schell Blacksmith coal for \$159 a ton.

## Indiana

City Coal Yard, 116 N. Depot Street, Brazil, IN 47834. TEL: (812) 448-8128. They carry coal from the Pocahontas No. 3 seam for \$6.95 per 100 pounds, loaded in you pickup, or \$8.00 per 50 pound bag.

Hoover Lumber & Coal Co., 24120-2 Cr 142, Foraker, In 46526 219-831-2378 open sat till noon they have hard and soft coal @ about \$8.61 @ 100#.

## Coal Scuttle Continued from Page 17

### Iowa

Skei Coal & Wood, Box 394, 639 Lincoln Way, Ames, Iowa 50010. TEL: 515-232-4474.

### Kentucky

Cumberland Elkhorn Coal & Coke, Inc., 950 Swan Street, Louisville, Kentucky 40204. TEL: (502) 589-5300. FAX: (502) 589-5342.

Harlan Cumberland Coal, Harlan, Kentucky. TEL: 606-573-2900. Coal by the feed sack.

### Maine

Rings Coal & Oil Company From Cumberland Freeport Gray 1 Railroad Sq, Yarmouth, ME 04096 Phone: (207) 846-5503

### Massachusetts

National Coal Company, 43 Crescent Street, Worcester, MA 01605. Contact: John Alicandro. TEL: (508) 752-7468.

Williams Coal and Oil Co., 39 Adams St., Braintree, MA 02184, TEL: 781-843-0145.

### Maryland

Elligson Trucking, Freeland, Maryland. TEL: 410-357-5720 or toll free 866-447-8663. The coal is not bad according to Ed Joelson of woodbine, Maryland.

American Natural Resources, PO Box 304, McHenry, MD 21541. TEL: (301) 387-0327.

### Michigan

Streat Fuel Company, 800 Erie Street, Flint, MI 48507.

Sodus Coal, 4093 South Pipestone Road, Sodus, Michigan 49126. TEL: (616) 925-7421.

Bruce Klawiter, Grand Rapids (Holland), Michigan. Have Pocahontas No. 3 from WV in 50 pound bags @ \$15.00 bag. Email

coal@klawiter.net for pickup or send zip code for shipping quote. We ship UPS and FedEx

### Missouri

Webb's & Co. Salvage, Rt. 3, Piedmont, MO 63957. TEL: 573-223-7000. Limited supply of coal and coke from all over the USA. \$35.00 per ton FOB, Piedmont, MO. Bring cash.

### New Jersey

Summit Tech, Inc., 2715 Rt. 130, Cranbury, NJ 08512 Tel: 800-325-3357

Email: summittech@erols.com They have soft coal in 50 lb bags. \$10.00 a bag. Discounts for quantity purchases and purchases by Blacksmithing Associations. Currently, they are stocking coal from Cooney Brothers in Western PA. It is a clean burning with fairly low sulphur. There are a lot of chunks about 4" in size (which break up easily) and a lot of fines...so it's good for welding but it helps to wet it down.

### New York

Garnsey Warehouse, 952 route 4 South, Schuylerville, NY 12871. TEL: (518) 695-3346.

Dennis Coal & Stove Co, Fabins, NY 13063. TEL: 315-677-9383.

Reboy Supply Inc., 1300 Maple rd, Elma, New York 14059. TEL: (716) 652-4321. FAX: (716) 652-0148. E-Mail: matrex@msn.com.

Ashokan Field Campus, 477 Beverkill Rd., Oliverbridge, NY 12461. TEL: (845) 657-8333.

### Nebraska

Automotive Inc./Little Giant, 420 5th Corso, Nebraska City, NE 68410. TEL: (402) 873-6603. They supply Virginia coal to blacksmiths in their area.

### North Carolina

Kayne & Son Custom Hardware, 100 Daniel Ridge Road, Candler, NC 28715. Tel: (828) 667-8868 Or (828) 665-1988 Fax: (828) 665-8303. E-Mail: kaynehdwe@ioa.com. Will ship coal in 50 pound lots by UPS.

PNG coal & Oil Co., 410 E. Second St., Winston-Salem, NC 27101. TEL: (919) 722-2024.

### Ohio

Dennis Coal 11555 Co. Rd. D Wauseon, Ohio 43567 TEL. (419) 335-4665

E-mail bed\_62@Hotmail.com We carry Kentucky Stoker (Horsecreek) @ \$4.00 / 50# bag. West Virginia Stoker / Pea (Sewell Seam) which is excellent for welding. 50# bags @ \$6.00 F.O.B. Wauseon, Ohio.

Thompson Brothers Mining company, 3379 E. Garfield, North Lima, Ohio 44452. TEL: (330) 549-3979. They carry Kentucky Stoker coal.

Fairview Coal Company, Lima, Ohio. They have a good stoker coal ,some clinker but not bad. About \$83.00 a ton.

### Oklahoma

Mills and TeeJay, Blanchard OK, Call Mills at 405-401-9739 to arrange for pick up or shipment. Currently stocking Sewell Seam from WV 15,000 + BTU by the 50 -100 lb bag or bulk can be arranged. email: TeeJay at teesox@aol.com or Mills at mills\_fam2@netzero.net

### Ontario, Canada

Envirotech Resolutions Incotrading. 23 Chapple St., Hamilton, Ont. Canada. L8L 8K7. Call Frank Cipriani at 905-545-2311,

Or Fax 905-549-4249 or E-MAIL: eri@bellnet.ca. Coal & Coke Sales - Retail/Wholesale: Anthracite

- Filtermedia. Bituminous: Blacksmith/Forging, Cannel and any other Carbon Products; Including Prosthetics - Orthotics Materials; Carbon Fiber, Fiberglass Cloth, Sox Braid.

Upper Canada Village Historical Site in Morrisburg Ontario.

BMR Building Centers Located in Quebec. The one in Laval Quebec located on Currie Labelle Rd. Has Anthracite in 3 sizes and sells for \$9.99 CDN per 20 Kg.

### Oregon

Farrier Supplies, 26729 Highway 99 West, Monroe, Oregon 97456. TEL: (541) 847-5854.

Valley Farrier Supply, 21383 S. Yeoman Road, Beaver Creek, OR 97004. TEL: (503) 632-4366.

### Pennsylvania

Clem Malot, HCR 80, Box 549, McConnellsburg, PA 17233. TEL: (717) 485-9314. E-mail: unclerclem@cvn.net.

Brumder Ornamental Iron, Inc., 40128 Industrial Park Circle, Georgetown, TX 78626. TEL: (512) 869-2830.

Penn Keystone Coal Co., RD 1 Box 557, Claysburg, PA 16625. E-mail: penncoal@aol.com. TEL: 814-244-3140.

Liberty Forge, 40128 Industrial Park Circle, Georgetown, TX 78626. TEL: (512) 869-2830.

Wallace Metal Works, R.D. 1 Blacksmith Lane, Kempton, PA 19529. TEL: 610-756-3377 - FAX 610-756-3939. E-mail: WalmetaLwk@aol.com.

Bradford Coal Company, Inc., PO Box 368, Bigler, PA 16825. TEL: (814) 342-0529. Contact: Terry Swanson.

Nolt's Mill, 360 Mount Sidney Rd, Witmer, PA 17585. TEL: (717) 393-1369.

### Quebec, Canada

H. Riendeau Inc., Ch. 2640 St. Charles, St. Henri, Montreal, Quebec, Canada. TEL: 1-514-932-9144. Dan Stotland reports, "I get good bituminous farriers coal and also, metallurgical coke (pea size) from him. He speaks fluent French, and good English. Also he is a gentleman.

### Rhode Island

Peoples Coal Company, 55 Mill Street, Cumberland, RI 02864. Contact; Dennis Hysko. TEL: (401) 725-2700 or (617) 761-6929.

### Texas

Brumder Ornamental Iron, Inc., 40128 Industrial Park Circle, Georgetown, TX 78626. TEL: (512) 869-2830.

Liberty Forge, 40128 Industrial Park Circle, Georgetown, TX 78626. TEL: (512) 869-2830.

C&M Horse Shoe Sales, P. O. Box 249, Conroe, Texas 77305, 1-800-392-7002. (Conroe is about 30 miles north of Houston)

Texas Farrier Supply, 603 S. New Hope Rd., Kennedale, Texas 76060, 1-800-777-2725. (Kennedale is southeast of Ft. Worth, near loop 820.).

### Virginia

Hungerford Oil Co., 1604 East Broad Street, Richmond, Virginia. TEL: 804-648-4703. They sell a grade called Stoker P that is considered pretty good.

### Vermont

Leigh Morrell, Morrell Metal Smiths, PO Box 2114, 446 Marlboro road, Brattleboro, VT 05303. TEL: (802) 254-2400. FAX: (802) 254-2976. You must bring your own container. Leigh will provide the shovel.

### Washington

Central Fuel, 1945 S. Market Blvd., Chehalis, WA 98532. TEL: (360) 748-8808. Bring your own containers.

### West Virginia

Pocahontas Coal & Coke, 312 Industrial Park Road, Beaver, WV 25813. Contact: Bob Bowling 304 253-5676

Beury Mountain Carbon, PO Box 187, Hico, WV 25854-0187. TEL: 304-575-2961 or 304-438-7275. E-Mail: t a keeney@hotmail.com or t a keeney@reiclabs.com. Contact Tim Keeney. They carry coal from the Sewell Seam, surface mined and hand cleaned and loaded.

### Wisconsin

Centaur Forge Ltd., 117 N. Spring Street, Burlington, WI 53105 TEL: 800-666-9175. Carries blacksmithing coal in 50 pound bags.

Upper Lakes Coal, 1400 bylsby Ave, Green Bay, WI 54303-3708. TEL: (920) 432-2411. Sell Bituminous Coal for \$100 per ton.



### 2003 Issues on CD-ROM

We have the 2003 issues of Blacksmith's Gazette on CD-ROM. The files are in Portable Document Format and require Adobe Acrobat Reader to read them. You can download Adobe Acrobat Reader for free from a number of locations on the Internet if you don't already have it on your computer. Each CD-ROM is designed to work in machines with Windows 95 or 98 or NT. Price is \$25.00 plus post and packing of \$3.00 inside the United States and \$5.00 outside the United States. Price in US Dollars. Order from Blacksmith's Gazette, PO Box 2168, Snohomish, WA 98296 USA  
TEL: 360-668-0976  
Fax: 360-668-1798  
E-Mail: blacksmith@fholder.com  
WEB Site: <http://www.fholder.com/>

## Private Blacksmith Schools

### Allison's Wells School of Arts & Crafts Inc.

P. O. Box 924  
Canton, MS 39046

### Appalachian Center for Crafts

1560 Craft Center Drive  
Smithville, TN 37166  
(615) 597-6801 or (931) 372-3051  
Web Site: [craftcenter.tntech.edu](http://craftcenter.tntech.edu)

### Arromount School of Arts & Crafts

P. O. Box 567  
Gatlinburg, TN 37738  
(615) 436-5860  
WEB Site: <http://www.arrowmont.org/>

### Augusta Heritage Center

Box Cn  
Davis & Elkins College  
West Virginia 26241-3996  
(304) 636-1903

### Bandy Blacksmith Shop

321 N. Broadway  
Grape Day Park  
Escondido, CA 92025  
[www.escondidohistoricalsociety.org](http://www.escondidohistoricalsociety.org)

### Bay School of the Arts

P. O. Box 696  
North, VA 23128  
804-725-5744  
E-Mail: [jcove@inna.net](mailto:jcove@inna.net)

### Bear Mountain Outdoor School

Hightown, VA 24444  
(703) 468-2700

### Brookfield Craft Center

P. O. Box 122, Route 25  
Brookfield, CT 06804  
(203) 775-4526

### John C. Campbell Folk School

One Folk School road  
Brasstown, NC 28902  
(828) 837-2775  
1-800-365-5724 (toll free)  
Fax: (704) 837-8637  
Web Site: <http://www.folkschool.org>

### Camp Verde School of Blacksmithing

HC 75 Box 1598  
Camp Verde, AZ 86322  
(602) 567-3681

### Cape Cod School of Blacksmithing

13 Captain Doane Way  
Orleans, MA 02536  
(508)240-7661

### Cedar Lakes Craft Center

Ripley, West Virginia 25271  
(304) 372-7873

### Center for Creative Studies

201 East Kirby  
Detroit, Michigan 48202  
800-952-ARTS

### Chisham Forge

Box 82  
Petaluma, CA 94953  
(707) 765-9861

### Colorado Rocky Mountain School

1493 County Road 106  
Carbondale, CO 81623  
(303) 963-2562

### Connecticut School of Wrought Iron Design

Box 8116, Buckland Station  
Manchester, CT 06040  
(203) 646-8363

### Conner Prairie Museum

13400 Allisonville Road  
Fishers, IN 46038  
(317) 776-6000

### Custer Forge and Welding

3128 Behme Road  
Custer, WA 98240  
360-366-9149/360-366-4033

### The Forgery School of Blacksmithing

Robb Gunter  
13 Tijeras, New Mexico 87059  
(505) 281-8080

### Forge & Anvil Metal Studio, Ltd.

30 King Street  
Jacobs, Ontario N0B 2N0  
Canada  
(519)664-3622

### Gould Academy

P. O. Box 880  
Bethel, ME 04217  
(207) 824-2161

### Haliburton School of the Arts,

Hwy 118, Box 839  
Haliburton, Ontario, Canada K0M 1S0.  
Tel: 705-457-1680.  
E-Mail: [slittle@fleminge.on.ca](mailto:slittle@fleminge.on.ca)  
Web Site: <http://www.HalburtonSchoolofTheArts.ca>

### Hancock Shaker Village

P. O. Box 927  
Pittsfield, MA 01202  
<http://www.hancockshakervillage.org>

### Haystack Mountain School of Crafts

P. O. Box 518  
Deer Isle, Maine 04627  
(207) 348-2306

### Joseph Art School

Box 106  
Joseph, Oregon 97846  
800-459-3605

### Loken Forge School of Blacksmithing

1012 N.13th St.  
Omaha, NE 68104  
402-345-0224  
[johnloken@prodigy.net](mailto:johnloken@prodigy.net)  
<http://www.lokenforge.com>

### Montgomery Community College

P. O. Box 787-S  
Troy, NC 27371

### McLellan Blacksmithing

921 Lawton Avenue  
Roseville, CA 95678  
TEL: (916) 786-0560

### Old Cowtown Museum

1871 Sim Park Drive  
Wichita, KS 67203  
(316) 264-0671

### Old Sturbridge Village

1 Old Sturbridge Village  
Sturbridge, MA 01566  
Web Site: <http://www.osv.org>  
(508) 347-3362

### Oregon School of Arts and Crafts

8245 SW Barnes Road  
Portland, Oregon 97225  
503-297-5544

### Ozark School of Blacksmithing

HC 87, Box 5780  
Potosi, MO 63664  
TEL: (573) 483-4725  
FAX: (573) 483-8483

### Penland School

Penland Road  
Penland, NC 28765-0037  
(828) 765-2359

### Peters Valley Craft Center

19 Kuhn Road  
Leyton, NJ 07851  
(201) 948-5200

### Saskatchewan Western Development Museum

Blacksmithing School  
2935 Melville Street  
Saskatoon, Saskatchewan  
Canada S7J 5A6  
(306) 934-1400

FAX: (360) 934-4467

**School of the Building Arts, Inc.**

Old City Jail  
20 Franklin Street  
Charleston, SC 29401  
TEL: (877) 283-5245  
Web Site: www.soba.us

**Seven Eagles Education Center**

16486 Wapakoneta Road  
Grand Rapids, OH 43522  
TEL: (419) 832-0114

**School of Bladesmithing**

Texarkana College  
2500 N. Robinson Road  
Texarkana, TX 75501  
(903) 838-4541, Ext. 237

**Shelbourne Craft School**

Box 52  
Shelbourne, Vermont 05482  
802-985-3648

**Tillers International**

5239 south 24th Street  
Kalamazoo, MI 59002  
TEL: (616) 344-3233

**Touchstone Center for Crafts**

R.D. 1 1, Box 60  
Farmington, PA 15437  
(412) 329-1370

**Turley Forge Blacksmithing School**

Route 10, Box 88c  
Santa Fe, NM 87501  
(505) 471-8608  
E-Mail: nudahonga@qwest.net.

**Metal Design Program**

School of Art DM-10  
Seattle, WA 98195  
TEL: (206) 543-6016

**The Worchester Center for Crafts**

25 Sagamore Road

Worchester, MA 01605  
508-753-8183

**20th Century Museum of Technology  
and History**

Klaus Duebbert, Instructing  
106 North I Street  
San Bernardino, CA 92410  
TEL: 909-797-3279

Web Site: www.yucaipaforge.com

**Western's School of Horseshoeing**

Also teach general blacksmithing.  
2801 W Maryland Avenue  
Phoenix, AZ 85017  
TEL: 602-242-2560

**FOREIGN SCHOOLS**

**Forge and Anvil Metal Studio**

30 King Street  
St. Jacobs, Ontario  
Canada N0B 2N0  
TEL: (519) 664-3622

**Malcolm Paine A.W.C.B.**

P. O. Box 757  
Busselton WA 6282 Australia  
TEL: 097 551183

**Cold Hanworth Forge**

NR Welton, LINCOLNSHIRE LN2 3RE,  
England



Tel: +44 (0) 1673 866700

Email: boboakes@teachblacksmithing.com

Web Site:

http://www.teachblacksmithing.com/

Contact: Bob Oakes.

**Blacksmith's  
gazette**

**The Publication for Blacksmiths**

Blacksmith's Gazette is published 10 times a year as a Portable Document File for blacksmiths. It doesn't deal with blacksmithing as an art, but with the craft of blacksmithing. It contains news, tips, and techniques related to the craft of blacksmithing.

**Subscribe Today!**

\$30.00 for one year, \$50.00 for two years, and \$70.00 for three years.

*All payments must be in US Dollars. [MasterCard and Visa accepted.]*

Send To:  
**Blacksmith's Gazette**  
P. O. Box 2168, Snohomish, WA 98291-2168

**Blacksmith's Guild of the Potomac - Membership Application**

Name \_\_\_\_\_ Home Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Work Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

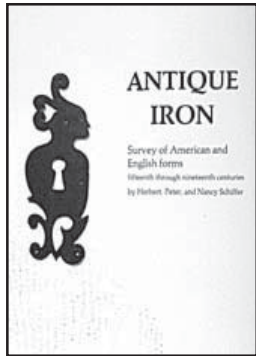
I am a member of ABANA, The Artist Blacksmiths Association of North America  Yes  No  
 New Member — \$30.00 or 3 yrs/\$65.00  Renewal — \$20.00 or 3 years/\$55  Life — \$300.00

Make Check payable to: **BGOP** Mail Check and membership application to:

Ken Zastrow, 12800 Hammonton Road, Silver Spring, MD 20904-3523.

## Blacksmithing Books For Sale

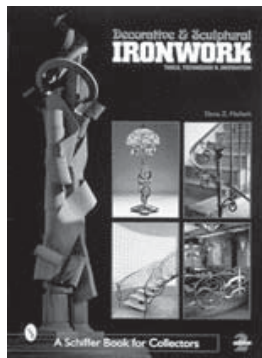
We are pleased to offer Schiffer Books relating to Blacksmithing for sale through Blacksmith's Gazette. Here are the titles we are offering:



**Antique Iron, English and American: 15th Century Through 1850**, by Herbert, Peter and Nancy Schiffer. Included are architectural hardware, lighting devices, andirons and fireplace equipment, tools, toys, weathervanes, firemarks, kitchen utensils, fences, and gates. South, Midwest and Northeast United States, England, and Europe. Size 8-1/2" by 11", 981 photos and drawings, index, 320 pages, hardcover. ISBN: 0-88740-558-4. Price: \$59.95.



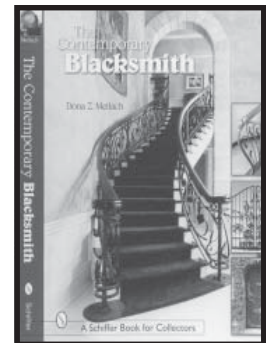
**Decorative Ironwork: Wrought Iron Gratings, Gates and Railings**, by Margarete Baur-Heinhold. Artists have made gates and fences in wrought iron over the centuries in ornamental designs shown here in hundreds of photos. The restoration of wrought iron is discussed and ironwork examples are organized according to their uses, such as gratings that protect doors and windows, entries and gates from Europe in the Middle Ages, artistic creations of the 17th and 18th centuries, and works of our own day. Size: 9" x 12", 368 photographs, index, 176 pages. ISBN: 0-7643-0153-5. Price: \$49.95.



**Decorative & Sculptural Ironwork: Tools, Techniques & Inspiration, Revised and expanded edition** by Dona Z. Meilach. A classic book in new edition. All the fascinating properties of iron can be creatively explored with 52 color plates, 717 black and white photos, drawings, and detailed text. The ironworking shop and forging procedures are explicitly shown. Ideas for iron railings, lighting devices, sculpture and useful objects are explored with master artist's work. Size: 7" x 10", 52 color and 717 black and white photographs, index, 328 pages. ISBN: 0-7643-0790-8. Price \$34.95.



**Architectural Ironwork** by Dona Z. Meilach contains 240 pages and 375 spectacular examples of work from more than a hundred of today's top blacksmiths. It measures 11 by 8-1/2 inches and is hardbound with most pictures in



**The Contemporary Blacksmith** by Dona Z. Meilach contains 256 pages and 542 photographs. It measures 8-1/2 by 11 inches and is hardbound. This important new book tackles the burgeoning revival of the blacksmith's art. Meilach has brought together over 500 works by nearly 200 artist-craftsmen from sixteen countries to illustrate the unprecedented activity blossoming into a serious art form. ISBN 0-7643-1106-9. Price \$49.95.



**Fireplace Accessories** by Dona Z. Meilach contains 256 pages and 400 photographs, most in color. This book offers over 400 ideas for unusual fireplace designs. The author has gathered works from more than 100 master artist blacksmiths from nine countries to present a feast of ideas to help strengthen your work. Another beautiful coffee table book and reference source. ISBN 0-7643-1615-X. Price \$49.95

In addition to the book price you also must pay shipping of \$5.00 per book.

**Foreign Customers** please request a quote for shipping costs.

Order three books and take a 10 percent discount on the order.

Master Card and Visa Charge Cards Accepted

Send Orders to: **Blacksmith's Gazette**, P. O. Box 2168, Snohomish, WA 98291-2168

# Blacksmithing Suppliers

If you know of a company listed here that is no longer supplying blacksmithing supplies please let us know. If you know of a supplier that we do not have listed, please let us know also.

## All-States Dist. Co. \*

614 W. Highway 39, Blackfoot, Idaho 83221. Toll Free 1-800-274-4421. WEB page: <http://members.aol.com/idcamper/All-States.html>.

Distributor of the All-States Propane Cutting and Hardfacing system.

## Anvil Brand Shoe Company\*

P. O. Box 198, Lexington, IL 61753 TEL: 1-800-365-8202 FAX: 309-365-8270 or 3341. Web: [www.anvilbrand.com](http://www.anvilbrand.com).

## American Punch Co. \*

27101 Tungsten Rd, Euclid, OH 44132. TEL: (800) 243-1492. FAX: (800) 261-6270. E-Mail: [sales@americanpunchco.com](mailto:sales@americanpunchco.com).

Iron Worker punches, dies, shear blades, punch stems, coupling nuts and other tooling.

## Bayshore Metals, Inc. \*

P. O. Box 882003, San Francisco, CA 94188-2003, TEL: (415) 647-7981 or (800) 533-2493. Half Ovals, Half rounds, and Tees in various sizes.

## The Bead Shop\*

158 University Avenue, Palo Alto, CA 94301. TEL: 650-328-7925. Web: [www.beadshop.com](http://www.beadshop.com) Beads and beading tools.

## Blacksmiths Depot - Kayne and Son\*

100 Daniel Ridge Road, Candler NC 28715 TEL: 828 667-8868. Fax: 828 665-8303 Web Site: [www.blacksmithsdepot.com](http://www.blacksmithsdepot.com)

Fly Presses and Treadle Hammers, , Peddinghause anvils, tongs, hammers at discount. Swage blocks, gas forges. Pyramid head lag screws and wood screws.

## Blue Creek Blacksmith Supplies and Tack\*

1029 W. Commerce St (US 50), PO Box 12, Brownstown, IN 47220. TEL: 812-358-5173 or 800-449-8193. FAX: 812-358-1823. E-Mail: [bluecreektack@hotmail.com](mailto:bluecreektack@hotmail.com). They carry a full line of blacksmithing supplies. They ship daily as well as having a store front.

## Boggs Tool Processing and File Sharpening Co. \*

14100 Orange Avenue, Paramount, California 90723 TEL: (562) 634-1081, outside California (800) 547-5244. E-Mail: [Boggstool@aol.com](mailto:Boggstool@aol.com). WEB Page: <http://www.BoggsTool.com> . Rasp and file sharpening.

## Centaur Forge LLC.\*

117 N. Spring Street, P. O. Box 340, Burlington, WI 53105 TEL: (262) 763-9175. Toll Free: 800-666-9175. FAX: 262-763-8350. Web: [www.centaurforge.com](http://www.centaurforge.com). Anvils, forges, vices, most blacksmithing supplies, line of blacksmithing books. Catalog available.

## Centaur Forge Texas\*

1367B Industrial Dr, New Braunfels, TX 78130. Phone: 888-229-8877. FAX: 830-627-3300. Web: [www.centaurforge.com](http://www.centaurforge.com). Anvils, forges, vices, most blacksmithing supplies, line of blacksmithing books. Catalog available.

## Chris Topp & Co Ltd\*

Carlton Hushwaite, Thirsk, North Yorkshire, England, Tel : 01845 501415 Fax : 01845 501072 Email : [enquiry@christopp.co.uk](mailto:enquiry@christopp.co.uk). Web Site: [www.christopp.co.uk](http://www.christopp.co.uk).

## E. G. Heller's Son, Inc.\*

Los Angeles, California. TEL: (800) 233-0929, Ext. 102. FAX: 818-344-8898. Web: [www.hellerson.com](http://www.hellerson.com). Profile benders; plate rolls, ring rolls, Ironworkers, press brakes and shears and tube/pipe benders.

## Farrier Supplies LLC\*

26729 Highway 99 W, Monroe, Oregon 97456. TEL: (541) 847-5854. Blacksmithing and Farrier tools and supplies, including coal.

## Glendale Forge Tools\*

Monk Street, Thaxted, Essex CM6 2NR. England Tel: +44 1371 830466 Fax: +44 1371 831419 Website: <http://www.blacksmithstools.com> E-mail: [glendaleforge@btinternet.com](mailto:glendaleforge@btinternet.com) All types of blacksmithing tools & equipment: tongs, hammers, forges, spares, anvils, etc. (\$6 contribution for mailing Catalog)

## Hauser & Miller Co., Inc.\*

10950 Lin-Valle Dr. St. Louis, Mo 63123 Tel: (800) 462-7447 Web Address: [www.hauserandmiller.com](http://www.hauserandmiller.com) Metal

## Heck Industries, Inc.\*

P. O. Box 425, 1480 Old US Highway 23, Hartland, MI 48353. TEL: (810) 632-5400. Web: [www.woodward-fab.com](http://www.woodward-fab.com). Manufactures metal fabricating equipment.

## House of Forgings, Inc.\*

1922 Rankin road, Houston, Texas 77073. TEL: (281) 443-4848 or (866) 443-4848 (toll free). Web Site: [www.houseofforgings.net](http://www.houseofforgings.net). Selection of forged products from the world's top quality producers including Italy, Germany, Asia and many more. Offering over 1,200 forged components ready for immediate shipment.

## Jansen Ornamental Supply Co\*.

10926 Schmidt Road, El Monte, CA 91733 Tel: 800-423-4494. Ornamental Supplies

## Ken McFall, Knifemaker, supplier\*

Po Box 458, 1972 Forest ave, Lakeside AZ 85929 TEL: 800 972 1192. Complete knifemaking supplies as well as nickel, 15n20, 1084, 1095 and pure nickel for forge welding. Also have KAO wool and forge refractory available.

## Lawler Foundry Corporation\*

P. O. Box 320069, Birmingham, AL 35232 TEL: (205) 595-0596 . FAX: 205-595-0599. Gray Iron Castings and Artistic Steel Forgings. The Lawler Line has over 1200 Ornamental Metal Components.

## The Lincoln Electric Company\*

22801 St. Clair Avenue, Cleveland, OH 44117-1119. TEL: (216) 481-8100. Web: [www.lincolnelectric.com](http://www.lincolnelectric.com). Manufactures welding consumables, welding equipment and cutting equipment.

## Lorance Forge and Castings

(Roger Lorance)

16412 E. Illinois 9 Highway, Canton, IL 61520. TEL: (309) 647-9242. Makes heavy-duty firepots, swage blocks, and cone mandrels. Descriptive brochure available.

## Mankel Blacksmith Shop\*

7836 Cannonsburg Road, Cannonsburg, MI 49317. TEL: (616) 874-6955. Anvils, forges, tools, and other blacksmithing supplies. Catalog available.

## McNichols Co.\*

P. O. Box 30300, Tampa, FL 33630-3300. TEL: 800-237-3820. Perforated metal, expanded metal, wire cloth, grating.

## NIMBA Forge & Anvils, Inc.\*

353 Glen Cove Road, Port Townsend, WA 98268. TEL/ FAX: (360) 385-7258. E-Mail: [nimba@olympus.net](mailto:nimba@olympus.net). Web Site: <http://www.nimbaforge.com>. Three sizes of double-bick, European-style anvils, made in the USA from 8640 cast steel and heat treated to 50 Rockwell

## NC Tool Company \*

6133 Hunt Road, Pleasant Garden, NC 27313, 1-800-446-6498. Anvils and gas furnaces.

## Pieh Tool Company, Inc.\*

437 W. Hwy 260 , D, Camp Verde, AZ 86322 TEL: 928-554-0700 or 888-743-4866 FAX: 928-554-0800 Web Site: [www.piehtoolco.com](http://www.piehtoolco.com) Blacksmith Supplies, billy Tongs, books and classes.

## Ridge Tool Company\*

400 Clark St, Elyria, Ohio 44036-2023 USA. TEL: (216) 323-5581. FAX: (216) 323-5204. The Peddinghaus line of Drop Forged Steel Anvils in six sizes.

## Stephen Bader Co Inc.\*

10 Charles St, PO Box 297 Valley Falls, NY 12185 Phone 518-753-4456 Fax 518-753-4962 Grinding and polishing machinery

## Superior Flux & Mfg. Co.\*

6615 Parkland Blvd., Cleveland, OH 44139. Contact: Linda D. Cohen. TEL: 440-349-3000. FAX: 440-349-3003. E-Mail: [info@superiorflux.com](mailto:info@superiorflux.com). Web page: <http://www.superiorflux.com>. Source for Anti-Borax Welding Flux. They manufacture the product using the original formulas and retaining the Anti-Borax label.

## Tennessee Fabricating Company\*

2025 York Avenue, Memphis, Tennessee 38104. TEL: (901) 725-1548. FAX: (901) 725-5954. WATS: (800) 258-4766.

Suppliers of ornamental metal products. Distributes the Lawler Line. Supplies custom components for ornamental ironwork. Custom castings in iron, bronze, aluminum, stainless steel.

## Turks Farrier Supplies\*

Terry Turcotte (owner) 910 Jackson Ditch Road, Harrington, DE 19952. TEL: 302-270-3549. Carries a complete line of farrier supplies.

## Blacksmithing Classes, Workshops & Events

**Nov 6-12, 2005**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Traditional Joinery Projects with Clay Spencer instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Nov 13-18, 2005**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Shaker Blacksmithing with Walt Scadden instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Nov 18-20, 2005**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Beginning Blacksmithing with Lyle Wheeler instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Nov 27-Dec 3, 2005**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing Basics and More with Paul Garrett instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Dec 4-10, 2005**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in A Handful of Skills with Chris Winterstein instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Jan 8-14, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in High-end Architectural Ironwork: Rails and Lights with George Dixon instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Jan 15-21, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in The American Hand-Forged Knife with Jim Batson instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Jan 22-29, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Chasing Steel, Creating Art with Mindy & Mark Gardner instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Jan 29-Feb 4, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing for Home and Hearth with Jeff Mohr instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Feb 5-11, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing—Function and Design with Susan Hutchinson instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Feb 12-17, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Let There Be Light—Candleholders with Matt Jenkins instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Feb 17-19, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing—Starting with Fire with Kenneth Thomas instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Feb 19-25, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Critters with Joe Miller instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Feb 26-Mar 4, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing for Beginners with Chuck Patrick instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Mar 5-10, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing 101: Build a Fire, Go from There with Vance Baker instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Mar 10-12, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Blacksmithing Sampler with Doug Merkel instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**Mar 12-18, 2006**

**Brasstown, NC**

The John C. Campbell Folk School will hold a class in Get It Hot, Hit It Hard with Doug Merkel instructing. For more information or to register, contact: John C. Campbell Folk School, One Folk School Road, Brasstown, NC 28902. TEL: (828) 837-2775, 1-800-365-5724 (toll free), Fax: (704) 837-8637. Web Site: <http://www.folkschool.org>

**March 18 & 19, 2006**

**Smithville, TN**

The Appalachian Center for Craft will offer a class, Making Tools from Scrap & New Steel Demystified with Brian Gilbert instructing. The class is held on Saturday & Sunday, 9am-4pm at a cost of \$180.00. Learn the "basics" from starting the fire and managing it, through the essential process of blacksmithing. Make fire tools or more advanced pieces to gain appreciation for the potential of this craft. Beginning-Intermediate; Materials Fee \$25-\$40 (depending upon use), payable to instructor during workshop. For more information contact: Appalachian Center for Craft, 1560 Craft Center Dr, Smithville, TN 37166, Tel: 615-597-6801, Web Site: [www.tntech.edu/craftcenter](http://www.tntech.edu/craftcenter), E-mail: [gentry@tntech.edu](mailto:gentry@tntech.edu)

**April 22 & 23, 2006**

**Smithville, TN**

The Appalachian Center for Craft will offer a class, Basic Blacksmithing: Create a Coat Rack with Jim Masterson instructing. The class is held on Saturday & Sunday, 9am-4pm at a cost of \$180.00. Learn the "basics" from starting the fire and managing it, through the essential process of blacksmithing. Make fire tools or more advanced pieces to gain appreciation for the potential of this craft. Beginning-Intermediate; Materials Fee \$25-\$40 (depending upon use), payable to instructor during workshop. For more information contact: Appalachian Center for Craft, 1560 Craft Center Dr, Smithville, TN 37166, Tel: 615-597-6801, Web Site: [www.tntech.edu/craftcenter](http://www.tntech.edu/craftcenter), E-mail: [gentry@tntech.edu](mailto:gentry@tntech.edu)

