

Hot Iron News

THE VOICE OF THE NORTHWEST BLACKSMITH ASSOCIATION

Second Quarter 2014





Northwest Blacksmith Association

"To promote and preserve the Art and Craft of Blacksmithing while building friendship and good will."

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Quick Reference for NWBA Members

Submit articles, photos, how-to's to HIN:
nwbainfo@gmail.com

NWBA Website: www.blacksmith.org

For NWBA correspondence or membership, or to change your address (must be in writing) send to:

Northwest Blacksmith Association
4742 42nd Ave SW #185
Seattle WA 98116

Annual dues beginning Jan. 1, 2014: \$60 (foreign, \$70)
Dues include quarterly subscription to Hot Iron News.
Dues may also be paid online at www.blacksmith.org

Want to be sure to keep up to date?
Sign-up to receive email announcements monthly so you don't have to miss another event!
Sign-up online:
<http://blacksmith.org/sign-up-email-announcements/>

The NWBA logo, with the hammer poised above the anvil and the accompanying NWBA acronym, is a Service Mark of the Northwest Blacksmith Association, and is reserved solely for the use of the NWBA, except that anyone may use it to advertise or promote the events, publications, or mission of the NWBA, which is Education in Blacksmithing and Related Metal crafts.

ON THE COVER

NWBA 2014 Conference Demonstration Projects
Ben Czyhold

Three Scroll Trivet

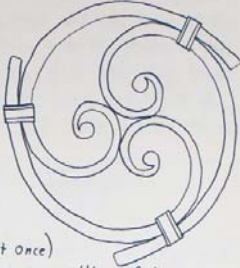
Stock: Scrolls 1/2" sq 21" X3
Collars 3/16" X 3/4" X 11"

Scrolls-

Layout: With a Center Punch mark
1 3/4" from one end on each
bar.

Forging (All three bars forged at once)

1. Chamfer from marked ends to middle of bars.
2. Quench unaltered half of bars to handle.
3. Take short heats and upset bar ends to strong 5/8" sq.
4. Forge edges of the upsets back to give the ends a convex profile. Chamfer and smooth all edges of upsets.
5. To make the bends place the bar end over the horns tip with the mark above and facing to your left. With a wood mallet bend the bar 90° keeping the mark in the center of the bend.
Make sure all legs are the same length.
6. From outside edge of bend measure up the bars 1 1/2". Mark with a center punch.
7. Chamfer from mark back to the first chamfer.



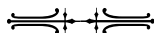
At our conference in May 2014 Ben Czyhold demonstrated forging and assembly of this simple and elegant three scroll trivet. A photograph of the trivet made at the conference is on the front cover. Above is the first page of the notes that Ben provided for the demonstration. All the notes for this project are on page 16.

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SAVE THE DATE:

Blacksmith Week, August 21-24, 2014
Mt. Hood Summit Camp
Demonstrators, Hands-On and more!



Mentoring Center Monthly Events

2014 the Mentoring Center will be host to
Workshops and Open Forges.

For most current info see our online events page:
<http://blacksmith.org/events/>

Upcoming NWBA Events

June 28, 2014: Mentoring Center, Joe Elliot:
Demo and Open Forge, Decorative Forging
of Structural Elements, Afternoon, Bill Apple:
Hammer handles.

Move out after this event, to accommodate July
Cowlitz County Fair.

September 27, 2014: Mentoring Center Event,
TBD

October 25, 2014: Mentoring Center, Jeff
Holtby.

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From the Presidential Scrap Heap

Greetings All Blacksmiths:

I just returned from the NWBA Spring Conference. What a great conference!!! I think most everyone really enjoyed this event.

Dorothy Stiegler and John Williams worked for 3 days forging and assembling a gorgeous bronze bird bath. Dorothy had designed this piece with a glass bowl created just for this piece. Initially it seemed our budget for the demos was getting stretched too thin, so we came up with a less expensive bowl.



Dorothy, as the exceptional artist that she is, felt strongly that the piece wasn't what it should be with the substitute bowl and very generously gifted the original bowl to the NWBA. Now the piece is perfectly completed in the mind of this wonderful artist, which is how it should be. Thank you so much Dorothy and John!

Our own Ben Czyhold put on a great demo producing 3 items using a variety of forging and joinery techniques. His craftsmanship is as perfect as his speech!

I want to thank all the people who gave their time, energy, and talents to make this conference great: our conference coordinators, Bruce Crittenden and Brent Christiansen; Anne Bujold for the library; Lisa Geertsen for the gallery; Mark Manley for the sound systems; Scott Rash and Darryl Nelson for registration; Eric Sprado and Larry Langdon for the auction; the hands-on instructors; and a host of others who worked behind the scenes.

I am already looking forward to the monthly hammer-ins and demos and certainly Blacksmith week at

Government Camp August 21 thru Aug. 24.

As we head into summer I am thinking of how we can do more outreach and education. Our mentoring center is a great start and has been very successful. I want to see us reaching more younger people. Let me know your thoughts and ideas.

Good forging!

Lynn

Treasurer's Report *NWBA Treasurer Scott Rash*



Mentoring Center 1st Quarter 2014

Income:	
Mentoring Center event fees:	\$1,806.00
Bronze workshop fees:	\$900.00
Total:	\$2706.00

Expenses:

Demonstrator fees & handouts:	\$929.08
Propane:	\$570.54
2014 site rental:	\$4,400.00
Library:	\$231.78
Administration:	\$222.08
Total:	\$6,353.48

NWBA 1st Quarter 2014

Income:	
Conference Registrations:	\$1,366.57
Merchandise Sales:	\$157.46
Dues Income:	\$12,476.34
Refund Income:	\$400.00
Total:	\$14,400.37

Expenses:

Communications:	\$4,391.62
Conference Expenses:	\$1,474.67
Administration:	\$688.81
Refunds:	\$25.00
Total:	\$6,580.10

A Note from the Editor *Amy Mook*

Hello NWBA members,

Winter/Spring 2014 has been very busy for the NWBA. Mentoring Center Demo/Open Forges were held January (Darryl Nelson, forge welding), February (Tri Ficker, tong making workshops), March (Dave Tuthill, hammer making) and April (Dean Mook and Darryl Nelson, Norfolk mortise latch), and the Conference ran for 4 days in May. I do hope you were able to attend these events. From my standpoint as a somewhat newcomer (though on the periphery since the early days), NWBA is a very active group with many opportunities for new and long time members alike. And... there is a lot to report on. With limits on time, resources (costs of publication) and few article contributions, I do not always succeed, but, I do try to fill these pages with worthwhile content. I welcome your event coverage, how-to articles, photos of your latest projects, etc. Other members *are* interested in what you are doing!

So much happened at the Conference in May that I have to reserve coverage of the Hands-On events for the next issue of the

Hot Iron News (due out the end of September). Notes from classes and demonstrations will be posted online as available.

Look for these under How-To-Articles and Demo Hand-outs at www.blacksmith.org. If you have pictures and notes from any of the Conference hands-on classes or Mentoring Center demos I would love to publish anything you want to share.

Come to the Mentoring Center on June 28th, starting at 9 AM Joe Elliot will be demonstrating decorative forging of structural elements. Additionally, at 1 PM, Bill Apple will be demonstrating making a handle for a hammer. Open forges will be available in the afternoon.

Thank you for your contributions to the website and *Hot Iron News*, for your encouragement and your criticism, for the opportunity to serve the NWBA,

See you at an NWBA event coming soon!

Amy



The Ninth Annual Village of Government Camp Blacksmith Week

Sponsored by the Cascadia Center for Arts and Crafts

DATE: August 21-24 2014

LOCATION: Historic Summit CCC Camp and Ranger Station.

This event is open to any and all interested in Blacksmithing.

Free onsite camping is limited and on a first come first serve basis.

Event fee is \$50.00 for 4 days or \$15.00 per day.

**Event includes Formal Demonstrators,
Hands On, and Open Forge**



Photographs from 2012
7th Annual Blacksmith Week



Hang out on the mountain, forge with friends and forge strong friendships... a great place to vacation for the whole family... all fun and fun for all!

The NWBA Mentoring Center Monthly Hammer-Ins

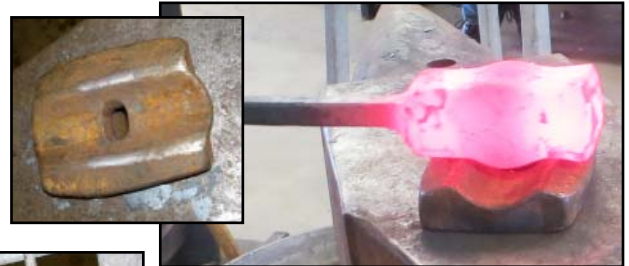
March 22nd, 2014 Dave Tuthill: Making a Hammer

Notes and photos by Hardie Swage

- Parent stock 1 ¼" X 3 ¼" SQ 4140
- Slot is punched after eye center is marked on front and back of hammer blank. To fight "punch suck", use a small tip punch, very hot bar and power. Take special care to punch and drift straight front to back and top to bottom of eye-hole. The ability to correct errors with drift is very limited.
- Eye is started with a small drive through drift. Near the end of the forging the eye will be trued up with a larger hand held drift, will also do the internal hour-glass shape at this stage.
- Small drift will bulge the blank, use a bolster under the hammer blank to support when drift is being driven in and through. Start drift on anvil face, when almost through move to hardie hole. When proud of hammer blank on far side move to bolster over hardie hole.
- With the small drift in the eye upset the hammer face (blank handle welded on) over the far edge of the anvil. Tong held the small drift, small end and stand blank on anvil face.
- Draw the hammer cheeks using the hammer pien and horn. Hammer blank is long way on horn. Will finish on anvil face. Start pien in the center.
- As the curve forms on the front and back of the eye wall, use a curved bolster with a hole for drift to preserve the curve and work the drift.
- Start the pien of the hammer blank using a broad fuller and the horn (crossways) Horn is tapered so work both sides of the pien with fuller and horn, smith and striker switch sides of anvil. Work peen taper down with anvil/fuller. Do the sides of the taper as well to keep things uniform and limit the spread of the pien side to side.



Striker is Rashelle Hams, a regular at Ft Vancouver Blacksmith shop.



Using the fuller to form the pien.



Bottom to top: handled punch, hand-held punch, large and small drifts and bolster



Curved bolster as an anvil saddle

- Cut handle off the blank with a butcher face on a handled hot cut. Work by alternating both sides. Slow but will leave the finished cut very workable.
- David used pick up tongs to great advantage all during the process. See photo below for shape and form of these tongs.
- When hammer body done, use the hand held drift with a chalk mark so will be the same depth on both sides.
- Quench the entire hammer at a “Light Persimmon” or brighter color, no tempering.
- No sharp edges on the hammer, either external or the edges of the eye. Eye edges will have to be filed, external is hammered light chamfering.
- Handle, soak in linseed oil oiver night or hot oil for several hours. Scrape finish off commercial handles. Insure cut in hammer handle will be 2/3 of hammer width. Wood wedge and place metal wedge in line width wood grain of handle.



Broad fuller and finished demonstration hammer



Pickup tongs and butcher hot cut



Thank you David Tuthill for a great demonstration!



The NWBA Mentoring Center Monthly Hammer-Ins

April 26th, 2014 Darryl Nelson & Dean Mook: Norfolk Door Pull w/ Mortise Latch

On April 26, 2014 Darryl Nelson and Dean Mook demonstrated forging a Norfolk style thumb latch, combined with a conventional mortise latch, instead of an open gate style latch. On the inside of the door there is also another Norfolk style handle with thumb lever. The latch box is a very smart, yet simple in concept system, turning vertical movement to horizontal. It involves some careful forging, including the seldom used process of forge brazing with copper wire, or very old pennies (once called penny welding). The pictures here are just a few captures of the demonstration. The project presented is not a small one, at the demonstration Dean and Darryl completed one side plate, handle and thumb lever and the box in the 3 hour demonstration. Many many hours went into the planning and execution of this demonstration, which included a completed set, and a captioned pictorial step by step handout (thanks to Suzan Nelson for the handout), available to NWBA members on our website at the following address: <http://blacksmith.org/april-2014-mentoring-center-demonstration-handouts/>



The attentive crowd.



Forging the handle.



NWBA Mentoring Center

Enjoy and learn: 3 hours of demonstration by a skilled blacksmith, then a hands-on opportunity all afternoon... almost every month of the year...

Join NWBA and enjoy this Benefit!
(schedule of upcoming events on pg. 25)



Forging the thumb lever.



Forging the box.



The full article, a captioned pictorial step by step, is available to NWBA members on our website at the following address:
<http://blacksmith.org/april-2014-mentoring-center-demonstration-handouts/>



Anne Bujold: left, 'Rat', mild steel, 2012
right, 'Somebunny To Love', mild steel, 2012
Photo courtesy Steve Gatke



Logan Hirsh and Anne Bujold: left, 'Kinky Tentacles', mild steel, 2013



Iain Mackai: Chainmail Turtle, aluminum rings stuffed with fabric scraps 2014



Iain Mackai: Maple Leaf, coin forged, 2014



Teeg Mackai: 2014



Teeg Mackai: Rose, 2014



Ries Niemi: Bronze Quill



Ries Niemi: 'One Drink Table', Silicon & Naval Bronze



John Williams: Pierced and filed iron fire-fan with rusted and waxed patine and cocobolo handle.



Dorothy Stiegler and Jacob Hill: Acanthas Scrolls, Study in leaves, 2008 ** also, Bronze Bamboo with Forged Bird, 2010
Photo courtesy Steve Gatke



Gene Bland: Fish with Cattails



Jim Von Mosch: Hands on class, BBQ set, demonstration piece NWBA conference 2014



Chuck Moen: Crow



Dean Mook: Candlestick pair, steel, 2014



Gene Bland: Gecko with bottle opener.



Mark Manley: Lamp



Lisa Geertsen: 'Hold Tight',
Copper & Steel, 2012



Lisa Geertsen: 'In the Clouds',
Copper & Steel, 2012



Lisa Geertsen: 'Support',
cast bronze and forged
steel, 2014



Lisa Geertsen: 'Put Your
Heart Into It', Copper &
Wood, 2012



Lisa Geertsen: 'Harbor View', Steel & Aluminum, 2013
Photo courtesy Steve Gatke



Don Eckler: Tongs made in Basic Blacksmithing at Clackamas
Community College, Bert Romans, Instructor.



R. Freeborn: Coat hook



Skip Kennedy: Replica Anchor: Found off Victoria, BC Canada
waterfront. History documents: 1883 4 ships washed ashore in a
storm., 2 American and 2 British.



Matt Sabo: Drafting Box, work in progress
Photo courtesy Steve Gatke



Ron Selby: Forged rose



Larry Langdon, Monster Metals: Candle Holders, steel



Jim Hatmaker: Bronze bottle opener



Art Neumarkel: Hatchet/Adz, railroad spike



Scott Rash: Steak Turner, 2014

Matt Sabo: Top Tool Mallet (chase & repoussé), Dodge truck axle 1561



Scott Rash: 'Rise of the Marble People', marbles melted into steel, aluminum, 2014



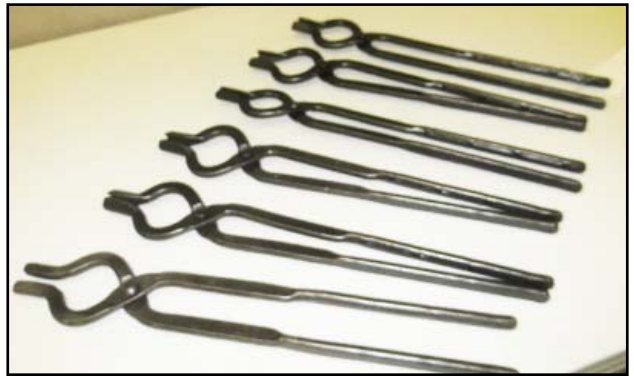
Scott Rash: Candle Holder 2014

Dave Thompson: 'Guardians of the Gate', 2014





Lisa Geertsen: Fire Fork. Diamond Dog Bone twist, also known as a pineapple twist.



Quick and Dirty Tool Company: Set of Tongs



Amy Mook: Candle holder, forged steel



Dorothy Cordochorea: 20.5" genuine Hawk's Eye gemstone and Sterling Silver wire wrap necklace. NWBA conference 2014



Ben Czyhold: Sign Bracket, forged steel. 2014



Rob Hill: Aluminum candle holders



Ben Czyhold: 'Praise to the Rock of the Ages', forged steel and heated rock from Mt. Hood. March 22, 2014 at Meridian Forge



Ben Czyhold: Beaudry tools, Spanner and Crowbar, forged steel, 2013





Teeg and Iain Mackai:
Rotating Candle Holder



Gene Bland



Cori Whitlock: BBQ Forks



Andy Blakney: 'Iron Man'



Terry Carson: Eagle, 2014
photo courtesy Steven Gatke

Editor's Note: Thank you all for your contributions to the Conference Gallery and Auction. There were many more items that were donated and on display that did not make it onto these pages. Reasons for non-inclusion include: I did not have a decent photo of the item, the item was unlabeled, there were many other items by the same artist that were included, space restrictions which required me to make editorial decisions about which to include. In the future, be sure to label your items clearly so we can include as much information as possible when your item is published in the Hot Iron News.

Ben Czychold gave three incredible demonstrations. Each of the three days of his demonstration a new project was introduced and fully executed, with detailed step by step procedural notes posted for all to photograph. The precision of Ben's work and his ability to narrate as he demonstrates is a gift for the serious smith. After watching him make the project and having his notes to follow one can indeed make each project on one's own. Of course, Ben makes it look easy, when he assembled his trivet it snapped together, the pieces fitting perfectly because of his exacting work. Many hours of learning and practice went into the skills that Ben demonstrates, watch him work and he will show you the right way to do it.



Day One Project: Three Scroll Trivet

Day Two Project: Hook Rack with Fish Motif

Day Three Project: Cross

Here are the notes for the Three Scroll Trivet project.

All three project notes are available for NWBA members online in our Demo Handouts section:

<http://blacksmith.org/category/nwba-demo-handouts/>

NWBA 2014 Conference Demonstration Projects
Ben Czychold

Three Scroll Trivet

Stock: Scrolls $\frac{1}{2}$ " sq 21" X3
Collars $\frac{3}{16}$ " X $\frac{3}{4}$ " X 11"

Scrolls-
Layout: With a Center Punch mark
 $\frac{1}{4}$ " from one end on each bar.

Forging (All three bars forged at once)

1. Chamfer from marked ends to middle of bars
2. Quench unaltered half of bars to handle.
3. Take short heats and upset bar ends to strong $\frac{5}{8}$ " sq.
4. Forge edges of the upsets back to give the ends a convex profile. Chamfer and smooth all edges or upsets.
5. To make the bends place the bar end over the horns tip with the mark above and facing to your left. With a wood mallet bend the bar 90° keeping the mark in the center of the bend.
Make sure all legs are the same length.
6. From outside edge of bend measure up the bars $1\frac{1}{2}$ ". Mark with a center punch
7. Chamfer from mark back to the first chamfer.

8. Quench the chamfered length of the bars to handle.
9. Start the snub end scroll place the bar end over the sharp edge of the anvil on the far side. Position the bar so $\frac{1}{2}$ " of the end is off the edge and the rest of the bar held just off the anvil face with the mark in the center of the bend facing down. With half face blows forge in a shoulder to isolate the snub and start a taper off the shoulder. Forge this taper tip no thinner than $\frac{3}{16}$ " X $\frac{1}{2}$ ".

10. Extend taper to $1\frac{1}{2}$ " mark. Maintain $\frac{1}{2}$ " thickness. Forge tapers until all bars measure 21" long from shoulder of snub to outside edge of bend.
11. Chamfer edges of tapers and true snub ends to square.
12. To finish the snubs place the inside corner of the snub on the anvil face. Then strike the upward facing corner to forge them back into the snub, now carefully forge out the four new corners to smooth the edges. Leave the last corner unaltered for now.

To complete the snubs slightly scroll the end of the taper behind the snub to bring the last corner over the transition between the snub and the taper. Now rest the snub on the anvil face with the last corner pointing upward. Forge the corner into the snub and true the snub round.


13. Next scroll the ends just enough so the snub can hook onto the inside of the jig.
14. Take a long even heat on each bar. Once entire bar length is ready quench the snub, hook the snub on the jig, and bend bar around the jig tightly. Use remaining heat to adjust leg to 90° to scroll and make scroll flat.

Collars
Forging

1. With a hot cut chisel cut 2 grooves $\frac{3}{16}$ " in from each edge along the length of the stock.
2. Cool the stock and saw cut the stock into three lengths $3\frac{1}{2}$ " long. Then measure in $\frac{1}{4}$ " from one end on each and use a center punch to mark on unaltered side of collars.
3. Heating all three collars at once, draw short $\frac{1}{4}$ " long tapers (one sided) off ends closest to marks and with detailed side down. Next draw a second one sided taper off the opposite end with its bevel opposite the first.

On other collar ends.

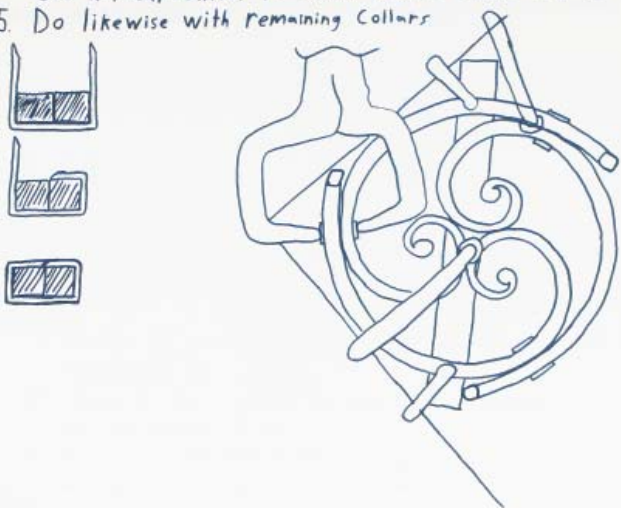
- Collars are Scarfed and ready to be shaped. ONCE COOL clamp each collar in the vice vertically with half of the center punch mark below the top edge of the vice jaws. With shearing blows bend the collars to 90°.
- Using a 1" sq bar 2 1/2" long as a mandril, clamp collar and mandril so first bend is pressed tightly onto mandril. Vice jaws contacting collars corner and opposite corner of mandril. With shearing blows make second bend to complete collars.



Assembly

- After all scrolled bars are cleaned of scale, place all bars upside down on a steel layout table. Place each scroll inside the other so there are six points of contact in the trivet.
- Locate the three points of contact on the outer edge of the trivet. Slide the collars on under these contact points.
- Slide the trivet to one corner of the table with one of the collars on the corner. Slide 3/16" flat bar shims under bars and clamp down bars with C-clamps to keep trivet from shifting.

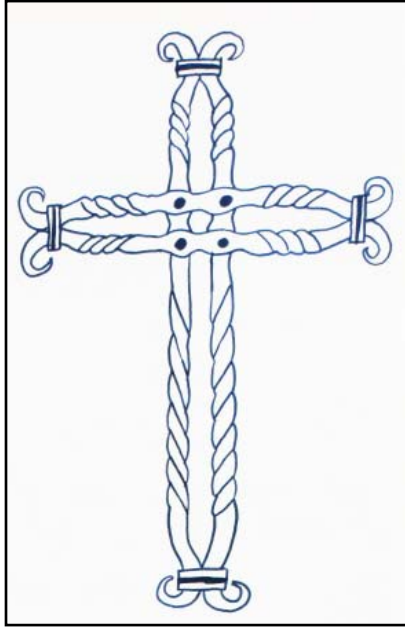
- With a set of deep throat vise-grips, adjust them to grip collar tightly. Now with a torch heat the collar leg with the outward facing scarf from bend to tip. ONCE at a dull yellow clamp the sides of the collar with the vice-grips, then use shearing blows to bend leg tight to the bars. Do likewise with opposite leg, with remaining heat use hot cut chisel to carry grooves across scarf.
- Do likewise with remaining collars.




Day Two Project: Hook Rack with Fish Motif



A crowd gathers around Ben, taking photos of his exquisite notes and thanking him for a great demonstration.



Day Three Project: Cross



Ben demonstrating at NWBA Conference 2014...
THANK YOU BEN!!



Hammer Time Competition Results

The challenge was to take a chunk of W-1 steel, and using only hand tools (slit, drift, punch, flatter, striker etc.), forge a hammerhead. At the NWBA Blacksmith Conference in May, 2014, Bruce Crittenden announced the winners of the competition. Only 4 hammers were entered of the more than ten chunks of steel that were taken.

Honorable mention hammer (the 4th place hammer) went to Jason Brooks. Jason had some work yet to do on his hammer, and Bruce challenged him to finish it... he has taken on that challenge.

Third Place went to Don 'Donk' Kemper, Jr. for his hammer. He had his hammer on display in the gallery, so you might have gotten a good close-up look at his beautiful entry.

Second Place winner was Dean Farmer from Portland, Oregon.

The First Place prize went to Rashelle Hams, also from Portland. Rashelle and Dean, 1st and 2nd place winners, worked on their hammers together at Ft. Vancouver.

Prizes included ABANA DVDs, ABANA t-shirts, gift cards, and a nice package of cut out leafs donated by Brent Christianson. Prizes were solicited from the ABANA central office and they came through.

Thank you Bruce for coordinating the competition, to the 4 smiths who competed, and to ABANA and Brent for their generous donations. To the blacksmiths who took a chunk of steel and did not turn in a hammer... you are not off the hook, we all hope to see what became of your steel.



Jason Brooks: 4th Place



Don Kemper: 3rd Place



Dean Farmer (right):
2nd Place Winner.
Bruce Crittenden
presenting prize.



Rashelle Hams:
1st Place

NWBA Conference 2014

DEMONSTRATORS: Dorothy Stiegler and John Williams



Dorothy Stiegler brought her talented assistant John Williams to demonstrate with her, treating the NWBA to a view of the inner workings of their collaboration. They demonstrate different skill sets, complimentary and additive, so the sum of their work together is greater than 1 + 1. During their three days of demonstrations they worked to complete a beautiful bronze bird bath. With over 350 hours of design and labor in the piece before it even got to the conference, this is a showcase piece.

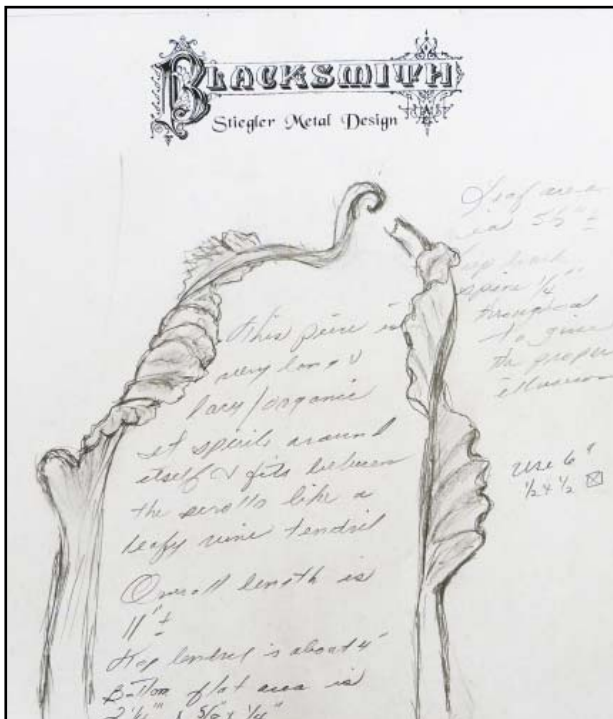
Dorothy and John had designed the bird bath to hold a specific, very beautiful, hand blown blue glass bowl. The cost of the bowl put it over the budget of the NWBA. At the conference, another very fine brown Chihuly bowl was used just for display purposes, not a permanent substitute. So, we were going to keep the completed bird bath without the bowl. Dorothy and



Unfinished Bronze Bird Bath with Blue Bowl

John went on the road home and soon it became very clear to them that they wanted to make sure that the bird bath would always be displayed with its intended blue bowl, the way it was designed to be. Dorothy and John are now gifting the bowl to the NWBA, in addition to the gift of the beautiful completed bird bath. Their generous gift springs from the clarity of their

artistic vision and their commitment to it.. The NWBA thanks both Dorothy and John for their generosity and dedication..



<<< A page from Dorothy's sketch pad illustrating a leaf form similar to what she developed during her first demonstration.

Dorothy used both hand hammer and power hammer to draw out the leaf's ruffled edge shape, showing the difference between the two hammers and the benefits of each.

Dorothy emphasized many times the value of using the flowing nature of the material being forged to achieve life-like effects; a wing in motion or a leaf in the wind. It is possible to straighten and make each piece symmetrical, but this can remove the life-like nature of the piece. Allowing the movement of the piece to influence the final form yet being true to the initial design is a balance between planning and perfection of execution and adaptation.



NWBA Conference 2014

DEMONSTRATORS: Dorothy Stiegler and John Williams



Both Dorothy and John demonstrated bronze forging techniques by forging the final pieces of the bird bath. After their demonstrations they worked for hours, long into the night, to assemble the bird bath. These are artists who care very much about the quality and beauty of their work, and their personal commitment to leaving us with a finished piece.

John and Dorothy shared generously of their blacksmithing skills and artistic experience and talent, a very few of these tips are below:



- Bronze forging is about managing the heat, watch closely, don't walk away, it will one second be there and the next be burned up. Orange to yellow heat is near danger of burning up.

- Forge bronze around the heat that steel needs to go back into the fire. 1000-1800°. Signs that the piece is too cold: hammer doesn't rebound, dark red turned black. Working cold can cause cracks.



- Mills have a limited bronze stock supply, they roll different sizes intermittently. Much of the stock used is forged to the desired size from what was available. Investing in stock when it becomes available may be required. Most of the bird bath was made with 1/2" x 1/2" stock.
- People will find you by your work, which speaks for itself... i.e. Do quality work!
- Use the natural movement of the material to bring your work to life. Making the piece 'perfect' can kill the life in it.
- Why Bronze? Client demand and maintenance free. Dorothy predominantly uses 655 silicon bronze.
- Many clients like an old look with hammer marks.
- After all cleanup work is done, a good rubbed on finish to use is Renaissance Wax.



Forming an element for the bird bath: These photos show the spiral leaf scroll demonstrated by John, and some of the tools used to achieve it.



NWBA member Steven Gatke shared this tip from John with us: "I did receive a particularly valuable tip from John Williams during a demo. He said that he gets a lot of compliments on the accuracy of his hammer strokes. What he does is strike in the same location without moving the hammer around. He moves the part under the hammer with his left hand, this gives him a considerable advantage on striking accuracy. Obviously this does not work on everything, but I can see it working on most of my hammering. That night, at open forge, I put his method to the test, WOW, I've never hammered so good! Granted it will take concentrated practice to break the life-long habit of doing it "wrong" but the payback is huge."

Dorothy and John donated many pieces from their demonstration to our auction, and gifted the NWBA the completed bird bath with the hand blown glass bowl that the bird bath was designed to hold. This is a very valuable, gorgeous bird bath. The proceeds from the sale of the auction items will help support the NWBA, and the bird bath will enrich our archives with a world class sculptural bronze piece made by a world renown woman blacksmith and an up and coming new talent, whom I am sure we will be hearing more from. Thank you Dorothy Stiegler and John Williams, you gave a lot to the NWBA and to everyone who was privileged to see your demonstration and work in the gallery at our Blacksmithing Conference 2014.

NWBA Conference 2014 HANDS-ON CLASSES

Hands-on classes are a big draw at our conferences, and a great bargain for personalized instruction in a small class setting. This conference we had six hands-on classes, teaching a variety of techniques and projects. There is not enough room for extensive articles on the content of the classes in this issue, but look for more to come in the next issue of the Hot Iron News, due out around the end of September, 2014. For those of you using the website, some of the classes provided printed notes, and these will be posted to our How-To Article section of the website, (under RESOURCES).

These were the six hands-on class offerings:

- Martin Brandt - Fancy Twists
- Tri Ficker - Forging Tongs
- Richard Tinder - Steak Turner
- Andy Blakney - Feather Hook
- Lisa Geertsen - Italian Leaf
- Jim Von Mosche - BBQ Set

Thanks to all these instructors, you helped make this a memorable conference.

Pictures and articles coming in the next *Hot Iron News!*

NWBA Conference 2014

TAILGATERS

Photos courtesy Steven Gatke, commentary editor Amy Mook

This year I noticed the tailgaters in a way that I had not at other conferences that I have attended as editor. For many people, hanging out with friends around various tailgates filled with tools and other things blacksmith dreams are made of, is the only thing they come to the conference for. Many people pay their way to the conference and then some with the proceeds from their sales. This is nothing new, but it is the first time I really comprehended how important this part of our conferences are (doh). . . in short. . .

Tailgating is a Great Resource





BUY - SELL - TRADE
 Next conference or NWBA Mentoring Center Event bring your cash and bring your goods. Tailgating is the place to shop, swap and sell. Make a few bucks, make room for new tools in your shop... or find the tool of your dreams.

**Many Thanks to All of Our Volunteers,
 and Thanks Returned from Al Bart Grant Recipient**



Photos of some of our volunteers at the conference.

Clockwise from right:
 Anne Bujold fulfilling her Al Bart Grant requirement to give something back. Here she is presenting some of what she learned with her grant to Eric Sprado.

Darryl Nelson, Dave Lisch helping with the auction.

Andrea Lisch, Betsy Priddy recording auction sales.

Eric Sprado and Larry Langdon our Auctioneers

many many more of our volunteers are not pictured here...

THANKS TO ALL OUR VOLUNTEERS, YOU MAKE CONFERENCES POSSIBLE



If you haven't tried volunteering for the NWBA yet, step up and try it, giving back is its own reward.



Northwest Blacksmith Association

"To promote and preserve the Art and Craft of Blacksmithing while building friendship and good will."

2014 MEMBERSHIP REGISTRATION FORM

The NorthWest Blacksmith Association is a Washington corporation and a 501 (c) 3 non-profit charitable organization founded in 1979. Now over 500 strong and growing. We have something to offer to anyone with an interest in blacksmithing, from the beginner to the serious professional.

Members of the N.W.B.A. receive our award-winning newsletter The Hot Iron News, the opportunity to attend N.W.B.A. semi-annual conferences, frequent hands on workshops and events, and the camaraderie and support of hundreds of blacksmith enthusiasts.

RELEASE OF LIABILITY

I hereby acknowledge that I have voluntarily applied to become a member of the NorthWest Blacksmith Association, NWBA.

I understand that blacksmithing is an inherently dangerous activity that involves certain risks and dangers. I acknowledge and understand that those risks include the potential for bodily injury.

Nevertheless, in full knowledge and understanding of the above risks, hazards, or dangers, I freely, voluntarily and knowingly agree to assume those risks. By my signature below, I hereby agree to assume all responsibility for myself and my property and hereby release and discharge Northwest Blacksmith Association, NWBA; it's members, employees, representatives, associates, independent contractors, and board from any and all claims, demands, damages, expenses, and any other liability for injuries or damages of any description which may occur as a result of my participation in this organization as a member. This Release shall be legally binding on heirs, my assigns, successors, estate, legal guardians, executors and me.

If I am signing this agreement on behalf of another person, I certify that all representations are true with respect to the participant and that I am the participant's legal guardian or custodial parent with full authority to bind the participant and myself to the terms of the Release.

I have carefully read this Release and fully understand its contents. I am aware that in signing this Release I am releasing and waiving certain rights that I may have and enter into this contract on behalf of myself and/or my family of my own free will.

THIS IS A RELEASE OF LIABILITY DO NOT SIGN THIS REGISTRATION FORM AND RELEASE IF YOU DO NOT UNDERSTAND IT OR DO NOT AGREE WITH ITS TERMS.

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*(if you are already registered as a user at www.blacksmith.org your website user account will be updated to allow member privileges only if you use the same email address as the one used to register on the website)

Mail to: Northwest Blacksmith Association
4742 42nd Ave. S.W. #185
Seattle, WA 98116

To apply online and pay by credit/debit card go to: www.blacksmith.org

Dues are:

\$60 in U.S.A.

\$70 outside U.S.A.

New Member

Renewing Member

NWBA membership is valid for one year from the date of signup. Renewals are sent out on a quarterly basis, look for your renewal letter sometime in the 3 month period around the anniversary of your registering for membership.

Blacksmithing Schools Around the Northwest

Backwoods Blacksmith

Between Sutherlin and Elkton Oregon on Hwy 138.
Instructor and owner is Gene Bland
Beginning blacksmithing, tool making, organic and garden art.
541 459 2879
bland2879@yahoo.com

Clackamas Community College

19600 Molalla Avenue
Oregon City, Oregon 97045
Phone: 503-594-6000
Website: <http://www.clackamas.edu/>
Offering blacksmithing classes under the Welding Technology program.

Clatsop Community College

1651 Lexington Avenue
Astoria, OR 97103
Phone: 503-325-0910
Toll Free 1-855-252-8767;
website: <http://www.clatsopcc.edu/>
Blacksmithing classes are taught through the Historic Preservation Program

Earth, Wind, Fire & Ice Forge

Ridgefield, WA
360-887-3903
To register for a class contact Don Kemper at the number above.

Incandescent Ironworks Ltd.

Spokane, WA
509-456-8321
At Incandescent Ironworks I teach introductory and intermediate blacksmithing, introductory and intermediate knife making, and tailored instruction on selected smithing topics.
Contact: Steve McGrew:
stevem@incandescent-iron.com
www.incandescent-iron.com/blcl.html

Meridian Forge LLC

37010 Meridian East
Eatonville, WA 98328
360-832-6280
Contact: Darryl Nelson: meridianforge@hotmail.com

Old West Forge

PO BOX 2105
White Salmon, WA 98672
(509) 493-4418
For additional details contact Tim Middaugh:
tim@oldwestforge.com.
Current classes are listed at www.oldwestforge.com

Pratt Fine Arts Center

1902 South Main Street
Seattle, WA 98144
<http://www.pratt.org/>
Phone: 206.328.2200
Fax: 206.328.1260
Email: info@pratt.org

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Seattle WA 98134
email David Lisch: studio4@davidlisch.com
Current class schedule is at DavidLisch.com - Learn More at Studio 4

Thorne Metals Studio

13751 Daybreak Ln
Anacortes, WA 98221
(360) 293 8257
Current classes are listed at:
<http://learnblacksmithing.com>

Editor's note: As a 501(c)3 non-profit organization there are limitations to how we are allowed promote our members' businesses. The listings will now include contact information and one descriptive sentence for your school, a policy subject to change.

To publicize your class you may send your event listing to the editor for inclusion in our online calendar. A short paragraph about the class and time, location, and fee information only please.

Please send information about your events, school and class listings to nwbainfo@gmail.com

CURRENT EVENT: As listed online (<http://blacksmith.org/events/>)

June 28	NWBA Mentoring Center, Joe Elliot, Decorative forging of structural elements. Additional afternoon session with Bill Apple, Hammer Handles. Move out after this event, to accommodate July Cowlitz County Fair.
July 19	Swap Meet: Dragon Fly Forge & Studio 4 Forging Facility LLC
July 19	Metalfest: Forge George Brewery, Astoria, Oregon
August 13-16	ABANA Conference 2014: Delaware State Fairgrounds, Harrington DE
August 21-24	The Ninth Annual Village of Government Camp Blacksmith Week, sponsored by the Cascadia Center for Arts and Crafts, at the Historic Summit CCC Camp and Ranger Station
September 27	NWBA Mentoring Center, TBD
October 25	NWBA Mentoring Center, Longview, WA, Jeff Holtby, demonstration TBD
November 22	NWBA Mentoring Center, Longview WA Demonstrator TBD

Take advantage of your membership benefits and SEND IN YOUR ANNOUNCEMENTS FOR THE WEBSITE CALENDAR AND THE HOT IRON NEWS to nwbainfo@gmail.com or submit it online: <http://blacksmith.org/submit-event/>

Announcements

**The Ninth Annual
Village of Government Camp
Blacksmith Week**

sponsored by the
Cascadia Center for Arts and Crafts

**August 21-24 2014 at the Historic
Summit CCC Camp & Ranger Station**

This event is open to any and all interested in Blacksmithing. Free onsite camping is limited and on a first come first serve basis.

Event fee is \$50.00 for 4 days or \$15.00 per day.

**Event includes Formal Demonstrators,
Hands On, and Open Forge.**

NWBA's Mentoring Center is a great place to learn blacksmithing from fellow smiths. The NWBA welcomes beginners and experts alike to come enjoy the benefits of your membership, come to the Mentoring Center events. Look for announcements of upcoming events... not yet receiving our informative monthly email announcements? Sign up online: <http://blacksmith.org/sign-up-email-announcements/>
Tell your friends to join today, so they can start enjoying the benefits that are available right now to you as an NWBA member.

The editor of the Hot Iron News wants your pictures and your articles.

If you have pictures from past conferences and NWBA events, or if you have great notes from a conference demonstration, or if you have pictures of a project that you want to share, PLEASE SEND THEM TO US, email to nwbainfo@gmail.com or by mail to: Northwest Blacksmith Assoc., 42nd Ave SW #185, Seattle, WA 98116

Announcements that are of general interest to blacksmiths and not specifically in the business interest of an individual will be printed free of charge in the Hot Iron News, at the discrepancy of the editor and within the guidelines of the NWBA Board of Directors. Submit your announcements for publication in the NWBA Hot Iron News and our website.

Mail to: Northwest Blacksmith Assoc.
42nd Ave SW #185
Seattle, WA 98116

Or email to:
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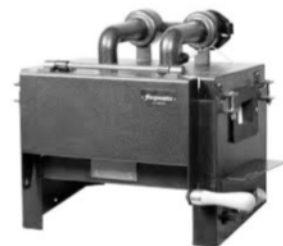


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Classified Ads

Free to members, \$10 for non-members
Classified ads are 50 words, text only.

Whitlox Wood-Fired Forges are specially designed for forging with raw wood or charcoal fuel. All our forges are made from 11 gauge steel and double lined with kaowool and firebrick for super long life. Use discount code NWBA for a \$50 discount on any fullsize forge at www.whitloxhomestead.com. Phone: 503-952-6540

For sale: Quality blacksmith coal, coke and charcoal.

Contact Jim von Mosch at Mountain Brook Forge 509-493-2246 or

Mountainbrookforge@gmail.com for price and availability.



Honesty is the Blacksmith's Policy. It has oft been commented that a cash jar or box can be left out at a conference with no worries of theft... here is an unattended one at the NWBA 2014 Conference.

Advertising Submissions

Mail to: NWBA
42nd Ave SW #185
Seattle, WA 98116

email to: NWBAinfo@gmail.com
or submit online: <http://blacksmith.org/hot-iron-news-advertisement-submission-form/>

Download Ad Specification and Pricing Sheet online at: <http://blacksmith.org/advertising-hot-iron-news/>

If you have any questions do not hesitate to contact editor Amy Mook at nwbainfo@gmail.com



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Proud Members of the NWBA

Al Bart Grant Information

The NWBA's Al Bart Memorial Grant is open to anyone interested in learning about and spreading the knowledge and interest in the art and craft of blacksmithing. Find out more details and download the application at our website: <http://blacksmith.org/al-bart-grant/>

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NWBA Library set up at the Conference May 2014

Many people took an opportunity to sit and rest while perusing books in the library.

Thank you Anne Bujold for bringing the books and setting up the library at the conference, and for taking on the position of Librarian.