

# Hot Iron News

THE VOICE OF THE NORTHWEST BLACKSMITH ASSOCIATION

Second Quarter 2019



[www.blacksmith.org](http://www.blacksmith.org)



NWBA

40 TH ANNIVERSARY  
CONFERENCE



# Northwest Blacksmith Association

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

## Board of Directors



### President

Lee Cordochorea  
PO Box 3940  
Hillsboro, OR 97123  
503-887-1697 [thingmaker3@gmail.com](mailto:thingmaker3@gmail.com)



### Vice President

Kellen Bateham  
62200 Deer Trail Rd  
Bend, OR 97701  
541-550-6370 [stochasity@gmail.com](mailto:stochasity@gmail.com)



### Secretary

Clayton Tupper  
637 Ocean Shores Blvd. SW  
Ocean Shores, WA 98569  
509-992-8405  
[tupperck@gmail.com](mailto:tupperck@gmail.com)



### Treasurer

James von Mosch  
858 Snowden Rd.  
White Salmon, WA 98672  
509-493-2246 [jim@mountainbrookforge.com](mailto:jim@mountainbrookforge.com)



### Director

John Huffstutter  
2331 Burnt Valley Rd  
Chewelah, WA 99109  
509-220-9623 [huffjd78@gmail.com](mailto:huffjd78@gmail.com)



### Director

Spencer Knight  
19940 Poplar St.  
Bend, OR 97702  
313-268-8412  
[spenceknight89@yahoo.com](mailto:spenceknight89@yahoo.com)



### Director

Silas Maddox  
330 Metcalf St.  
Sedro Woolley, WA 982984  
206-200-7019  
[silasmaddox@gmail.com](mailto:silasmaddox@gmail.com)



### Director

David Tuthill  
1415 NW 49th St.  
Seattle, WA 98107  
206-229-6008  
[firehorseforge@gmail.com](mailto:firehorseforge@gmail.com)

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- *Swaptoberfest Subcommittee:* David Tuthill (Chair), Silas Maddox
- *Safety Subcommittee:* Lee Cordochorea (Chair), John Paul, David Tuthill
- *Mentoring Center Subcommittee:* Clayton Tupper (Chair), Lee Cordochorea (Steward), Silas Maddox

**Nominations & Elections Committee:** Jim Garrett (Chair), Amy Mook

## Quick Reference for NWBA Members

Submit articles, photos, how-to's to HIN:  
[nwbainfo@gmail.com](mailto:nwbainfo@gmail.com)

NWBA Website: [www.blacksmith.org](http://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

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Dues may also be paid online at  
<http://blacksmith.org/membership-payment-gateway/>

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**have to miss another event!**  
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## ON THE FRONT COVER



Anton Yakushev gifted this beautiful commemorative NWBA 40th Anniversary sculpture to us. The article about Anton's demonstration begins on page 6.

## ON THE BACK COVER



Japheth Howard forging a half-round ring on the end of the Shepherd's Crook. The article of Japheth's demonstration begins on page 12.

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### ***NWBA Board Meeting*** **July 27, 2019 1:00pm~4pm**

Longview Public Library  
1600 Louisiana St., Longview, WA  
All current NWBA members welcome.

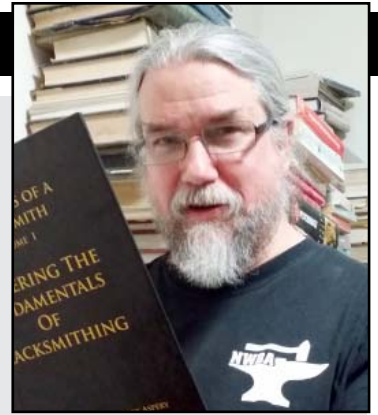
Or join online, connection info available online  
<https://blacksmith.org/events/nwba-board-meeting-july-27-2019/>

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## A Word From What's-His-Name

Hello, Everyone!

A big “thank you” to so many folk who worked so hard to make our 40th Anniversary Conference so very good! The Cook Shack is working out beautifully, the new video systems are mostly functional, and the Tree Project is off to a great start! If you couldn’t make this Conference, you can at least read about it on pages 6- 35. Look for the Cook Shack again in October! Look for the Tree Project to continue this summer. Look for NWBA video online as soon as we can figure out which hammer to use on the editing software.



At the Conference, many NWBA members approached board members with excellent observations & ideas and helpful criticism. This is wonderful! Please keep doing this! Our contact information is found at <https://blacksmith.org/board-directors/> and on the inside cover of this Hot Iron News. You’ll also find a list of who’s on which committees.

Here’s an exciting announcement: We now have Youth Program Subcommittee in place. (It's part of the Member Services Committee.) They’ve already devised the following mission statement: “To provide a safe and inclusive space for youth to cultivate their creativity, critical thinking, and problem solving skills through the craft of blacksmithing.” Stated goals of the Subcommittee are to: provide an educational experience with a focus on safety and technical knowledge; focus on inclusivity and a variety of age groups; promote skill building/sharing; provide some fun! I anticipate some policies to be in place by the end of the year with implementation following shortly thereafter. One certainty is that Quarter Year memberships are available to qualifying youth. (This are also available for first-time NWBA members of any age.)

Wednesday July 24th through Saturday July 27th will see our Open House at the Cowlitz County Fair. Please come help us greet the public - it’s a fun time! We’ll set up for company on July 20th - open forge time in the morning with cleaning and arranging in the afternoon. August 24th we’ll set up our Mentoring Center as a Mentoring Center again - maintenance in the morning with open forge time following.

At the July Board meeting, the choice of whether to move out of the old Mentoring Center (building #6) and into the larger building next door (building #5 - Agriculture building) will be finalized. The larger space would allow a secure but accessible space for permanent display of our Archives. Moving the

equipment and tools would ideally happen prior to Swaptoberfest, but the plans are still being feverishly concocted.

August 14th through 18th the folk at Cascadia Center For Arts & Crafts will again host Blacksmith Week. I’m told that a spaghetti feed has been planned. We can expect an ensemble of experienced demonstrators. The Cascadia Center’s website (<http://www.cascadiaart.org/>) has the latest information and updates on this event. The Center has been responsible for Blacksmith Week since the beginning, and they continue to strive for excellence. We of the NWBA applaud the ongoing work of our affiliates.

Swaptoberfest III takes place October 25th - 27th (save the date!). Start working on your contest entry now: “Forge Your Own Mess Kit” (to use for the weekend) - Prizes awarded for creativity and craftsmanship! (AND we’ll be filling the dumpsters more slowly.) Kurly’s will be returning along with The Cook Shack. Demonstrations and forging contests are planned, of course! More information is available page 43 of this Hot Iron News.

Next spring, our Conference will be neither on Mother’s Day weekend nor Memorial Day weekend, but neatly nestled between them. Save this date: May 15th - 17th, 2020!

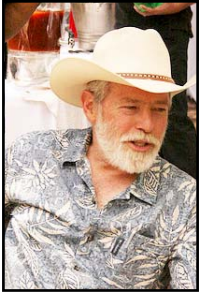
In the meantime... ..Stay Inspired!

-Lee Cordochorea

(You pronounce that just like it’s spelled.)

Schedule of Upcoming Board of Directors’ Meetings:  
July 27, 2019 at 1:30 pm in the Longview Library  
October 19, 2019 at 11 am in the Longview Library  
January 25, 2020 in the Longview Library

**Any NWBA member is welcome to attend in person, or telecommute** via “GoToMeeting.” Check your NWBA email Announcements or go to [blacksmith.org](https://blacksmith.org) for the link.



## Treasurer's Report *NWBA Treasurer Jim von Mosch*

### Jan-March 2019 Financial Report

<b>Ordinary Income/Expense</b>	
<b>General Income</b>	
Membership Dues	<u>4,005.00</u>
Total General Income	4005.00
<b>Mentoring Center Income</b>	
Event Fees	<u>20.00</u>
Total Mentoring Center Income	20.00
<b>Conference Income</b>	
Registration Fees	720.00
Banquet Fees	75.00
Camping Fees	32.42
Merchandise Sales	<u>60.00</u>
Total Conference Income	887.42
<b>Total Income</b>	<u>4,912.42</u>
<b>Gross Profit</b>	4,912.42

<b>Expense</b>	
Square Fees	1.65
<b>General Expenses</b>	
Advertising	2000.00
PayPal Fees	213.86
Board Meeting Expenses	300.00
Communications Director	6000.00
Internet Fees	120.00
Postage & Delivery	107.03
Printing and Publishing	<u>2,0566.64</u>
Total General Expenses	10,797.53
<b>Mentoring Center Expenses</b>	
Site Rent	5,500.00
<b>Conference Expenses</b>	
Refund	60.00
Banquet Expense	<u>-25.00</u>
Total Conference Expenses	35.00
<b>Total Expense</b>	16,334.18
<b>Net Ordinary income</b>	-11,421.76
<b>Net Income</b>	<b>-11,421.76</b>



### A Note from the Editor *Amy Mook*

Hello NWBA members,

It's been a bit hectic over here, working hard to get this edition of the Hot Iron News to you, with the conference a couple weeks later than usual this year it is getting to you a bit later than usual. Also, a few things are not going to make it into these already full pages. I hope to include what is missing in the next issue; The repoussé station, this year bigger than ever is unfortunately not included. A few of the hands-on classes are not here, Berkley Tack's H-13 chisel, and super quenching with Hunter Dahlberg, Kellen Bateham and Mark Manley. Also, I did not catch the details about the Friday night forging contests, and did not get photos of much of the tailgating, the food extravaganza, or of the auction and the auctioneers. Well, that is a whole lot of excuses!

What is included? A full gallery and auction section, articles on our main demonstrators Anton Yakushev and Japheth Howard (both amazing), Hands-On classes by Ben Czyhold and Lisa Geertsen, a Mentoring Center class by Kellen Bateham, and a recap of our Association Tree project. In short, a full issue with lots to peruse.

There were a lot of events at the conference that are hard to put into print. Japheth Howard gave a wonderful slide show lecture about his work and experience. A big part of the NWBA archives were on display and some of our members who were there when those demonstrations happened gave a

tour. You may have missed the tour, but much of the archives are online at:

<https://blacksmith.org/conference-archives/>  
(the gallery needs updating, our newest archive additions are not yet included)

A big highlight at the conference was a video premier. The video was commissioned by the NWBA about the NWBA and featured many of our long time members and a few new members too. You will be able to view it when it is published online, I will be sure to let you know where you can find it. Make sure to get on the mailing list so you receive our monthly news.

<https://blacksmith.org/sign-up-email-announcements/>

As many of you know, I am going to be leaving the NWBA as editor and website administrator (I will still be around, no sad goodbyes please!). I am looking for someone to take my place and will do my best to find someone who will love and serve the NWBA with excellence and pride. I have already spoken to a couple of interested people, but no decisions have been made. If you have web management and editor skills and are interested in a quarter to third time job, drop me a line and we will talk.

Gratefully and Respectfully yours,

Amy Mook, NWBA Editor  
[webmaster@blacksmith.org](mailto:webmaster@blacksmith.org)

## Demonstrator:

### Anton Yakushev, Kolumna Russia

Only 32 years old, Anton Yakushev is already a very accomplished, talented and gifted artist blacksmith. Many of those taking in his demo marvelled at what heights he will reach in the years ahead. He is also very hard working. His sculptural project, a warrior, though small was very complex. In order to have the time to finish his project in his allotted six hours, he spent hours ahead of time in the Mentoring Center in preparation, and time after the demo mounting the warrior on a stand. It is now one of the more outstanding pieces in the NWBA archive collection.

Anton had previously only demonstrated at venues where the crowd is mostly passing by, like at fairs where people stop by for a few minutes and then stroll on. He was not prepared for the riveted attention of the



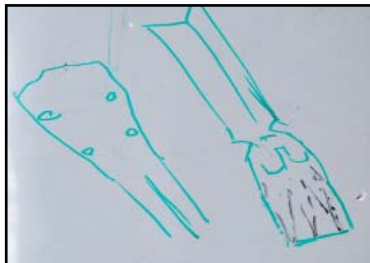
Anton and his wife Kate.



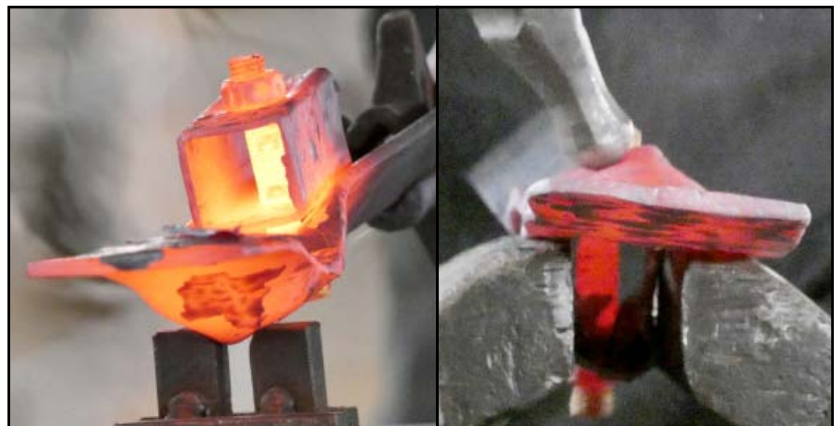
NWBA crowd, and he appeared quite humbled

by our praise and admiration. He worked silently, due to limited English skills and previous demonstration experience, his gracious wife Kate providing any necessary commentary, though that was scarce, his tools and action spoke volumes.

Anton's masterful drawings are his guide for blacksmith projects, with every detail drawn accurately to scale. The warrior was made up of many intricate parts, each forged with intent and in precise order. This article is composed of photographs of his process, with captions providing minimal explanation, a dim representation of his majestic command of his tools and his artistic brilliance.



A sketch of the first piece forged, the face and foundation of the body, and sample similar to the piece forged at the demo.



Forging the facial features. Tubing bolted to stock as a means of holding it in the vise.



Forging more detail in the face using the edge of the anvil.



Splitting hairs with the chisel. Far right: hair textured and neck fullered in.





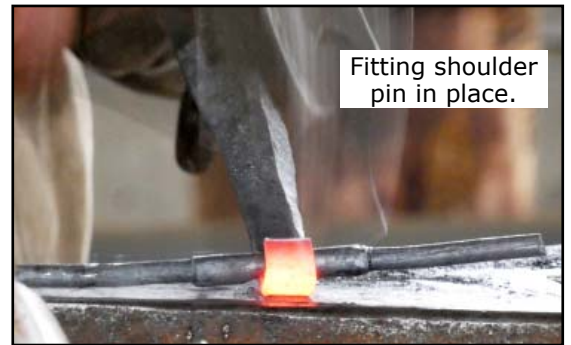
Forging body core.



Body core further along, like the example, seen above and at right, with the shoulder rivet pin for attaching the arms in place.



Swaging the shoulder rivet pin with a guillotine swage.

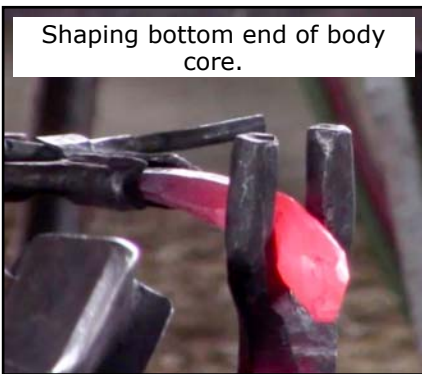


Fitting shoulder pin in place.



Shaping bottom end of body core.

Fullering bottom (fat) end of body core and cutting it to length.



Left and above: Rivet for attaching legs to body core in place.

Anton Yakushev, continued...



Forging legs, comparing often to make a matching pair.



Creating the inset where the rivet will go when attaching the leg to the body core.



Final formed leg.



Left: Texturing swage used to texture winding straps. The straps will be used to wrap body and wrap around legs.



Riveting leg to body core, textured wrapping strap in between body core and leg, not easily visible in these photos.



Legs riveted to body core and wrapped with textured straps.



Hardie tool for riveting, long end of rivet rests in hole.

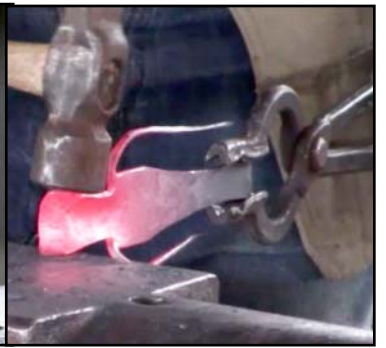
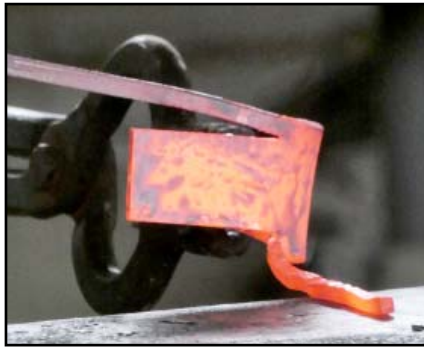


Above left: Cutting in fingers. Other pics above and left: Bringing the hands to life with deliberate and patient forging. Many minutes went into getting the hands and arms to look exactly as Anton wanted them to be.

Anton Yakushev, continued...



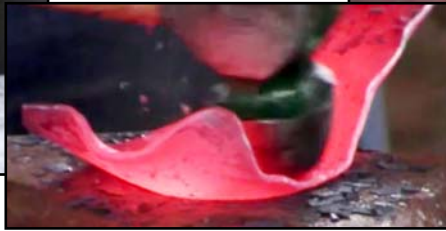
Final hair styling before completing the assembly.



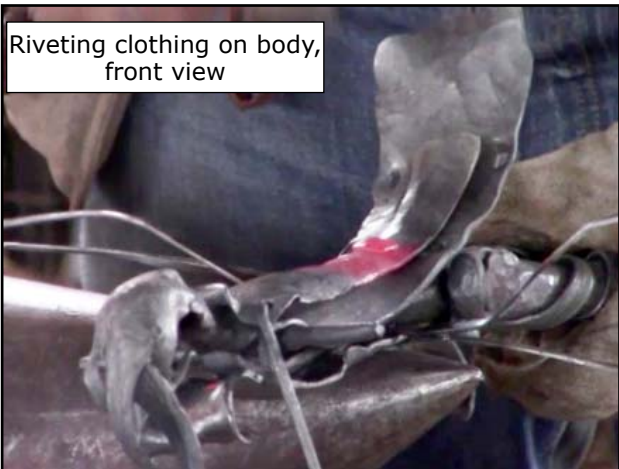
Above and two below: all in one back piece, back collar and straps for binding tunic clothing together.



Left and below: chest piece



Riveting clothing on body, back view



Riveting clothing on body, front view

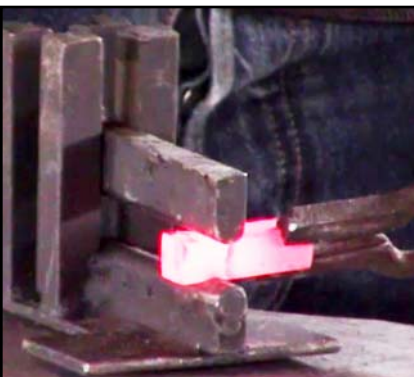


Stitching it all together. Carefully heating the straps and threading them through the wholes in the clothing pieces.

It is impossible to exaggerate the care, planning and deliberateness of each hammer blow and plier twist.



Arms get divots for rivets, and are attached at the shoulder rivet pins.



And to complete the warrior ensemble, a carefully crafted war hammer.

Anton has a very unique combination of blacksmithing and drawing skills. Nothing was haphazard or serendipitous in the execution of this warrior. Though he may play with ideas in his drawings, when hammer hits metal he knows where he is going and knows what to do. No detail is spared, every turn of the collar and wisp of hair is already in his minds eye before he begins his work... or so it appears.

NWBA was very fortunate to have Anton demonstrate at our 40th Anniversary Conference! I believe we will one day say "We knew him when..."

Thank you Anton!

See more of Anton's work online:

<https://www.facebook.com/anton.yakushev.731/>

<https://www.instagram.com/anton.kovka/>

Completed and mounted Warrior. See larger image page 25.



# Conference Demonstrator: Japheth Howard

Article by Ike Bay, Photography by Dan Bowyer

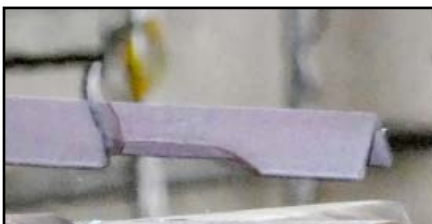
Japheth Howard Demo notes, NWBA spring Conference, Longview, WA May 2019

Article by Ike Bay, humble scribe

Demo: Shepherd's crook w/ iron hook on wood shaft with cast pewter highlights.

Japheth's journey in life and his craft has been diverse, going from the study of archeology to professional smith with many twists and bends along the way. Has grown in his skills and knowledge, working and learning in America, England and Canada, where he now resides. So there is a historical thread to his work. Credit was often given to his mentors, none more often than Darryl Nelson. "What Would Darryl Do" (WWDD) was heard repeatedly, talking about Darryl's unique ability to find root causes and solutions in the problem solving and discovery that makes up much of this craft.

*"The blacksmith makes things people need."*



Bending out ear.

Starting with some angle iron and a tong held curved chisel, ears were cut, shaped, scrolled and laid back against the parent stock. Ears were forged one at a time, first on one side and then the other. Spacing is by eye ball but very close, rather than meticulous layout with rule and scribe, adding to the handmade effect. Scrolls curve to the angle iron's center ridge. Later this would be welded to round stock with a tapered end that will become the hook. A half round collar, below which a wide/thin tang is forged will complete the piece. A robust copper cutting block was used under the curved chisel. The chisel has a very refined cutting edge more like a wood tool. The ear is lengthen using a handled hot cut. For straight cuts Japheth mostly uses the edge of the anvil rather than the block. The cutting edge meets air when the cut is completed. The ear is bent 90 degrees outward from the parent stock, drawn out, and scrolled. When bending back on the parent bar surface a light tong holds/protects the scroll while bending with hammer blows, thus avoiding distortions.



Tong held ear, hammer hits tong not ear.



Finished ear in place.



Making ear straight cut.



Using the Hardie tool.



"Deer hoof" tool used for bending ears, pushes without marring.



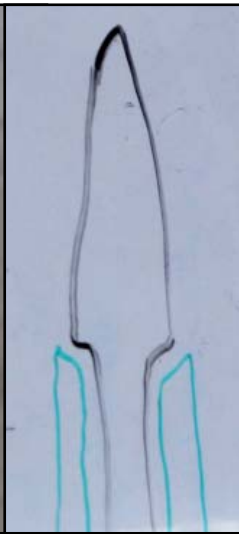
Curved hot cut.



Six finished ears in place.



Starting rectangle section behind point.



Folding angle iron using bar stock as internal anvil



Everything in place, fluxing for weld.

Approximately 3 inch taper forged on the end of the round stock. Behind the taper a rectangle cross section is formed to take the folded angle iron w/ scrolls. The edges are rounded to accommodate the inside radius of the folded angle iron. The ends of the folded angle iron have been beveled to form the scarf for the welding.



Welded!



Welding back end in half round swage.



Back end view.

## Japheth Howard, continued...

A half round collar was welded just below the end of the applied angle iron and a centered tang about 1/4" in thickness and wider than the parent bar was forged below the collar. This is later dressed down to match the wood staff after being riveted in place. The half round collar stock was forged from undersized round stock in a half round swage. Don't forge 1/2" round bar to 1/2" half round, no room for the excess material to move to. The collar material is cut to a length that does not have the ends touching when it is wrapped around its future home. The ends meet when the weld is complete. Without this gap the ends interfere with the inside of the collar being welded to the shaft.



Welding collar on back end below angle iron.



Cut tang end to length below collar with guillotine.



Forging centered tang, ~1/4" thick.



Used last of welding heat to cant back end. Note pickle finish, piece soaked overnight in phosphoric acid solution.



Guillotine butcher, front and side view



Cant and reverse scroll done, now for main bend.



One fork in vice, one in hand.



Finished Shepherd's crook.



Flattening tang to fit slot in wood.



Testing the tang's fit.



Riveting iron crook to wood shaft.



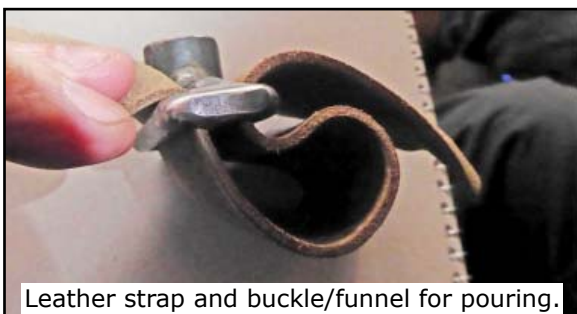
Carving decorative elements into wood. Note gap between top of wood shaft and bottom of the half- round collar.



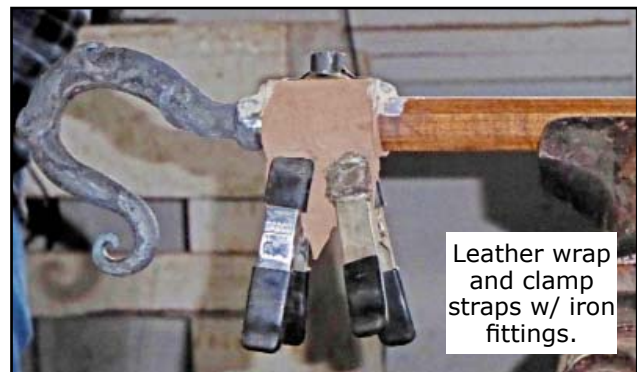
Pour ready, potter's clay dams gaps.

Once the iron hook and the wood shaft were riveted together, pewter was poured to fill gaps and add decorative elements. Wood was removed to create wrap around channels that would be filled with poured pewter as well as the deliberately left gap between the top of the wood shaft and the bottom of the half round collar on the hook.

The pewter below the collar helps secure and strengthen that union. Leather wrap and clamp straps w/ iron fittings form a defined space to take the pewter pour. The inside of the link makes the pour funnel; one of his strap irons had a funnel as part of it. Dam the gaps with clay (stoneware, i.e. potter's clay, avoid red earthenware clay with lots of iron as it may stain) A small amount of rosin, the kind used in violin bow strings, is a flux and helps remove impurities in the molten pewter. Do not over heat pewter, don't want any yellow or blues in color, just bright silver and liquid. Proper heat is in the 400 degree range so will not harm a blades temper in knife handle applications. When properly heated want no oxidation, or roughness on the surface. Over heating changes the alloy and will give you extra shrinkage. Spring clamps hold the leather wraps in place. The poured pewter should be proud of the finished surface so it can be dressed down to a very clean surface with no pits or valleys.



Leather strap and buckle/funnel for pouring.



Leather wrap and clamp straps w/ iron fittings.



Pouring carefully



Cooled pewter, pouring funnel yet to be removed.

## Japheth Howard, continued...



Pewter detail on bottom end of wooden shaft of the Shepherd's Crook.

Decorative and functional pewter details in old eating utensils



### Blacksmith fundamentals from Japheth:

The basics are the anvil and post vice with lots of tools and no extraneous tools. ALWAYS preplan your forging sequence. Work in harmony with the materials so you don't over work yourself. Use your head to problem solve

(WWDD). The vice can squeeze, pinch, press, hold and more use to fullest advantage. Many of Japheth's tools are made from repurposed salvage. He scored a number of rail road pry bars and that has been good source. Working ends are heat treated, struck ends left alone. Engage in lots of critical thinking, always checking out new ideas and reevaluating your own processes. Forge welding opens opportunities, not to be avoided and it teaches you a lot about the material. It is also often a more efficient method in time and effort. In the welding work he talked about heating the "metal all through," this he learned in England. Watch the flux when forge welding in a gas forge. Heat piece so no shadows and the flux bubbles like a newly poured 7-UP. Anhydrous borax works for most gas forge welds, Easy Weld for solid fuel forges. Sometimes mixing both can be a benefit. In solid fuel forges you are looking for that high yellow in the heart of the fire. Keep rotating the piece as heat mostly comes from the bottom. Gas forges offer heat from all directions but have hot and cool spots that need to be understood. On the collar weld the sound of the blows may tell you when the weld has taken. Phosphoric acid is a good pickling agent to remove forge scale and borax residue. About a 10 percent solution over night is very effective, and it is more benign than some more aggressive acids, it is used to clean dairy equipment. Leaves an iron phosphate surface that does not want to start rusting as soon as it hits the air. Clean with aggressive application of a wire brush.

### Cool Tools & Materials:

. Tong and handled hot cuts. Light weight so the power of the blow goes through to the cutting edge. Thin, polished cutting edges are pampered and cared for. They cut down on the rag edge of the completed cut.

. Robust "V" jaw tongs, some 30 year old Poz tongs made from 1/4" X 1" stock and new ones plasma cut. The jaw areas are upset so the sides of the "V" are the thickness of parent stock. Lots of strength in the rivet boss and tapered reins that are gentle in the hands. Black Bear Forge has great video's on making Poz Tongs. (5/8' & 3/4" are the old tongs)



Robust "V" Jaw Tongs. Tong jaw thickness is impressive!







Plasma cut tong blanks

. Box Jaw tong soap stone holder w/tension ring incorporated. Forged from 3/8" round stock, saw some made from naval bronze in an Art Jones 1984 demo.



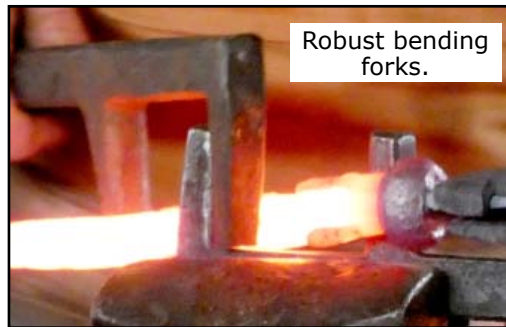
Soapstone holder mini box jaw tong.

. Hardie mounted mini anvil with a flat top and tapered arm to help reach into hard to get places. Mark Manley makes great ones, check them out at the next conference.



Hardy mounted mini anvil.

. Robust bending forks. Used two in tandem, one clamped in vice the other torque by hand to help in basic curve of hook. Hot hook held by "V" jaw or box jaw tongs to give a strong hold when aggressive torque applied.



Robust bending forks.

. Welding hammer was lighter than basic forging hammer. "Bigger hammer" is not always the right answer, lighter hammer and proper technique works most often.

. "Deer hoof" Push bar was a Darryl Nelson idea, with a polished angled face with gentle radius and a slight lip on the protruding edge. Does not mark the material being moved and puts the held end above the work and easily struck with a hammer. (see photo top of page 13)

. Leather straps with iron fittings used as dams for pouring pewter. Leather does not scorch as you think it would. One strap had build in funnel that filled with pewter during the pour, and had to be drained with heat from a torch. Pottery type clay used to fill small gaps left by leather. (photo page 15)

. Auto body files to dress pewter, made his own handle/frames. Did not use on any other type material so they stayed sharp.

. Hardie mounted guillotine butcher with rather tight tolerances, cut clean and does not wobble in hardie hole or blade guides.(photos page 14)

. Track of the Wolf sell two types of pewter. Other sources can be found on line. Pewter used in this project was 92% antimony, chosen because it had the lowest melting point.

Japheth Howard is an entertaining and informative demonstrator! His demo was full of excellent technical and practical advice, experience anecdotes and humor, and the demo was perfectly timed. He demonstrated at NWBA's 30th Anniversary Conference with his wife Alice James, hope we don't have to wait another 10 years to get him back. Thank you Japh! ~ Editor

See more of Japheth's work online:  
<https://www.flickerforge.com/index.php>  
<https://www.facebook.com/flickerforge/>

# 40th Anniversary Conference Gallery



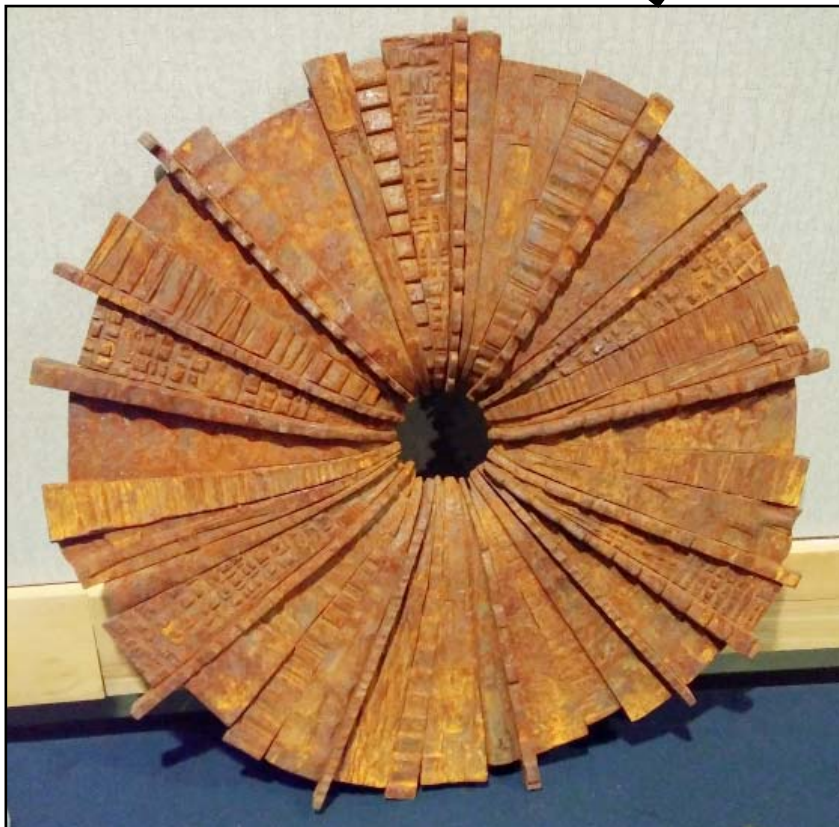
Louie Raffloer: Insects,  
100% recycled UD-40 can



Ben Czyhold: Light of the World  
Steel and Black Walnut



Lisa Geertsen: Through the Fire,  
2018



Maria Cristalli, 2019



Larry Langdon: Squish, 2010



Jeff Holtby: African Blacksmith Spear Point Display



Bear Iron: Working it Out, giant leaves



Zackarya Leck: Spiral Stair Tread

# 40th Anniversary Conference Gallery



Jim von Mosch: Door pull set



Kellen Bateham: above and below, Repoussé florals for sculpture, work in progress



Kellen Bateham: Top Chef Award - Mokume Gane chef's knife with etched brass plates



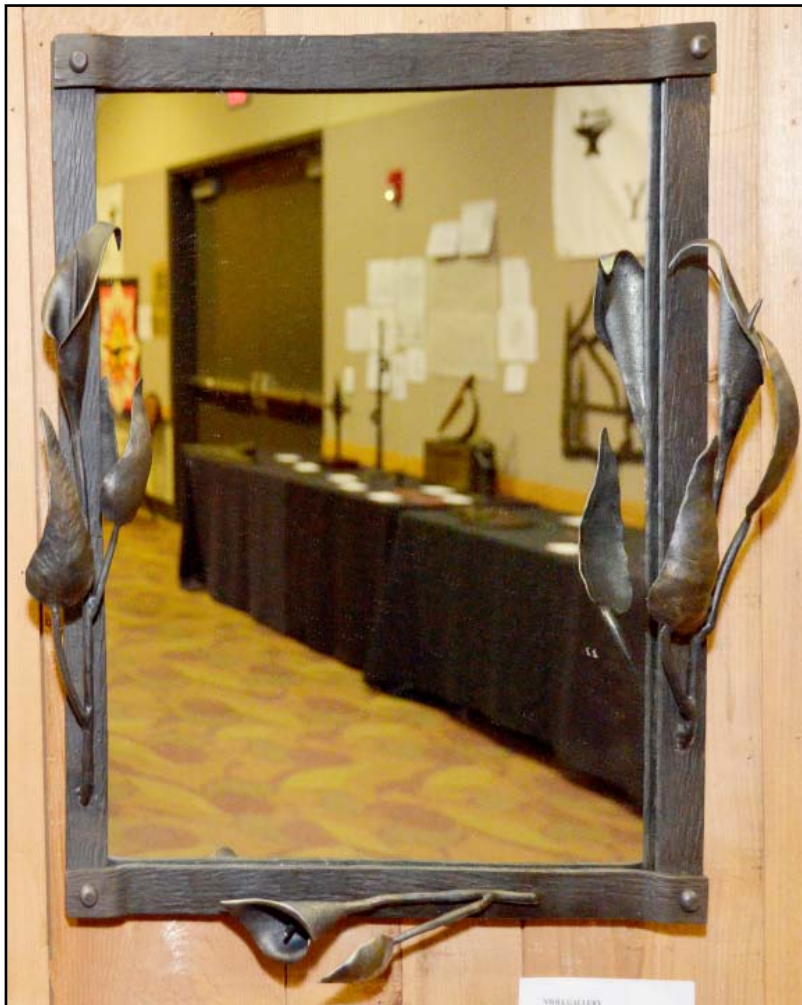
Kellen Bateham: Appreciation Award



Lauren Osmolski: Totem 1, 2018



Andy Blakney:  
Andy's Minions



Dan Bowyer: Flower Mirror Frame



Andy Blakney: Mr. Magoo

## 40th Anniversary Conference Gallery



Dean Mook: Dog Fish

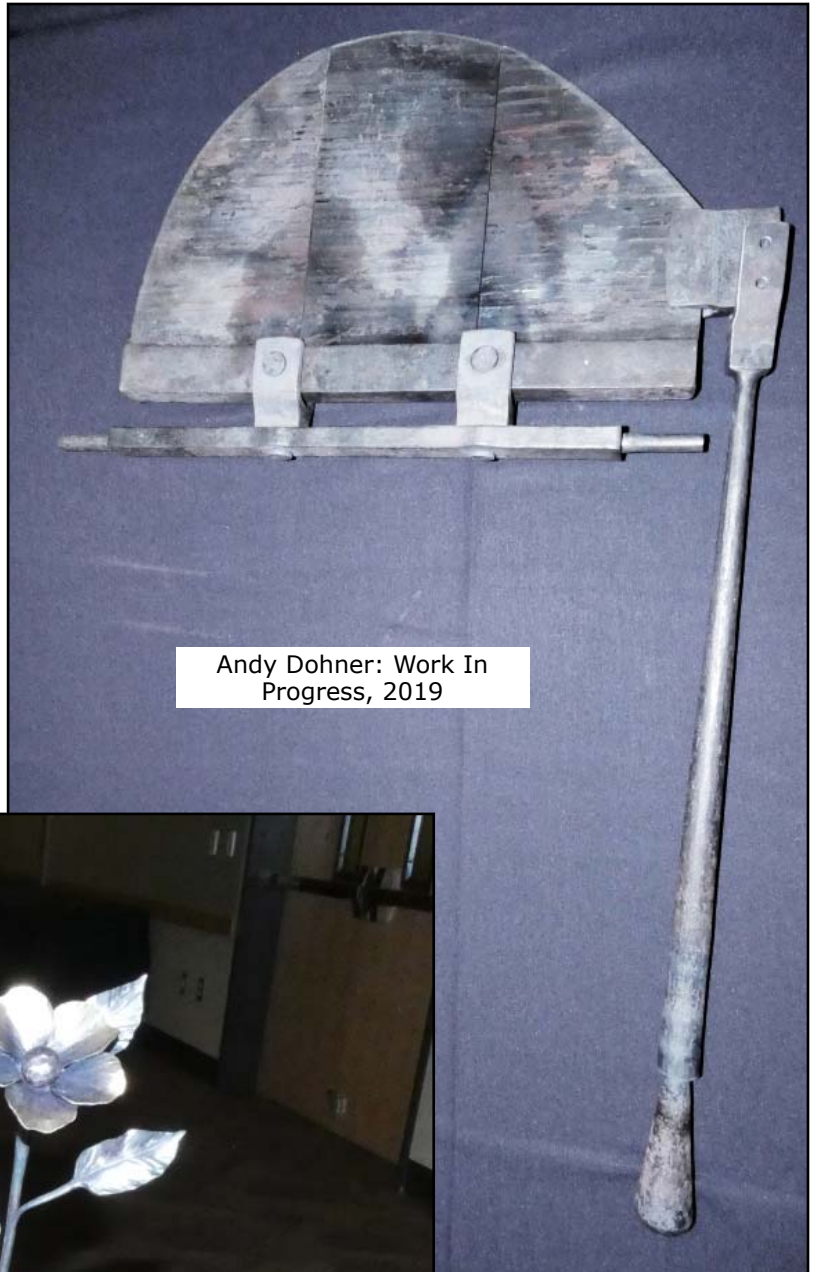


Scott Szloch: All the Kings Men

30th Anniversary Blacksmith Wars, Theme - Pacific Northwest 2nd place Team Mayhem: Dean Mook, Dave Lisch, Larry Langdon, Ryan Wilson, Tom Ferry and Berkley Tack.



Dan Bowyer: Flower Candle holder, 2019



Andy Dohner: Work In Progress, 2019



Nico van der Peet: Flowers, 2019

# 40th Anniversary Conference Gallery



Makena Henriksen and Alair Wells: Panels made in a Gary Eagle class, 2018



Unknown Maker

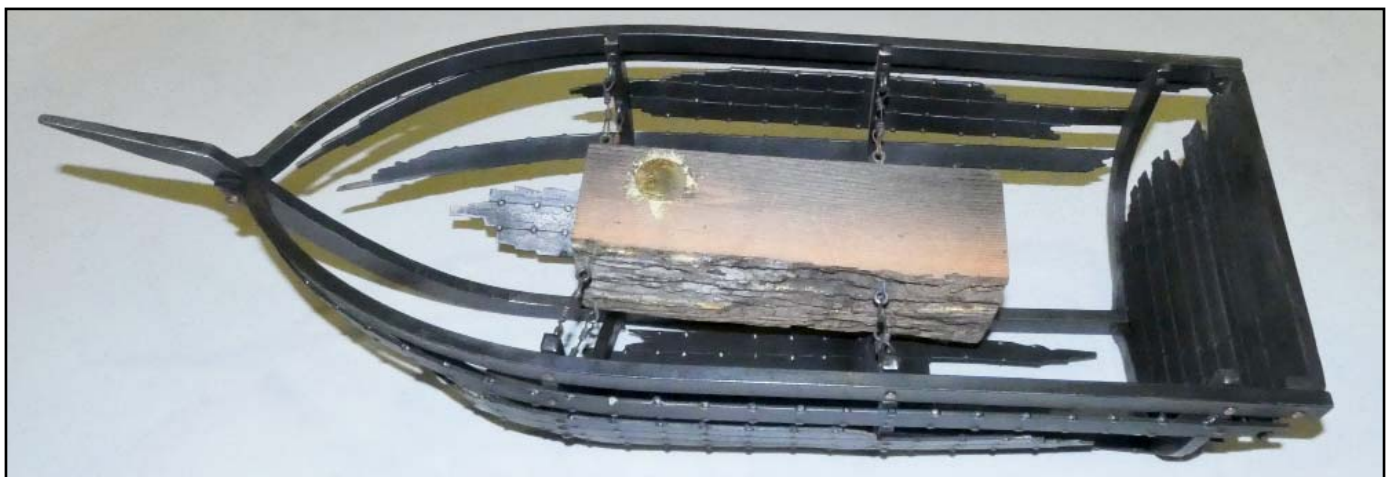


Patrick Maher, Shipwreck, 2017





Anton Yakushev, Demonstration Piece made at the 40th Anniversary Conference, front and back views, 2019



Lisa Geertsen: Reliquary Wawona, 2017

# 40th Anniversary Conference Auction



Dan Bowyer: Calla Lily Stool



Anton Yakushev: Skeleton Warrior



Darryl Nelson: Dog Friendly Sculpture



Jim von Mosch: Dragonfly garden hose hanger



John Dorffeld: Grape leaf display dish



Dean Mook: Candlesticks

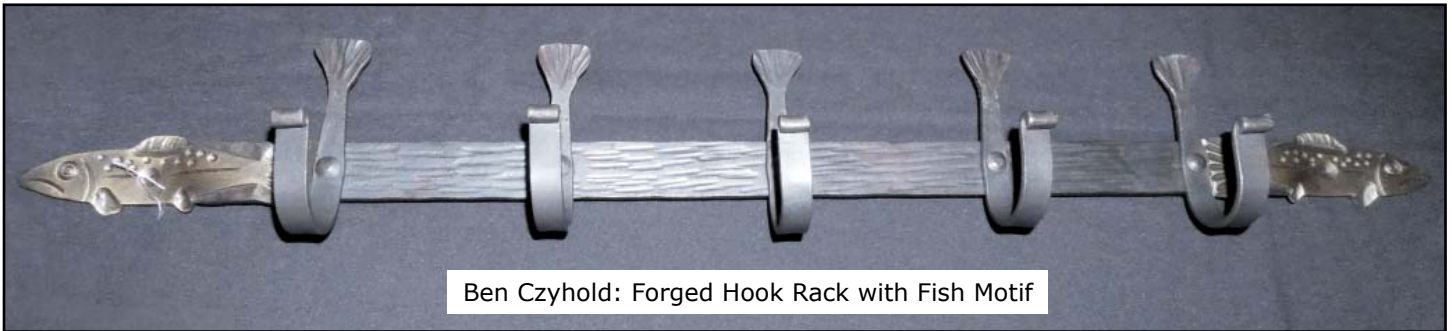


Tri Ficker: Leaves Candle holder



Claw hammer: maker?

# 40th Anniversary Conference Auction



Ben Czyhold: Forged Hook Rack with Fish Motif



Ben Czyhold: Viking and Cowboy Bottle Openers



Judy Czyhold: Anvil Pendant, sterling silver, copper



Judy Czyhold: Anvil bracelet, leather, silver copper.



Lisa Geertsen: Small Survival Tool Set



Seattle Metals Guild: Coffee Mug



Jim Hatmaker: Widget  
2019-2



Matt Sabo: Killing Stick



Lisa Geertsen:  
Aluminum Feathers



David Tuthill: Brut de Forge Demo Knife, 1080, beefwood, leather



Jim Carley: Gratuitously  
large bottle opener with  
wingless raven/toucan/  
lovechild motif depicting  
potential digestive pathway



Phil Stringer:  
Cake Spatula



Frank Mestamauker:  
Pie Spatula



Jeff Holtby: Railing Inset

# 40th Anniversary Conference Auction



Bruce Crittenden: 30th Anniversary Conference Large Mounted Photo



Nitzan Lilie: Rounding Hammer, 2.75 lbs  
Berkley Tack: H-13 Demo Chisel



Andy Blakney: Tong Set



Randy Cryderman: NWBA 40th Anniversary Commemorative Plaque, etched glass and forged steel stand (poor photo, Anton's Skeleton Warrior in front, and 30th Anniversary Photo behind)



Jim von Mosch: Candle Wall Sconce



Alair Wells, Louie Raffloer, Makena Henriksen: PNW Themed forged Landscape



Michael Wilt: Fun Flower, study in stainless, 2019



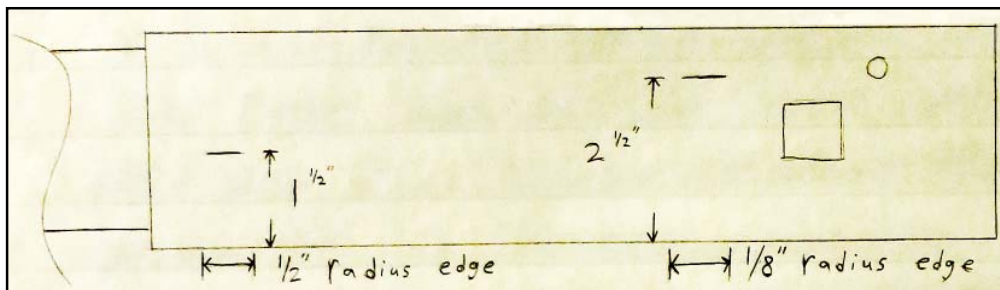
Scott Szloch:  
forged mild  
steel, cast  
glass



Made at Pratt: pine box bench

## Ben Czyhold: Whelk Shell

Layout for anvil face: Mark lines with soapstone. (Not to scale)



All measurements from near side.

**Stock:** 5/8" square 30" (±)

### Forging:

1. Rest bar over 1/8" edge with bar end at 2 1/2" mark. Use half face blows to forge first shoulder, with down pressure roll to next face and forge in second shoulder. Forge both to half mass.

2. Rest bar over 1/2" edge with first set of shoulders at 1 1/2" mark. Forge in two shoulders as in Step 1 and in identical orientation. Keep taper short.

3. Forge mass on end to a 9" round taper.

4. Place second segment on the diamond to lightly forge in both corners.

5. Bend taper 90° in transition. clamp second segment in vice and upset transition to make bend crisp.

6. Using a cross peen hammer with a fairly sharp edge spread and thin center of second segment (shell body). Do not thin past 1/8". Spread and thin down into transition.

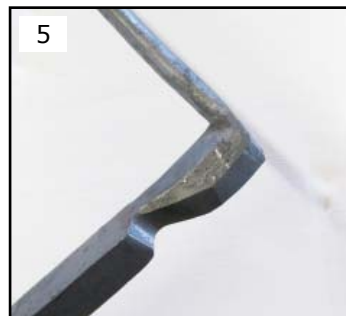
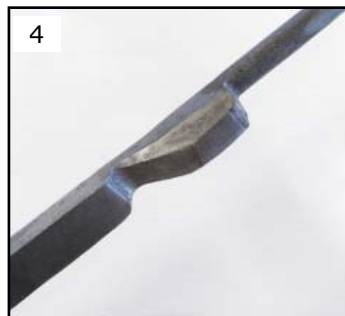
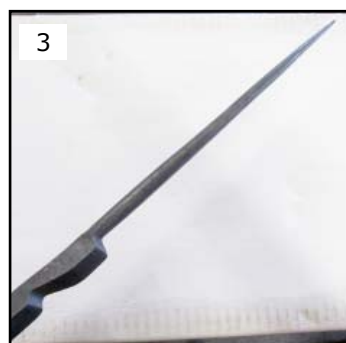
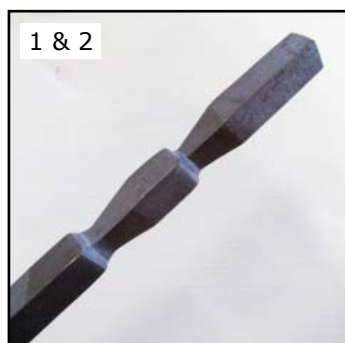
7. Still using the peen, spread and thin right side of shell body. Spread as wide as possible without going below 1/8" in thickness. Maintain taper in body shape and straight top edge transitioning into taper.

8. As in Step 7, thin left side of shell body. Maintain straight edge, careful not to thin taper transition. Correct any misshapen edges by careful light hammering supported over anvil.

Tip - Use high heat and spread aggressively to get the most width out of shell body material. Keep taper out of the fire.

9. Forge out all peen marks. Smooth surface, maintain shape.

10. Using a half round swage or opened vise jaws, shape shell body to half round through entire length.





11. To make the bottom tip of the shell, rest the narrowest end of the shell body over the tip of anvil's horn. Compress shape together, do not fully close and maintain round shape. Rotate gradually while evenly striking with light blows. Concentrate only on tip of shell body, hammer till tip is fully closed, smooth transition. If shell body becomes distorted, re-shape over tip of horn. Keep shell body open.



Tips - If bottom end of shell body comes out of round, locate narrow edges and forge each evenly back in. Do not thin transition below 1/4" round.



12. Starting at the tip of the taper scroll end tightly.

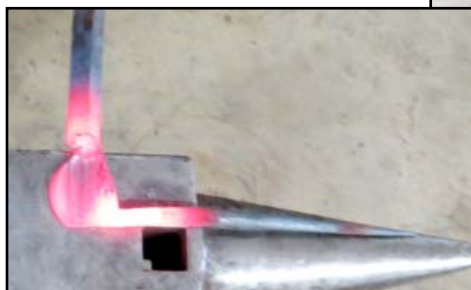
13. Continue scrolling taper length into even spiral, use scrolling tongs to adjust spiral so each coil of taper will rest on the one below.

14. To bring spiral over shell body, quench shell body, rest on face of anvil and use moderate to light blows.

15. Use scrolling tongs to close up and compress spiral into cone shape. May also use light blows with spiral supported on edge of anvil.

16. Shape shell body to meet bottom edge of spiral. Curve out far edge of shell body.

Tips - To help close up top of spiral, strike with the back of a wire brush or wood mallet to prevent marring. By closing the shell body last you can make the spiral as wide or as narrow as you want.



Ben instructing the hands-on class, and some whelk shells in progress.



See more of Ben Czyhold's work at  
<http://artificerforge.com/>  
 and on Facebook: [Artificer Forge](#)



## NWBA 40th Anniversary Conference Hands-On Lisa Geertsen: Aluminum Feathers

### NOTES FROM THE WHITEBOARD:

#### ALUMINUM - DO NOT MELT IT!

- Hold piece in the forge, count to 10, check with wood stick
- Repeat until you see a black mark on the stick
- Then it is ready to forge



### DO NOT TURN YOUR BACK ON ALUMINUM!!

#### Feather - 1/4" x 3/4" - FB

- Half face blow to isolate quill
  - Forge Quill to desired size and length
- Turn bar around, hold quill with tongs
- Taper end of bar to suit feather shape
- Forge out sides of bar to desired thickness and texture
- Chisel line in center and on edges
- Use wood to form edges and bring life into it.



Find more about Lisa Geertsen and her work online:

<https://www.firelightforge.com/>

<https://www.facebook.com/firelightforge/>

# Our Association Tree

Born of a desire to honor our NWBA members who have kept the association thriving for four decades, the tree is a growing testament to the dedication and devotion of all members new and old, and stands as inspiration for us to keep the spirit of our mission alive.

**NORTHWEST BLACKSMITH ASSOCIATION**  
 "Dedicated to education and the preservation of the art and craft of blacksmith."



Project spearhead Dorothy Cordochorea and repoussé tinkers Byron Johnson (left) and Ed Durrenberger (right)



Jim and Nico proudly standing by the tree.

*Encouragers Enthusiasts Energetic Exciting Us  
 People Who Help Keep Us Motivated*

*Officers Directors Committee Members*

*Resource Finders and Providers Generous Givers  
 of Time, Energy, Expertise, Money or Stuff*

*Effective Managers  
 Whose Push Helps Us Dare to Do Better  
 Learn More  
 Give Our Best Effort*

*Do you know a member who fits any of these  
 categories?*

**Make a leaf and hang it on the tree in their honor!**



Category labels hung on the bottom of chains which will hang on the tree. Names of members honored in each category can be added over time.



Example leaves stamped with the names of our hard working members: Lee Cordochorea and Dorothy Cordochorea, both of whom surely belong in more than one category.



Composite image of nearly completed tree branches.

The tree and leaf making materials and tools will be at the Mentoring Center, Longview, WA and available at all our events for you to make a leaf in honor of a fellow member. Let's keep it growing!!

# Kellen Bateham: Forging Pliers



**Tongs are for holding, pliers are for doing!** These are highly effective tools and a great exercise in general forging, no jigs, just hand forging on the anvil. Although this demo was designed around pliers making, to me it was more of a boss forging demo... these two types could be used to create pliers and tongs of any length or function.

Kellen's work has a hand forged surface with no hammer dings. Kellen talked about having Joe Elliott as a mentor, being pushed to do it right. He clearly is following Joe's rule that tools be eye sweet and hand friendly. Quoting Joe, "I'd rather forge for 20 minutes than grind for 5." I would add that forging very close and cleaning with a file is both more accurate than angle grinding or belt sanding as well as more satisfying."



Most of the pliers samples are from 5/8" round or square stock, smaller ones from 1/2" round. Square has more material than round, the size and thickness of the boss area (flat the rivet goes thru) is the determining factor in selecting parent stock. (I would add that 1045 is a great steel for pliers and tongs and have many more benefits than super quenched A-36 and would be my choice if available. EXAMPLES: Mark Manley's hardie tools are A-36/super quenched and highly respected and effective.)

An apron, more than just a safety item, it establishes a mind set for safety and that you are ready to work. Kellen's apron holds a group of tools for measuring, marking, and clean up: chisel, scribe, center punch, rule, white pencil, etc. S-7 is suggested for tools in the 6-8" range of length. Kellen is a big fan of earmuffs rather than plugs for ear protection. In general, Kellen uses the visual reference of the anvil as measuring criteria; width of face, half face, edge to hardie hole, etc.

**SCROLL PLIERS DEMO:** Start with 6 to 7 inches of 5/8" round for each pliers half.

In two piece work like these do each/both one step at a time. **IMPORTANT:** Take the time to get both the same shape/size with constant side by side comparisons all through the forging process.

Start taper of jaw on far side of the anvil, do the tip first then work back to the desired length (approx. 2'). Just work 2 sides with 1/4 turn back and forth. Do not try to center taper until the final rounding stages. It is important to have straight even sides to taper. Do the Square-Octagonal-Round sequence. When octagonal and rounding start from the back of taper, not point. Rounding is where you center the mass.



Start tapers.



Octagonal



Both pieces equal and true.

Important: Avoid letting pieces soak in the forge, particularly at high heats. Thin tips (or parts) can quickly erode from scale loss and the problem is greater in a very hot forge. Kellen adjusted the forge to operate below ideal forging temp of high yellow. Work quickly and with purpose. All through the above process match and compare two halves. Don't work below mild orange, only during the final dressing take the steel from mild orange to black heat, which really shows defects from desired shape. Look at the taper from tip end to see how round they or are not. Kellen also makes these for jewelers/silversmiths who demand very clean, straight, round tapers.

Start boss (where the rivet goes) on near side of anvil to make a mark and really forge on far side with half face blows. Somewhere in the 30 degree to straight across range is good. You do not want interference to the jaws opening and closing. Mark a soapstone line on anvil face as a guide. Lengthen boss and work to uniform desired thickness about 1/2" starting thickness. Work totally from the back, flat (mating) surface of boss against the anvil face.



Set shoulder, spread boss

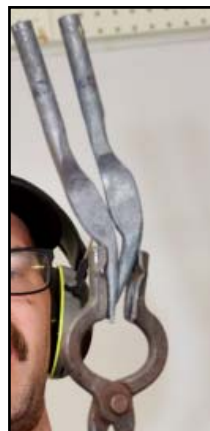
The angle on the boss transition is a visual cue on top and bottom of each half. Start transition shoulder from jaw to boss just behind the biggest part of the jaw taper.



Shoulder set, now lengthen boss.



Angles shown above do not work. Compare often.



Different boss lengths give different handle lengths.

Forge jaw and past boss areas, then flip and work handles from back end toward boss area. Put slight radius in handle, bust corners, slight flair to handle end.

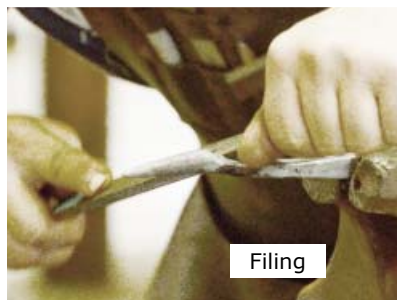
Always check the trueness of each side, looking for lopsidedness or twists (often referred to checking the X and Y axis). Also check the "center line" as shown in the drawing at right: jaw line, boss center, handle end. This insures close fit when



Forge handles.



Everything formed



the two halves come together.

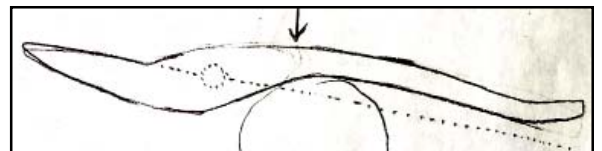
File the mating surface of the boss with mid-sized half round bastard file, filing the shoulder and flat. Don't scrub, files only cut one way.

Drill or punch rivet hole? Drilling is easier because of the shoulder on the boss. Mate the two halves, draw over

lap of boss on one side and eye ball center. Drill first hole, mate up to find second hole and mark. Eye ball as to how close to center mark is, you may have to correct if things are way out.

Drill rivet hole in boss.

Rivet size - 5/8" bar = 5/16" x 1-1 1/4" rivet. 1/2" bar = 1/4" x 7/8-1" rivet. 3/8" bar = 3/16" x 5/8-3/4" rivet.



Slight counter sink to remove burr. Drill one side (half) and align both halves to help locate second hole. May require cold hammer or angle file work to get mating surfaces right. Simulate opening and closing motions because the mating might be good only at one point in the operational range.

Kellen sets rivet to one half so it won't rotate, this keeps rivet from wallowing in hole. Remember rivet stock is softer than A-36. He used a mason's fluted drill to make index marks. You might have to redrill. The same can be done with a basic cold chisel. Heated one half with rivet in place, set on anvil with rivet up and placed cold half with index marks up, set rivet. Reheat pliers to get movement in joint, and then do the final trueing up.

Heat and super quench boss and jaw areas.

**SHOP PLIERS DEMO:** 7" of 5/8" SQ stock for each half. Some of the process from scrolling pliers apply, especially the constant comparing of both halves as they come to final form.

Different from Scrolling pliers in that the boss area is isolated first. In demo stock marked 3/4" from end and second mark 3/4" + 1/2" on opposing side. 3/4" for jaw, 1/2" for boss. Boss will grow when forged thinner. Forge on the near side of the anvil, also roll and do inside corners of notch slightly to prevent cold shuts later.

Forge down to slightly less than half parent bar thickness. Keep at parent bar width, check both sides valley to insure equal.

Forge second notch on far side of anvil. Do corners and side checking as with front notch.

Flatten boss area from back with round face of hammer, goal is 1/2 of parent bar thickness. Boss is flat and tapers into handle beyond the boss area. Work whole heat area, keep everything true, profile and no twists as well as "Center Line"

Both pliers demonstrated were super quenches from boss/handle transition forward.



First notch.



Second notch.



Ready to flatten boss.



Start boss.



Boss/handle transition well started.



Check mating surfaces.



Compare.



Two equal halves, final shape.

Indexed and drilled rivet hole.





Flexing riveted joint.



**ISSUES:** (or pitfalls or hidden traps)

Forge forcefully and accurately, get to the desired shapes quickly or the areas will be too long and thin when you finally get where you want.

All the intermediate steps have to be executed with the same precision as the final ones. Mistakes compound as you go through a forging sequence leaving you with too much to correct at the end.

The transitions from jaws to the boss to the handle in final pieces is smooth and pleasing to the eye while keeping strength. Be mindful of the need for strength. Scrolling pliers go from round jaws to vertical rectangle boss to horizontal rectangle handle. Well shaped transitions are a key to these pieces' function, strength and beauty.



See more of Kellen Bateham's amazing work at

[specopsmetal.com](http://specopsmetal.com)

[instagram.com/special\\_ops\\_metal/](https://www.instagram.com/special_ops_metal/)

Harold the Rat at the Conference Gallery  
Decor by Anton Yakushev

Follow Harold on instagram [@harold\\_s\\_rat](https://www.instagram.com/harold_s_rat)



## NWBA 2018 Calendar of Events

June 22, 2019	Mentoring Center Demo/Open Forge, Longview WA Rashelle Hams: Tools, Trinkets, Tips & Tricks
July 20, 2019	Mentoring Center Demo/Open Forge, Longview WA Open Forge and setting up for the Fair
July 24-27, 2019	NWBA Demonstrators at Cowlitz County Fair, Longview WA Volunteer now! Contact Lee Cordochorea, thingmaker3@gmail.com
August 24, 2019	Mentoring Center: Moving to the bigger building next door!! We need your help!!
Sept. 28, 2019	Mentoring Center Demo/Open Forge, Longview WA
October 25-27, 2019	NWBA SWAPTOBERFEST III, Longview WA

Schedule of future Board of Directors' Meetings in 2019:

- July 27, 2019 at 1 pm in the Longview Library (or telecommute)
- October 19, 2019 at 11 am in the Longview Library (or telecommute)

Any NWBA member is welcome to attend in person, or telecommute via "GoToMeeting."

Find the details of these events at [www.blacksmith.org/events/](http://www.blacksmith.org/events/)

Submit your blacksmith events: [www.blacksmith.org/submit-event](http://www.blacksmith.org/submit-event)

### OTHER BLACKSMITH EVENTS

06/03 - 06/14/2019 Blacksmith's Tools with Jeffrey Funk, New Agrarian School, Bigfork Montana  
06/17 - 06/28/2019 Forming of Mascarons, New Agrarian School, Bigfork Montana  
07/08 - 07/19/2019 Forging from the Natural World, New Agrarian School, Bigfork Montana  
07/22 - 08/02/2019 Hand Tools for Farm and Garden, New Agrarian School, Bigfork Montana  
08/05 - 08/16/2019 Forging Fundamentals for the Kitchen, New Agrarian School, Bigfork Montana  
08/14 - 08/18/2019 Blacksmith Week 2019, Government Camp Oregon / Cascadia Center for Arts and Crafts, Government Camp Oregon  
08/19 - 08/30/2019 Roots of Form, New Agrarian School, Bigfork Montana  
09/28 - 09/30/2019 Beginning Blacksmithing, Old West Forge, White Salmon WA  
10/12 - 10/14/2019 Blacksmith's Workshop - Traditional Joinery, Old West Forge, White Salmon WA  
10/26 - 10/28/2019 Blacksmithing Basics and Beyond, Old West Forge, White Salmon WA  
12/07 - 12/09/2019 Blacksmith's Workshop - Top Tools and Tongs, Old West Forge, White Salmon WA

### Blacksmith Week at Summit Arts Center (CCAC) Government Camp

August 14-18, 2019

Two Demonstrators: David Lisch and John Williams

Hands-on instructor: Joe Elliott

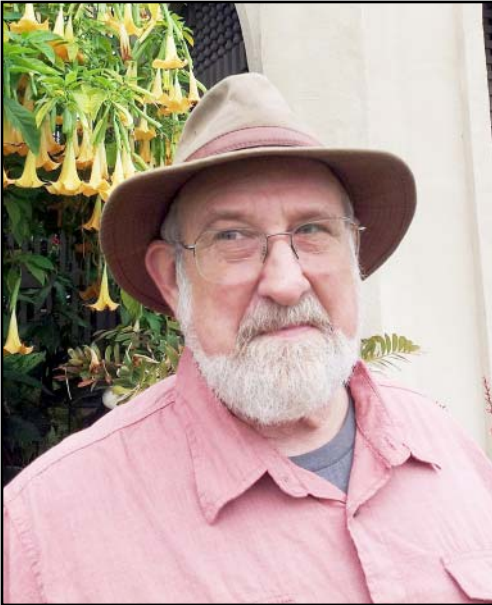
- Wednesday, August 14th: Get campsite early, come and hang out.
- Thursday, August 15th: at Noon, Joe Elliott will be doing the hands-on demonstration. Participants will be able to work on their hands-on project throughout the rest of the weekend.
- Friday, August 16th: 9AM - Noon first demonstration. 1pm-4pm second demonstration
- Saturday, August 17th: 9AM - Noon morning demo. 1pm-4pm afternoon demo
- Sunday, August 18th: 9AM - Noon demonstration.

Register at the door. Reserve your Mt.Hood lodging early.

Parking is available for RV's and trailers. Must check in with registration tent BEFORE setting up. Camping is available both on and off site. All camping is free. No solid fuel fires or bbqing allowed.

Visit [CASCADIAART.org](http://CASCADIAART.org) for more information.





## Jeffery Lee Cawley

Nov. 21, 1946 - May 27, 2019

Jeff Cawley died Memorial Day, May 27, 2019, of cancer. He was surrounded by his family.

Jeff was born in Trenton, N.J., to Richard Cawley and Elizabeth Garwood Shinn Cawley. He grew up in Jacobstown and Haddonfield, N.J., with his sister Libby. He graduated from Juanita College in Huntingdon, Pa., with dual degrees in Chemistry and Geology in 1968. Jeff then pursued a PHD program in GeoChemistry from Princeton University. His doctoral studies were interrupted by the Vietnam draft at which time he served two years in the N.J. Neuropsych hospital as a conscientious objector.

Jeff moved to Portland in 1972. In 1979 he married Liz Goeke and started Northwest Analytics Inc., a local technology company. He helped guide the company to its award winning status in Data Analytics. Jeff was acknowledged as an expert in the application of laboratory data, especially focusing on Food Safety, where he was internationally in demand as a speaker and consultant.

Since retirement in 2014 Jeff became a founding member of the arts collective Manifestation PDX and active in the Northwest Blacksmith Association. He was a member of the Bridge City Quaker Friend's Meeting.

Jeff is survived by his wife of 40 years, Elizabeth Goeke; his children, Richard Cawley and wife, Iris Asher; Sarah Cawley; Matthew Lee Cawley and wife, Kristen Haverman and Matt's children, Jaden Cawley, Cedar Cawley, Bridge Cawley and Amelia Haverman-Cawley; his sister, Elizabeth Michelson of Stamford Conn., her children, Courtney Michelson and Jeffery Michelson; the couple's honorary Kyrgyz daughter, Nazira Adieva and her son, Adrian Adieva, of San Diego, Calif.

Two services are being planned. A memorial and reception at 2 p.m., June 22, 2019, at the Multnomah Friends Meeting, 4312 S.E. Stark Street, and a blacksmith shop ground-breaking on family land on the Olympic Peninsula in the Fall.

Please sign the online guest book at

<https://obits.oregonlive.com/obituaries/oregon/obituary.aspx?n=jeffery-lee-cawley&pid=193091742>

Published in The Oregonian from June 7 to June 9, 2019



Northwest Blacksmith Association remembers Jeff Cawley with love and appreciation. Jeff had a passion for sharing his knowledge of blacksmithing, taking time to teach, demonstrate and to serve on the board of the NWBA. He spearheaded many outreach projects as well. He was a gentle and kind soul and will surely be missed by all of us.



## Frances Marion "Babe" Brandon

May 21, 1932 - June 8, 2019

Babe Brandon, 87 years, of Van Petten Il, passed away at her home on June 8 after a several year battle with Alzheimer's Dementia. Frances "Babe" was born May 21,1932 to LeRoy and Margaret Henry in a farm house in Nelson twp.,Il. on what is now called Bollman Rd. After graduating from Community High School(now called "Newman High") she studied for nurses training at Rock Island, but when her brother was drafted into the army she returned home to help her father with the farm.

In her senior year she met and selected David Brandon and they were wed in Nov. 1951, going on to have 2 children, David Gene Jr. and Stanley Henry, and in later years adopted two girls, (sisters) Tracy Lynn and Kimberly Anne (Williamson).

Dave and Babe spent three years in Freeport while he did tree work for the power company. When a hired man position came open in 1954 they decided to raise their boys on the farm at Van Petten. They formed a loose partnership with her father until in 1972 when a disagreement in principal caused them to purchase a country store in Stevensville mt. Together they operated the store for 4 years and sold it to retire to a 15 acre orchard nearby. She learned apple culture, sorting, and marketing for 12 years . When economics dictated a return to work at a paying job, at 57 years old, they bought the same store back again for another 4 years. She was mother, homemaker, and work companion her entire life. A nationally rated firefighter, she fought the fires of Yellowstone park in 1988. She took great pride in her 6000 volume library and 700 piece museum, and her 1930 model"A" Ford that she drove to school in 1949 and kept all her life. Babe was preceded in death by her parents, a brother, Patrick Henry, and an older sister Margaret (Peggy) Henry. She is survived by her spouse of 67 years, Dave, her son David Jr., and Stanley, and daughters Tracy and Kimberly, and many grand children, great grand children and one great great grand child and hundreds of friends across the nation.

A celebration of her life will be held all day Wednesday July 3, 2019 at her home in Van Petten . Contact Dave for any further information at 815-380.8043.



Dave and Babe were Northwest Blacksmith Association members at least since way back when. Here is an article in the 2001 Winter Hot Iron News ( see next page), so I know they have been around since before that.

When I wrote and asked him when he became a member Dave wrote me back: WOW! thanks Amy. Don't remember the exact year but the newsletter was still tied to The Blackpowder News Letter, that's a long way back, and I lost touch some years ago. Send me a membership form and I will get on the group again. Loved all those old timers from back then. I watched Tom Joyce pull his first weld heat from a propane forge at Darryl's, many years ago. He didn't think it would get hot enough to weld.

I am sure our NWBA members who knew Babe will be sorry to hear this news, she sounds like a firecracker of fun. Members who know Dave might want to send him a note, he can be found on Facebook: Dave Brandon.

**FOR AS LONG AS ANYONE CAN REMEMBER, DAVE AND BABE BRANDON HAVE BEEN MOVING FROM MONTANA TO ILLINOIS. HERE'S THEIR LATEST REPORT! . . .**

Today the two Old Farts decided to unload the first bus that we loaded and moved here in the Summer of 1998. We did 7 pallets, loaded about 20 chicken boxes on each one, is 140 boxes of books and National Geographics. Several boxes with items from the store, like X-mas wrap, bows, cards and Halloween items, besides my sister Peggy's clothes and Gramma Tyne's apron, my dad LeRoy Henry's baseball glove. All of my rocks (good rocks) all over the country. A few boxes of fireworks, at least enough for a Mexican Revolution. Several boxes of baseball, football, hockey trading cards. Unopened complete sets 1989, 1990, 1991, three complete uncut sheets of sport trading cards. They are so old that nobody would even want them now, right? We still have welder, saddles, horse tack, reloading bench, reloading equipment, dies, powder, primers, bullets, and uncounted boxes of books. Like Christmas in January, to see your old stuff after 4 years of hiding. Oh, yes!-- A box of garden seeds. We are kind of tired after all day moving boxes off the bus and into the barn on the shelving.

Love, Dave and Babe.

P.S. Will be doing the same thing tomorrow. Might have this bus sold so we have to get it ready. Then we will have the last bus to empty. More fun, right!?

# SWAP TOBER FEST III

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START WORKING ON YOUR CONTEST ENTRY NOW:

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(TO USE FOR THE WEEKEND AND WE'LL BE FILLING THE DUMPSTERS MORE SLOWLY.)

KURLY'S WILL BE RETURNING ALONG WITH THE COOK SHACK.

**PLAN ON BEING THERE!**



You will be blinded by all the shiny objects you will want to swap for...

and by the sunlight shining off the grins of all the happy blacksmiths!!

# Blacksmithing Schools Around the Northwest

## Anvil Academy

305 N Main St.,  
Newberg, OR 97132  
Website: <http://anvilacademy.info/>  
Email: [admin@AnvilAcademy.net](mailto:admin@AnvilAcademy.net)  
Phone: 503.538.8123  
Offering instruction in basic and advanced blacksmithing and knife making

## 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](mailto:bland2879@yahoo.com)

## Bridgetown Forge

1812 North Columbia Blvd.  
Portland, OR, 97217  
<http://www.bridgetownforge.com>  
[arnon@bridgetownforge.com](mailto:arnon@bridgetownforge.com)  
Phone: 503-804-1524  
New classes are being developed on a continuous basis, and classes to be offered in near future include: power hammer work, forging a cleaver, forging a sushi knife, hammer-making, and axe-making.

## Cascadia Center For Arts & Crafts

P.O. Box 64  
Government Camp, Oregon 97028  
<http://www.cascadiaart.org/>  
Blacksmithing, Visual Arts, Painting & Drawing, Photography, Fiber Arts, Glass, Jewelry

## 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

## David Lisch

[DavidLisch.com](http://DavidLisch.com)  
Knife making and blacksmith classes in Yelm WA  
Email: [studio4@davidlisch.com](mailto:studio4@davidlisch.com)

## Fire Horse Forge

David Tuthill Owner/Instructor  
1415 NW 49th Street  
Ballard, WA 98107  
Knife making, Axe making and more!  
Website: <https://www.firehorseforge.com/classes/>

## 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](mailto:stevem@incandescent-iron.com)  
[www.incandescent-iron.com/blcl.html](http://www.incandescent-iron.com/blcl.html)

## Old West Forge

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

## Thorne Metals Studio

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

## Yamhill Valley Heritage Center

11275 SW Durham Ln.,  
McMinnville, OR 97128  
Located South of McMinnville on Highway 18 at the intersection of Durham Lane  
Phone: 503.472.2842  
[Events@YamhillCountyHistory.org](mailto:Events@YamhillCountyHistory.org)  
<https://www.yamhillcountyhistory.org/yamhill-valley-heritage-center>

## New Agrarian School

990 McCaffery Road  
Bigfork, Montana 59911  
Phone: 406-837-4208  
[metafunk@cyberport.net](mailto:metafunk@cyberport.net)  
[newagrarianschool.org](http://newagrarianschool.org)  
Instructors include: Jeffrey Funk, Rachel David, Andy Dohner, and Tony Stewart

If you would like to list your blacksmith school here, please send your information to [nwbainfo@gmail.com](mailto:nwbainfo@gmail.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](mailto:nwbainfo@gmail.com)



# Northwest Blacksmith Association

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

## 2019-2020 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.**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

\*E-mail: \_\_\_\_\_

\*(if you are already registered as a user at [www.blacksmith.org](http://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](http://www.blacksmith.org)

Dues are:

\$60 in U.S.A.

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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.



100 Daniel Ridge Rd  
Candler, NC 28715  
(828) 667 - 8868

[www.BlacksmithsDepot.com](http://www.BlacksmithsDepot.com)



ABANA 2020

June 3-6

Saratoga, New York

### The NWBA is seeking a new Hot Iron News Editor and Website Administrator.

Our current editor/website administrator will be stepping down from her current position and needs to pass the torch on to another member. She will, of course, be available to train our new editor/website administrator.

#### Responsibilities of this position are:

- Publish a quarterly magazine format publication of ~24-48 pages.
- Website and Facebook Management

Details of the position are available, email [webmaster@blacksmith.org](mailto:webmaster@blacksmith.org)

The stipend for serving in this capacity is dependent on experience.

Please contact any member of the Board of Directors if you can help out with this need. Our contact information can be found on page 2, or online at <https://blacksmith.org/board-directors/>

*Have an idea for a demonstration you want to give? We need able demonstrators to fill our Mentoring Center fourth Saturday of the month schedule for 2019.*

Contact Lee Cordochorea to discuss it:

[thingmaker3@gmail.com](mailto:thingmaker3@gmail.com)

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360-790-6954

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 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](mailto:Mountainbrookforge@gmail.com)  
 for price and availability.

#### ATTENTION MEMBERS

Are you receiving our informative monthly email announcements? Sign up online:  
<http://blacksmith.org/sign-up-email-announcements/>

*Get the up to the minute details of NWBA events and news.*

#### Advertising Submissions

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

Email to: [NWBAinfo@gmail.com](mailto: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](mailto:nwbainfo@gmail.com)

**Your Ad Here!**  
**Members can post 50 word classified ads for FREE.**

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.

# Hot Iron News

[www.blacksmith.org](http://www.blacksmith.org)



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