

THE HOT IRON SPARKLE

NEWSLETTER OF THE NORTH CAROLINA ARTIST-BLACKSMITH'S ASSOCIATION OF NORTH AMERICA



Volume 34 Number 2

Second Quarter 2015



Lucas House demonstrating on a Big Blu at the 1st Quarter NCABANA Meeting.

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A Message from our President

Greetings All,

4th MAY 2015

Millers Creek, NC

The onset of mowing season has arrived with all the fun one can have with that weekly task. Got to keep the weeds down so it looks like somebody lives here!

The first quarter meeting at Big Blu was a resounding success. Thanks to Dean and the crew for hosting once again as we look forward to this annual event. Iron-in-the-Hat was outstanding and a significant contribution was realized for the scholarship fund.



The 2nd quarter meeting is set for the Dixie Classic Fairgrounds for the last Saturday of June hosted by the Triad Group. See their announcement for details. Before you get too excited about this possibility, note is made that Peter Ross has graciously agreed to host a meeting at his shop near Siler City set for June 6th. Whatever Peter decides to show us is sure to reach a high mark on the WOW scale.

Fire on the Mountain was a successful event for the chapter. It rained through setup and about a half hour into the show, then quit for the remainder of the day. The event has grown over the years and the demonstrations were great. It was especially fun to watch Elizabeth Brim and her "effortless" creation of art. Sales were good and the chapter will take a similar position again next year. We saw many current members stopping by the booth and handed out several brochures to potential members.

Nominations will be accepted for the offices of Vice-President and Secretary at the Q2 meeting in Winston Salem. We will also open the floor for nominations at the Q3 meeting at the Island Farm in Manteo the 2nd weekend of September and conduct voting by ballot if necessary.

Paul Garrett and the Brasstown group have completed the frame for our panel for the Madison project and the Wilkes Teaching Forge (WTF) has completed lettering the placards with blacksmith's

idioms for Paul's group to attach to the frame so our panel will be ready for inclusion in the room divider project.

Look for the library listing in this issue and we are grateful that this part is moving forward. I am continually thankful for the support and efforts by the officers and leaders of our chapter in carrying out our programs and mission.

With six meetings scheduled for this year stretching across the state we are working towards carrying our banner from Manteo to Murphy!

Keep those hammers moving!

Lyle Wheeler, President NC ABANA

NC ABANA Reports

Treasurer's Report



Business Checking Account

Dues	\$850
Newsletter Printing & Postage	(\$1,183)
Newsletter Editor Fee	(\$500)
Insurance	(\$1,460)
Statewide Quarterly Meetings	(\$300)
Postage	(\$213)
Other	(\$371)
Balance	\$13,834

MMA - Scholarship Fund

Income	\$991
Scholarships	N/A
Balance	\$6,765

Jim Kennady, Treasurer of NC ABANA

Secretary's Report



Lyle Wheeler.

The business meeting of the NC ABANA chapter was held at the first quarter chapter meeting at Oak Hill Iron in Morganton, NC on March 21st, 2015. The meeting was led by President

NCABANA will be at Fire on the Mountain in Spruce Pine on April 25th. We will have four booths to recruit new members and for current members to sell items.

The Southern Blacksmith Association will have their biennial conference in Madison, GA the third weekend in May. Eric and Marion Campbell will be replacing Cindy Alexander as the representative from NCABANA. A special thanks to Cindy for her years of hard work and a welcome the Campbells for volunteering.

The membership list will be published again this year in the third quarter "Hot Iron Sparkle". If you would not like your name, address, and phone number included, please contact the secretary at north-carolina.abana@gmail.com.

Nominations will be open for the positions of vice president and secretary at the second and third quarter meetings. If there is an election, ballots will be mailed before the fourth quarter meeting.

The second quarter chapter meeting will be at the Dixie Classic Fairgrounds in Winston Salem, NC on June 27, 2015.

New Members

Alexis Aldinger	Shelby
Bailey Artz	Winston Salem
Ben Davies	Shelby
Bill Funderburg	Iron Station
Evan McCormick	Fuquay Varina
Ian Short	Oxford
J. Amburgey	Belews Creek
J. Craig Stanfield	Rutherfordton
James Patton	Buckhorn, NM
Jamie Rogers	Asheville
Joe Franklin	West Jefferson
Josh Cooper	Taylorsville
Kevin Hartle	Lewisville
Marc Staples	Durham

Michael Hobbs	Linville
Mike Upchurch	Raleigh
Paul Lundquist	Burnsville
Ray Morris	Dunn
Richard Brown	Clayton
Robert Lagle	Wake Forest
Samuel Sandifer	Taylorsville
Scott Hoover	North Wilkesboro

Opting Out of a Hardcopy

Due to increasing prices of postage and printing costs, NCABANA would like to make receiving a hardcopy of the "Hot Iron Sparkle" optional. Some members have expressed an interest in the preferred online copy because it is in color and better for the environment. If you would like to download your "Hot Iron Sparkle" newsletters from www.ncabana.org instead of receiving one in the mail, please email Jennifer Phillips the secretary for NCABANA at northcarolina.abana@gmail.com

Join NC ABANA

Annual dues are \$25 (inside USA), \$35 (outside USA) for the rest of 2015. In 2016, the annual dues will be \$30 (inside USA) and \$40 (outside USA). Make check or money order payable to NC ABANA and send it to:

NC ABANA c/o J. Phillips
 97 Trinity Ridge Lane
 Banner Elk, NC 28604

For more information email: northcarolina.abana@gmail.com

or visit the NC ABANA website: www.ncabana.org

NC State Fair Announcement

Article by Eric Campbell

The state fair is coming up on October 15th-25th and some changes are coming over the next few years. The Heritage Circle where the forge is located will be updated during the next few years. The forge will be replaced with a new building and NCABANA will be responsible for paying for the interior of the building. To help raise funds for the new forge, we are looking for donated wares to be sold at the state fair in addition to the usual participation.

I would also like to encourage anyone who wants to produce materials for sale or donation at the state fair to get busy if you aren't already. This past year we sold out of most of our stock by the second Thursday and we sold \$34,327.75.

Please email me if you are interested in volunteering! Right now I am putting together a tentative list of volunteers since the state fair is a ways off and life happens.

For members whom the drive to Raleigh is infeasible there has been an interest in a group transport of stock for sale. I will be doing a pickup at the September Q3 meeting.

The fees from the state fair go to pay for liability insurance for the entire organization, rent on the building, demo expenses, and the new renovation expenses.

We will be continuing with the flat 20% fee for demonstrators and flat 25% fee for non-demonstrators, which covers sales tax of 6.75%, credit card fees of 2.85%, and the balance of the fee goes to NCABANA.

- a \$10 sale under this structure as a demonstrator you would receive \$8
- a \$10 sale under this structure as a non-demonstrator you would receive \$7.50

Please feel free to email me if you have any questions or would like to volunteer at solvarrsforge@gmail.com



**NC
Whisper
Low Boy**

**NC
Whisper
Momma
w/Open
End Ports**



*Minimize fuel consumption when you're forging **small hooks, leaves, flower parts and ornamental pieces** from bar stock. Place the bar stock through the end ports, leaving front door closed for quick heat recovery.*



NC Tool Company Inc
 6133 Hunt Rd, Pleasant Garden, NC 27313
 800/446-6498 www.nctoolco.com

Forging Colonial Ironwork

Jerry Darnell's new book *Forging Colonial Ironwork* is finally here. It is a compilation of over 22 years of teaching notes at John C Campbell Folk School and various conferences throughout the US. The book is about 120 pages both sides and divided into 4 chapters; Colonial Lighting, 18th Century Hearth Equipment, Early American Hardware, and Hooks and Hangers. There is a mix of 63 different projects from simple to advanced.

The cost is \$20.00 plus 6.75% tax and \$10.00 for shipping and handling. Order by phone, e-mail or visit the salesroom M-F from 10 to 5 and on Sat. 9:30-5.

www.millcreekforge.com
 Mill Creek Forge
 Jerry Darnell
 4512 Busbee Road Seagrove, NC 27341
 E-mail forge_on@rtmc.net
 Phone: (910) 464-3888 (Shop)
 (910) 464-2636 (House)

Regional Reports

Wilkes Teaching Forge

Report from Lyle Wheeler

The Wilkes Teaching Forge (WTF) met on 10MAR2015 at the Wheeler Forge with a good turnout. The demonstration was led by Lyle with a quick run-through of a handle for a cooking trivet featuring a punched and drifted hanging hole. John Freas then made a coat hook from $\frac{1}{4} \times \frac{1}{2}$ material. Lyle then ran through a demonstration for a drive or beam hook and we all helped Noah and William with their first attempts at this item. A discussion was held on the differences of water and oil to quench tool steel and their specific uses.

WTF met on 15APR2015 at the Wilbar Forge hosted by Gary Roath. We were glad to get back out to the Wilbar forge as Gary has it equipped with multiple anvils and the works progressed smoothly with more than one anvil ringing! Leaves were the topic of the night for the beginners and we all helped them through their first leaves, most of which could be recognized as a form found in nature. Josh Cooper was welcomed as a new member. Announcements were made concerning Fire on the Mountain with plans to attend.

Southern Foothills Blacksmiths

Report and photos by Ray Clontz

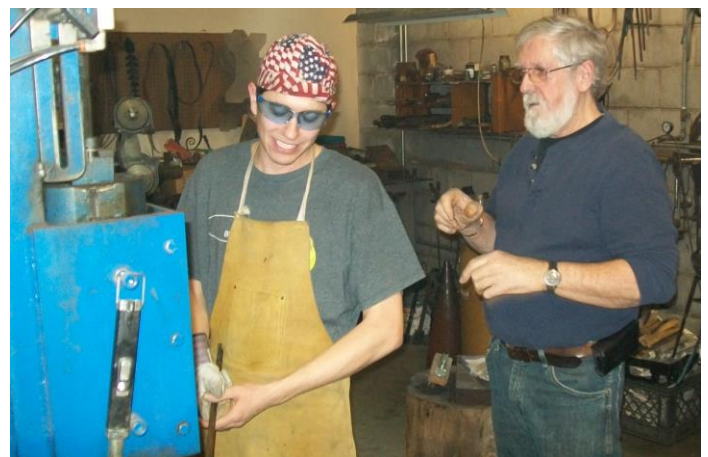
As usual, we had a lot going on in our meetings, some first time visitors as well as our members working on their projects. Seems like all first timers want to make some type of weapon such as a knife, tomahawks, or zombie killer club. Most leave the meeting with something they have forged and are usually very proud of the item. We usually have some materials such as auto coil springs, railroad spikes, or high carbon bolts for them to practice on. We have members with experience in forging as well as grinding, heat-treating and tempering to help them on their projects.

We had a couple of guys show up at the last meeting who brought back a lot of memories for me. About 15 or more years ago, my wife and I went to Denton Farm Park, and in the restored plantation house and outbuildings, were some blacksmiths demonstrating. I had always been interested blacksmithing and would always

spend time with the blacksmiths when I was involved in Civil War reenacting. The blacksmiths demoing were Tal Harris, Jimmy Freeze, Scott Beam, and Al Cody. I picked up an information brochure about NCABANA and have been involved with NCABANA ever since. At the time, I had no idea that an organization such as ABANA or NCABANA existed. As the saying goes, "it pays to advertise". The 2 guys visiting our meeting were Jimmy Freeze and Scott Beam. Jimmy and Scott are wheelwrights as well blacksmiths and demo making wheels each year at Hart Square. Some of you may have seen Jimmy on Folkways when he was helping Ustace Conway forgeweld a chain-link at his preserve near Boone, NC.



Always a crowd with the Foothills Blacksmiths



Advice is only a foot away when using a power hammer.



Most people underestimate the amount of grinding and polishing that goes into blacksmithing. Looks like the smith above is working hard and focused even in a busy shop.



This smith used old bolts to forge knives.



Very proud of their work indeed! Looks like the hard time under the power hammer paid off.



It is important to know how to use both sides of your hammer.



A lot of people wanted to make knives this time. This one above is a good start.



More power hammer work. Large stock or an action photo?



Hand hammer work is harder but even more important to know as a blacksmith.



Another happy blacksmith-in-training.

Triad Area Blacksmiths

Report from Marshall Swaringen

You can tell spring is here when Larry and Darlene Crews host our March Saturday meeting at the Crews Ironworks Shop. There were twenty plus people in attendance and lots of projects being made. Lunch was provided by TAB with our Master Cook, Ronnie Nifong, flipping the burgers and dogs. What a GREAT DAY of work, fun and fellowship. As always - THANK YOU Larry and Darlene for your hospitality and for making this yearly event one not to miss (already looking forward to next year).

As always the spring and summer months are busy for all of us with many opportunities to promote Blacksmithing and doing demos across Northwest Piedmont. But it looks like we need a training session on how to take pictures and send an email.

I hope many of you will come to the State Quarterly meeting in June which will be held at Dixie Classic Fairgrounds - Yesteryear Village in Winston-Salem.

Quarterly meeting information:

Place: Dixie Class Fairgrounds, Yesteryear Village, Winston-Salem, NC

Gate #9

Date: June 27, 2015

Time: 9:00 am

Lunch will be BBQ at ~\$5 per plate

Morning Demonstration – Ian Thomsen

Afternoon Demonstration – Paul Spainhour

BRING items for IRON in the HAT!!!

Tailgating around the shop

Opting Out

NC ABANA is going to publish the full list of members in the 3rd quarter 2015 “Hot Iron Sparkle” newsletter to help connect members across the state. We are going to include members’ name, address, and phone number.

If you would not like your information published, please contact Jennifer Phillips before July 31st, 2015. Her email is northcarolina.abana@gmail.com and address is 97 Trinity Ridge Lane, Banner Elk, NC 28604.

Event Reports

NCABANA 1st Quarter Meeting

Story & Photos by Doug Wilson

NCABANA was hosted by Oak Hill Iron in Morganton on 21 Mar. Lucas House of Iron House Forge in Raleigh provided the demonstrations.

Lucas started with an explanation of the principles of forging aluminum. Temperature control is critical. Too hot and the aluminum can melt or fracture. Forging temperature can be monitored using the fading of a Sharpie mark, marking with a pine stick or using an optical thermometer. Actual forging temperature depends on the alloy of aluminum. For 6061 aluminum, hand forging temperature should be 800-900 degrees, which is below a visible glow of the metal.



Lucas tests temperature of aluminum with a pine stick

Lucas demonstrated what happens when aluminum is overheated, which can easily happen in a standard gas forge.



Aluminum heated to red and overheated



The result of forging an overheated aluminum bar

Lucas proceeded to demonstrate a series of traditional forging techniques.



Slitting a hole in the bar, Matt Clark striking



Driving a drift to open the slit hole in the bar



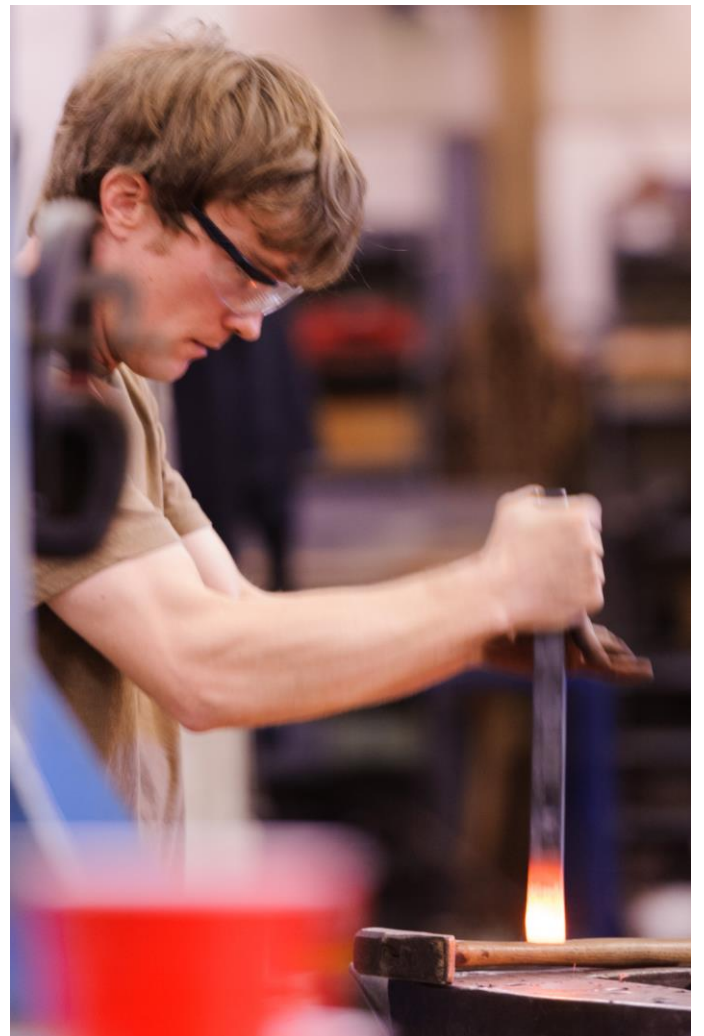
Finished slit and drifted hole



Lucas talks through the construction of a door pull



Reaching the limits of a tight twist in aluminum



Beginning upsetting a 1" bar



A finished element demonstrating the ductility of aluminum

After lunch Lucas moved on to demonstrate one of his standard door pulls.



Finishing the flare on the upset with the hammer



The bar has been flattened and then twisted a quarter turn

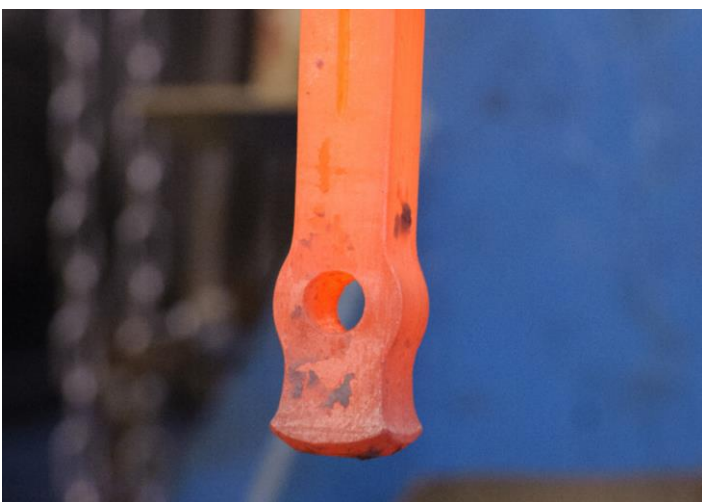
The upsetting, punching, flattening and twisting was then repeated on the other end of the bar.



Marking to punch a hole



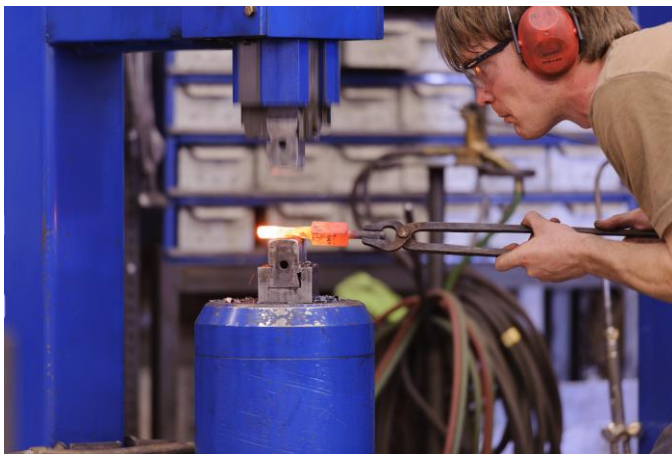
Smithin' Magician with butchers was used to isolate a tenon



Finished punched and drifted hole



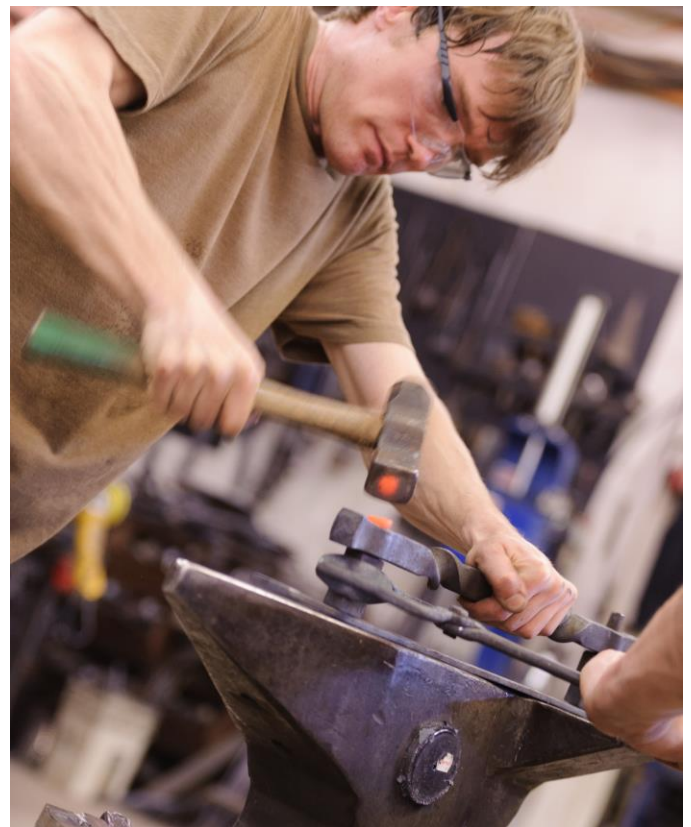
Drawing out the tenon on the power hammer



A tenon is isolated and drawn out on the other end of the handle stand-off



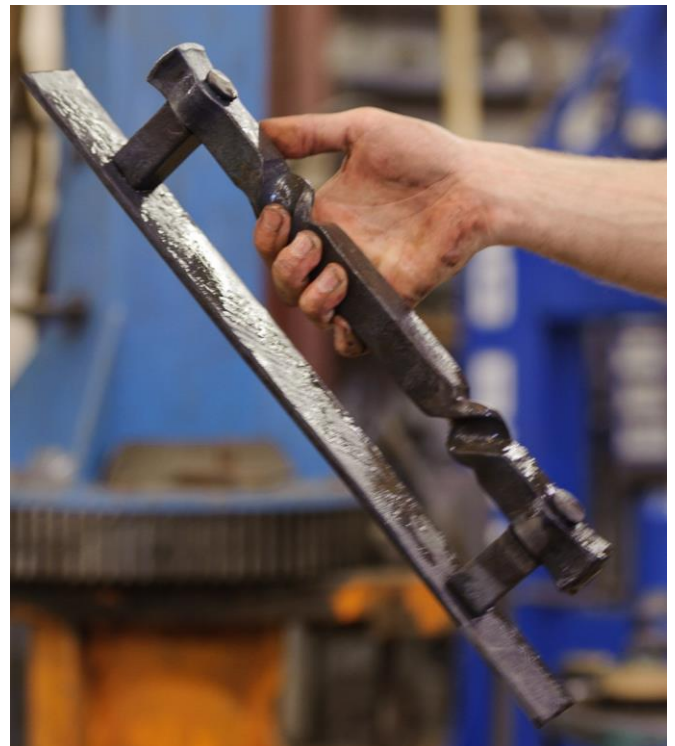
The backplate of 1/8" steel is textured



The tenons for the handle and backplate were set hot



The tenons are cut to length and fit



The finished door pull

Classic Antique Power & Tractor Show

Article & Photos by Amy Hinson

I had the opportunity, for the second year, to demonstrate at the Classic Antique Power & Tractor Show in Benson, NC along with my friend Amos Tucker and cousin Jeremy Parker. It was a beautiful day with a great turn out.



Tractors in line as far as the eye can see



Forge is lit for a long day of fun



Hugs with Amos & Jeremy



Forge is set up and ready to go



Forging hard all day

Featured Articles

Photo Gallery

Assembled by Jennifer Phillips

This is the fourth installment of the NCABANA photo gallery. This quarter's gallery has a lot of showcase pieces in it. While I think it is important to include easy projects that the everyday beginner smith can attempt, I also think it is important to highlight some of the truly amazing smiths out there that create huge works of art. I recommend you view some of these from the color downloadable copy of the "Hot Iron Sparkle" to get a better feel for the finishes used as well as the few that are in color.

If you would like to have some of your work featured, you can message my Facebook account (NC ABANA) or send an email to northcarolina.abana@gmail.com. I can also scan and upload any pictures mailed to my address (on Page 2). I hope you enjoy these pictures as much as I have and happy forging.



Starting off with some fireplace pokers made by James Tuttle from Omaha, Nebraska. James is the owner of Omaha Village Smithy and makes a lot of traditional pieces.



Above is a detailed picture of the handles. Check out the pineapple twist!



Above is a dragonfly, also made by James Tuttle, that shows the versatility of blacksmithing. Notice the delicate scrolls used as antennae.



Sticking with the animal theme, this little dog is textured to the max. There is even a matching fire hydrant.



These sewing needles are huge at almost a foot long each!



James Tuttle shows us some great detail work with the above cherries. Make sure to look at the color version of this issue online to get a better perspective of the colors used. Even the stems have a hint of green.



This last picture from James's shop is of hot peppers. The texture can be seen even in the black and white version. It is little accents like these that make a blacksmith's work stand out above the rest.



This piece is from John Rigoni, owner of Rigoni Ironworks, out of Houston, Texas. The scale of this wood rack is outstanding.

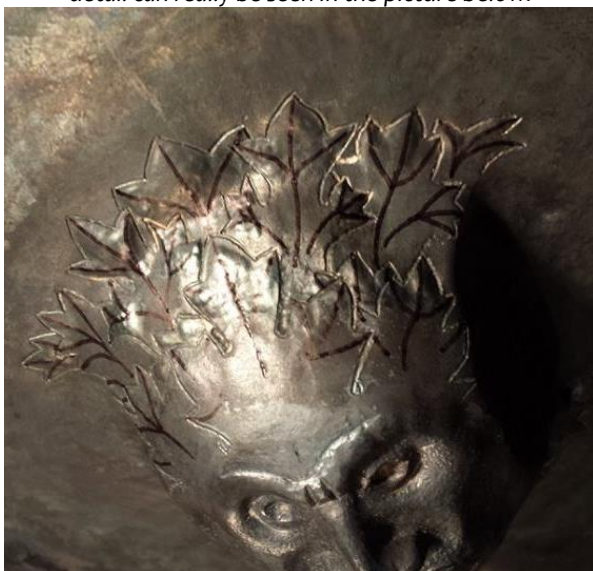


Above are some serious bottle openers. These are always a best seller at the state fair so start working on your inventory now if you are planning on vending this year. Below is a better detail of this simple but effective style.





Also from Rigoni Ironworks is this amazing door knocker. The detail can really be seen in the picture below.



Here is a picture of the knocker part itself. Notice the hard angles on the sides. It must have taken a while to get them smooth and polished.



The garden set pictured above is both beautiful and functional.



Our last piece from John Rigoni is a candle holder with extraordinary detail. Joinery of this magnitude isn't usually seen on candle holders so please enjoy this treat.



We don't often get to enjoy railings in the photo gallery because of the size but this panel is just perfect for an illustration. Made by Ryan Calloway, owner of Creative Iron Works; this small panel of railing has elegant scrolls and an organic feel.



I know there are a lot of fans of scrap art out there and while these birdhouses might not be true scrap art, they are close enough. I wonder how big the hook is that holds these up.



The above picture is also from Ryan and illustrates even more of their artistry. Check out the detail of the textured peaks below.





Also by Ryan Calloway out of Greenville, SC; this table is a beautiful end piece or even a standalone nook. It is amazing how some of the rivets are functional and others are there purely for the aesthetic.



The details of this bike rack are endless. So many upcycled bike parts!



This showcase piece is our final one from Ryan. I think it is the biggest bike rack I have ever seen that was made by a blacksmith. The whole panel on the right contains pieces of old bicycles.





Our photo gallery wouldn't be complete without at least one fireplace screen. This flowing piece is from Victoria Ross Patti, owner of Iron Fusion Design in Arvada, Colorado. It is great to see the variation in style throughout the country with things as common as fireplace screens.



This fireplace maquette turns simple scrolls into beautiful lines. The texture on the tips of the scrolls really makes them unique. I also love the ornate copper collar that adds just enough of an accent to give the illusion of a scroll bouquet.



Our showcase piece from Victoria is of this unique winged chair (pictured above completed and below in progress). Used for meditation, the wide seat is a perfect place for relaxing while enjoying nature. I have already added one to my honey-do list.



The details on the giant wings are what makes this chair as much a work of art as it is functional.



The last blacksmith for this quarter is known to any of you on Facebook. Paul Beisler from the Washington, DC area made this beautiful curtain rod (pictured above & below). I think many of us forget about curtain rods when using metal to accent our homes and this is a great example of how the small details can really upscale your residence.



Sculptures don't need to be big to stand out as these three from Paul show us. Think of all the possibilities that could go on top of a single scroll base.



Or instead of a scroll base, how about a thick piece of metal? The twists and texture just before the leaves are elegant and strong.



At the Big Blu shop, these are called Beisler faces. The ones pictured are made from steel but I have seen many replicas made with copper sheet as well.





I think there have been flowers so far in every photo gallery. The leaf design of this one by Paul is truly unique. The many layers and slight texturing made it truly stand out.



Our last pictures from Paul are of his work making hand hammers. The picture above shows the variety of styles there are to choose from.



Stamping your touchmark into a product is what separates a hobbyist blacksmith from a professional.



Also part of the Beisler brand are these skulls. I have seen these at countless blacksmithing events around the country. Where would you put one?



In the process of being made, this hammer should be inspiration to get out there and make your own hammer.

Library Relaunch Information

Article by Garret Dunn & John McPherson

Announcing the relaunch of the NCABANA Library!!! Many of us have not been aware that the club has a library of books available to loan out because we have had a tough time finding a volunteer to put in the effort to manage it. Thanks to the generosity of John McPherson, we will now have the collection available to all members. John will be bringing them to the Quarterly meetings he attends, so you can see them in person, as well as making them available for you to through the mail.

Here is how it will work:

If you are a member in good standing of NCABANA, then the item you select will be mailed to you as soon as it is available. You may keep it until the next quarterly meeting that John attends, or mail it back to him at that time. A return address label will be included when the book is mailed to you. All books must be returned in the condition that they were received or you may be charged for the damages or replacement costs.

1. You may have ONE book (Code BK), ONE video (Code VID), FOUR Hot Iron Sparkles

(Code HIS), or FOUR magazines (Code MAG) at any one time.

2. Pick out the item you are interested in and fill out the Request Form. They should both be here in the newsletter somewhere and we will also be getting them on the website at some point.
3. Send it to John through email – trollworks@hotmail.com. He will then pop it to you when it is available. Or just wait for a regional meeting that John is attending, you can check it out there.
4. Return it at the next regional meeting or through the mail. You pay the postage!

Many thanks go to John for volunteering his time on this for the benefit of educating us in blacksmithing.

We are also looking for donated items to expand the library and suggestions for future purchases so if you have some books you don't need anymore – put them to work in the club library!

NCABANA Library Item Loan Form

Name: _____ Date of Request: _____

Address: _____ City, State: _____ Zip: _____

Telephone: (____) _____

Email Address: _____

Item Code (If Known): _____

Title/Author: _____

Email this request form to John McPherson trollworks@hotmail.com with NC ABANA in the subject.

Return Items To: NCABANA C/O John McPherson
3031 Chenango Drive
Charlotte, NC 28212

NCABANA Library Category Listings

Last Updated April 23, 2015 by John McPherson

Modern Blacksmithing Guides - Since WWII - Beginner to Advanced

- BK-00012-A "Basic Blacksmithing, Intro to Tool Making" 1993 Harries, David & Heer, Bernhard
Written as an Instructor's guide to teach self-sufficient toolmaking to Third World farmers, starting from scrapped car parts. Good line drawings, and builds on skills from simple to complex.
- BK-00016-A "New Edge of the Anvil" 1994 Andrews, Jack
Over 150 excellent drawings and discussions of tools, equipment and skills from a gifted Instructor.
- BK-00017-A "The Smithy's Craft and Tools" 1981 Schmirler, Otto
A primer of ornamental ironwork, and the tools and processes to create them. Over 200 photos and many drawings present the manual hammer and anvil skills to produce architectural works without power tools.
- BK-00028-A "Professional Smithing: Traditional Techniques for Decorative Ironwork, Whitesmithing, Hardware, Toolmaking & Locksmithing" 1980 Streeter, Donald
Geared towards turning out products to sell in shops and market stalls, he makes great use of jigs and fixtures for working alone and running a business. Many step by step projects in B&W photographs.
- BK-00009-A "The Blacksmith's Cookbook, Recipes in Iron" 1986, Rev 2010 Whitaker, Francis
Advanced tips, tricks and skills from a master craftsman, teacher and noted curmudgeon who started out with Samuel Yellin in 1922. Notes from 10 years of conducting classes and workshops nationwide.
- BK-00011-A "The Blacksmith's Craft: An Introduction to Smithing for apprentices and craftsmen" 1952 CoSIRA. The first book in the British series on bringing back the skilled building trades. Covers tools, equipment, fire management, processes, materials and projects.
- BK-00021-A "How to Forge Weld on a Blacksmith's Anvil" 1995 Heath, Robert M.
Unraveling the mysteries of forge welding in a fire.
- BK-00019-A "Practical Blacksmithing & Metalwork" 1980, Rev 1988 Blandford, Percy W
Dry and lackluster text in a dated style, disjointed and un-inspired projects with simple line drawings.

Older, Reprinted Blacksmithing Guides - Pre WWII

Most of these books suffer from being written for Instructors' personally training rural and industrial smiths working in wrought iron, not modern steels.

- BK-00005-A "Forge Craft" 1913 Crowe, Charles Philip
Part I -Tools & Materials, is good, basic hand forge work on an anvil. Parts II & III were geared to Industrial smiths working in large factories and shops. Good black & white photos.
- BK-00006-A "Blacksmith Shop & Iron Forging" 1906 International Correspondence School
Another trade school guide to cover basic to advanced toolmaking for Industrial trainees
- BK-00025-A "Blacksmith's Manual Illustrated" 1930 Lillico, J.W
Geared to Industrial smiths working in complete shops, there is still a lot of info on planning and executing complex forging operations. Excellent for power hammer operations.
- BK-00010-A "Elementary Forge Practice" 1904, Rev 1914 Bacon, John Lord
Yet another trade school guide to cover basic to advanced toolmaking for Industrial trainees.
- BK-00026-A "Plain and Ornamental Forging" 1916 Schwarzkopf, Ernst
A trade school text from a century ago, covering basic to advanced toolmaking, and then ornamental iron.
- BK-00020-A "The Complete Guide to Blacksmithing, Horseshoeing, Carriage and Wagon Building and Painting" 1902 Lungwitz & Adams
Complete waste of time is more like it. Poor illustrations and stuffy text, the section on horseshoeing may be of historic interest to farriers.
- BK-00007-A "Forge Work" Ilgen, William L.
- BK-00008-A "Hardening, Tempering & Heat Treat" Cain, Tubal

Guidebooks on Old Crafts and Tools

- BK-00001-A "A Museum of Early American Tools" 1964 Eric Sloane
Excellent drawings and descriptions of Colonial era tools and how they were used, by a famous artist.
- BK-00004-A "Blacksmith's and Farriers' Tools at the Shelbourne Museum" 1966 H.R. Bradley Smith
A collection of museum articles assembled in book form, this covers in depth every common and most uncommon tools found in a historic shop, and how it was used. Many black & white photos.

Photo and Pattern Books

- BK-00002-A "Catalogue of Drawings for Wrought Iron" 1973 CoSIRA
The 4th and largest volume, sketches of products to be copied and produced.
 - BK-00013-A "Decorative Ironwork" 1962 CoSIRA Book 3 in the series.
All of the tools and techniques to forge a classic European driveway or garden gate.
 - BK-00014-A "Wrought Ironwork" 1953 CoSIRA Book 2 in the series.
All of the tools and techniques to forge a classic English driveway or garden gate.
 - BK-00022-A "Build a Hydraulic Forging Press" Batson, James L.
 - BK-00018-A "Practical Projects for the Blacksmith" 1980 Tucker, Ted
If you are stumped for project ideas, then this is the book for you. Lots of photos and line drawings to accompany the step-by-step instructions.
 - BK-00023-A "Wrought Iron Designs" 1873 Grave, H.
Architectural grade drawings of European ironwork of the 19th Century, in all its splendor.
 - BK-00024-A "Wrought Iron Artistry" 1983 Schmirler, Otto
Almost wordless, this 168 page volume contains 765 photos, sketches and scale drawings of ironwork.
 - BK-00003-A "Der Kunstschmied" 1976 Schmirler, Otto
Another amazing volume of images, this 224 page volume contains over 800 photos, sketches and to-scale drawings of ironwork.
 - BK-00029-A "Wrought Iron in Architecture: An Illustrated Survey" 1929 Gerald K. Geerlings
The breadth and majesty of pre-WWII iron work in European architecture.
-
- TBJ-00001-A "The Blacksmith's Journal" 8/90-7/91 Jerry Hoffmann
 - TBJ-00002-A "The Blacksmith's Journal" 8/91-7/92 Jerry Hoffmann
 - TBJ-00003-A "The Blacksmith's Journal" 8/92-7/93 Jerry Hoffmann
 - TBJ-00004-A "The Blacksmith's Journal" 8/93-7/94 Jerry Hoffmann
 - TBJ-00005-A "The Blacksmith's Journal" 8/94-7/95 Jerry Hoffmann
 - TBJ-00006-A "The Blacksmith's Journal" 8/95-7/96 Jerry Hoffmann
>>A bound compilation of a monthly magazine of projects, some quite advanced.

Life Stories and General Info

- BK-00015-A "The Art of Blacksmithing" 1969, Rev 1976 Bealer, Alex W.
The book that started ABANA, Bealer was a historian that went around interviewing old tradesmen and recording their stories and tools after WWII. Mostly factual, and rambling and chatty, but with relatively few illustrations and projects, so not a good guidebook for beginners.
- BK-00027-A "My Life as an Artist Blacksmith" 1995 Whitaker, Francis
- BK-00030-A "The Artist-Blacksmith's Craft" 1935 & 1941, Rev 1995 Julius Schramm

NC ABANA Newsletters ("The Hot Iron Sparkle")

HIS-00001-A NC Newsletters from 5/95-Present Harris/Smith

Pamphlets

PMP-00001-A Get It Hot and Hit It!! 1978 Steve Kayne

Videos

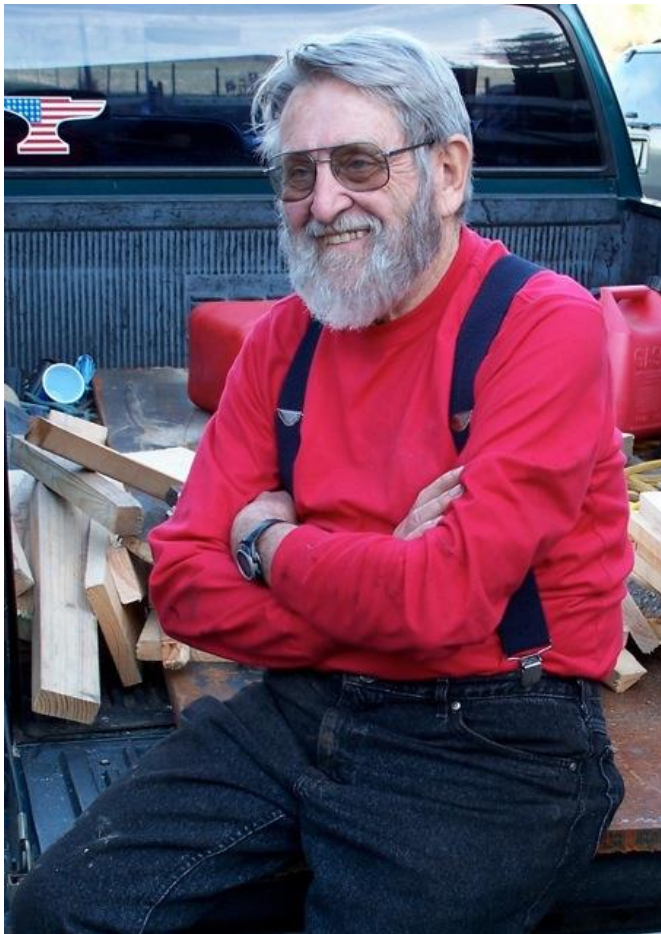
VID-00001-A (VHS) Tal Harris Traditional Scroll Work Tal Harris Demo, Denton, NC 1996

New Lifetime Member: Clay Spencer

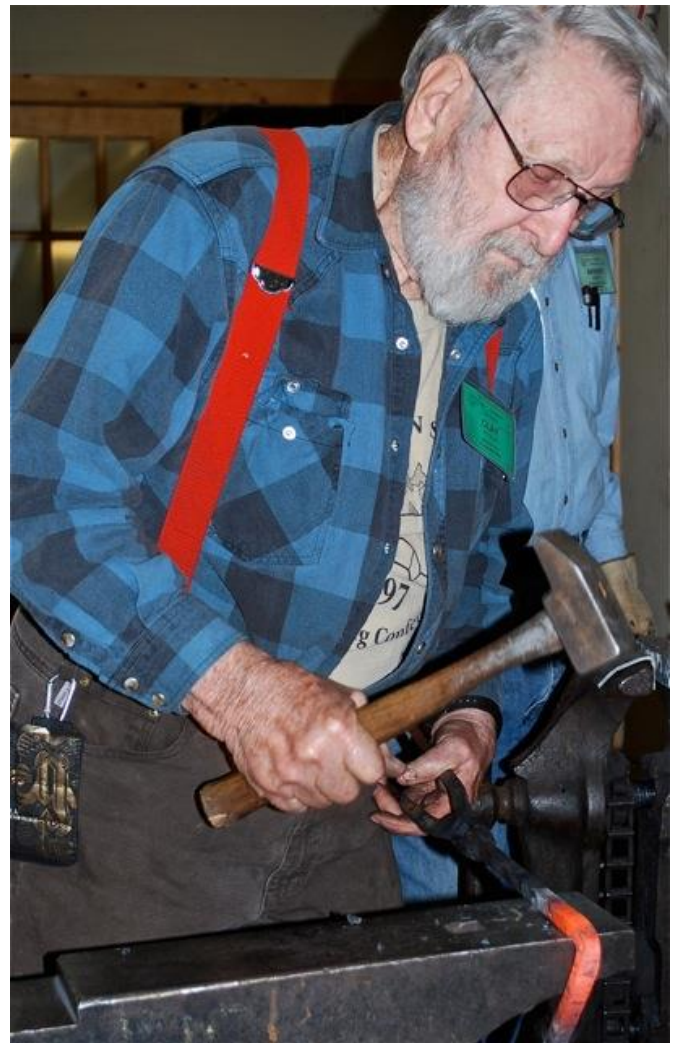
Article & Photos by Julie Clark

Since you can easily Google Clay Spencer's name and read a lot about him, I am going to refrain from repetition and discuss a few qualities that you won't read in the standard write-up. These qualities are devotion, modesty, willingness to share, willingness to learn, and a remarkable ability to always look forward.

Clay is, of course, devoted to the craft of blacksmithing, but the devotion I am referring to is his loyalty to the people involved in the blacksmithing community. The craft really is secondary to the individuals who practice it. His devotion can be measured in the untold number of times he has held out his caring hand to help his fellow blacksmith in all kinds of situations.



Once I heard Clay brag about the shop at the John C. Campbell Folk School being named in his honor. He gets a mulligan on that, because as a rule he just does not boast. Period. I truly believe he does not see his beautiful forging skills as an avenue to self-congratulatory action. Clay had rather brag on someone he knows, a talented blacksmith, or a beginning student than to ever reach around his own shoulder and pat his own back.



While some have a skill and wish to hold it close; others have a skill and wish to share. The reason, I believe, lies in the qualities of devotion and modesty. With the mind of an engineer, Clay's passion is figuring out how to make something and then showing others how to make it. Sharing is the life

blood which keeps the ancient craft of blacksmithing alive. No one knows this better than Clay.

What keeps Clay alive is recognizing there is still so much to learn. He will always be the first to ask, "How did you do that?" Yes, he is a 'traditional joinery' devotee, but he continues to experiment, trying on the new, and learning from others. An extraordinary teacher is indisputably an exceptional student. Clay has mastered each of these roles with proficiency and ease and continues to put in long hours teaching, forging, traveling, demonstrating, learning, and practicing as he makes his way all over the country. He has looked back in time to learn the skills of the ancient craft, but his focus is always forward.

How wonderful for Clay to receive (this life time award). He is so deserving. He truly represents what a human being should be, and how fortunate we all are that he chose blacksmithing to occupy his time after his illustrious career at the Marshall Space Flight Center. He might talk about that if you ask him, but don't expect him to, because that is in his past and if you have never met him, don't worry, you will. He is out and about and if you see him, just show interest in forging and you will become his friend for life and he will show you everything he knows, at least about blacksmithing.



After finding out he was awarded a lifetime membership to NCABANA, Clay had this to say:

"I appreciate very much the honor bestowed on me by the awarding Life Membership. It is very nice to be rewarded for doing what you wanted to as a "labor of love". All the friends I have met in blacksmithing has been so wonderful. Participating in blacksmithing has been one of the better parts of my life. Thanks, Clay."

New Lifetime Member: Marty Lyon

Article by Jennifer Phillips

Photo by Marty Lyon

I nominated Marty Lyon for a lifetime membership because of his huge contributions to NCABANA over the years as both secretary and editor to the organization.

Speaking from personal experience, the position of secretary is one of the most time-consuming jobs in the organization but is also one of the most important. The secretary talks to new members first and other aspiring blacksmiths that just want a little more information about the organization. It is the

secretary's job to help new members along and get them started in a local group so hopefully they become a long-term member and lifelong blacksmith. I think that Marty is a large contributor to why our current membership still stands at around 300 members.

As editor, Marty worked very diligently producing "Hot Iron Sparkle" newsletters every quarter. It is with consistent publications that NCABANA is able to maintain such a large membership base. His

newsletters were also very good at including how-to articles to help beginners as well as reprinted articles with more advanced skills loaned from other publications to keep the minds of older smiths fresh. I can't speak highly enough of how well the foundation that I now use as a guide each quarter in producing "Hot Iron Sparkle" was created and thus influenced by Marty.

I can't speak personally for his blacksmithing skills but even if he never picked up a hammer himself, Marty truly inspired and helped those who did through his acts and volunteer work in NCABANA. Thank you Marty for many years of hard work.

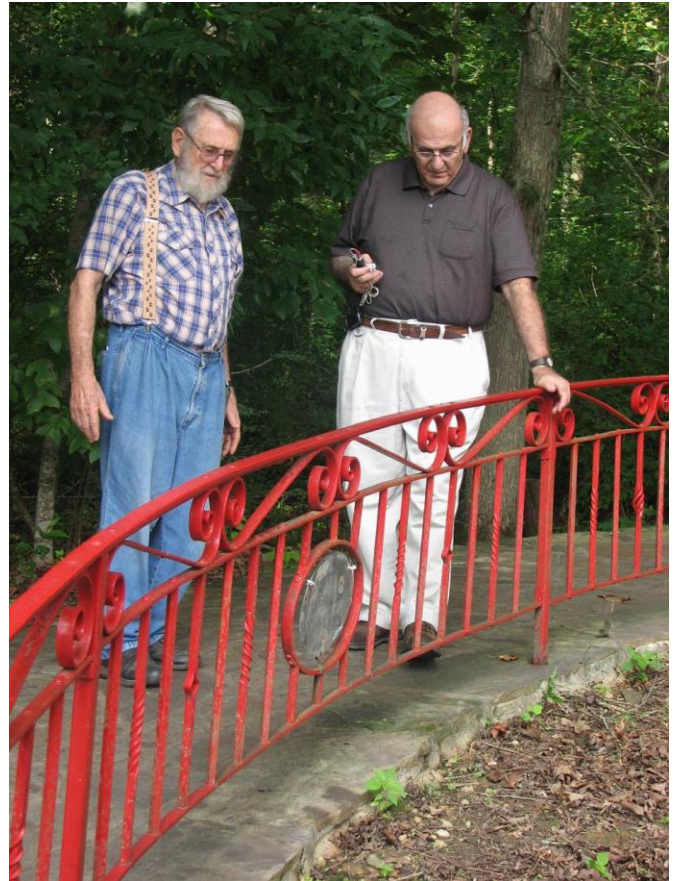
After finding out that he was awarded a lifetime membership, Marty had this to say:

"I would like to thank the board of NCABANA for bestowing Lifetime Membership upon me. It is a great honor.

I was introduced to blacksmithing about 15 years ago through my friendship with Donny Covalt. I can't say that I ever developed great skills (not Donny's fault), but the friendships I made maintained my association with the blacksmithing community. I never, in my life, met a more diverse and interesting group of people, people who were so willing to share their skills with others.

As I said, I had no great blacksmithing skills to share, but my six years as Secretary and Newslet-

ter editor became my way of being an active part of NCABANA. "



Pictured above is Marty Lyon with Clay Spencer at the John C. Campbell Folk School. Marty went out there shortly after the new blacksmithing school was finished to interview Clay for the newsletter. In the picture, Clay is explaining the construction of the red fence.

New Lifetime Member: Billy Phelps

Article & Photos by Marshall Swaringen

Billy's introduction to blacksmithing started early in his life. When he was 4 or 5 years old, his aunt, (Ralph Zimmerman's wife) was his babysitter. Ralph would take him to the blacksmith shop almost every day (don't know if Ralph was trying to stay on

the good side of his wife or taking advantage of free labor).

Shoeing horses was his first blacksmithing job. When Billy told Ralph he needed tools, Ralph's response was simple--make them. Billy took this to heart. Every time something is said about a tool, Bil-

ly says to heat some metal and make what you need. Billy has supplied many members with hammers, tongs, and chisels.



Billy Phelps at the Dixie Classic Fairgrounds, shop for the Triad Blacksmiths. Billy helps every year at the Dixie Classic Fair for the entire week. He is the first one there to set up and the last to leave in the evenings to close down. The fair would definitely be a lot harder without Billy's hard work.

After a couple of years of shoeing, he was ready for artistic endeavors. Throughout the years he has created many objects and tools. He enjoys making animal heads the most. They can be found on hooks, towel racks, hoof picks, or just the end of a bar of steel. At one Dixie Classic Fair, a cattleman wanted to know if Billy would make him a towel rack with a cow on each end. Billy said he had never made a cow-- out came the soapstone and piece of metal for a chalkboard. When he was satisfied with the drawing, metal was heated, hammer was banging, chisels were cutting and two cows, appeared one on each end. Yes, they were cows, no bulls, both with udders.

In 2006, the Smithsonian had a gathering of blacksmiths from around the world. Yes, you guessed correctly, this country boy from Woodlawn, VA represented the United States. The blacksmith from Africa got Billy's attention. He was working with all most no tools. His talent was only limited by his lack of tools. Billy made a complete set of chisels and gave them to the Smithsonian, who presented them to the blacksmith's tribal chief.



Thanks again Billy!

Billy has been a great asset to the Triad Area Blacksmiths. He was part of the rebirth of the club a few years ago. A great mentor to many members, Billy is now semi-retired but he will continue to share his expertise with anyone who is interested. Thank you, Billy, for all you do for Blacksmithing.

New Lifetime Member: Peter Ross

Article & Photos by Garret Dunn

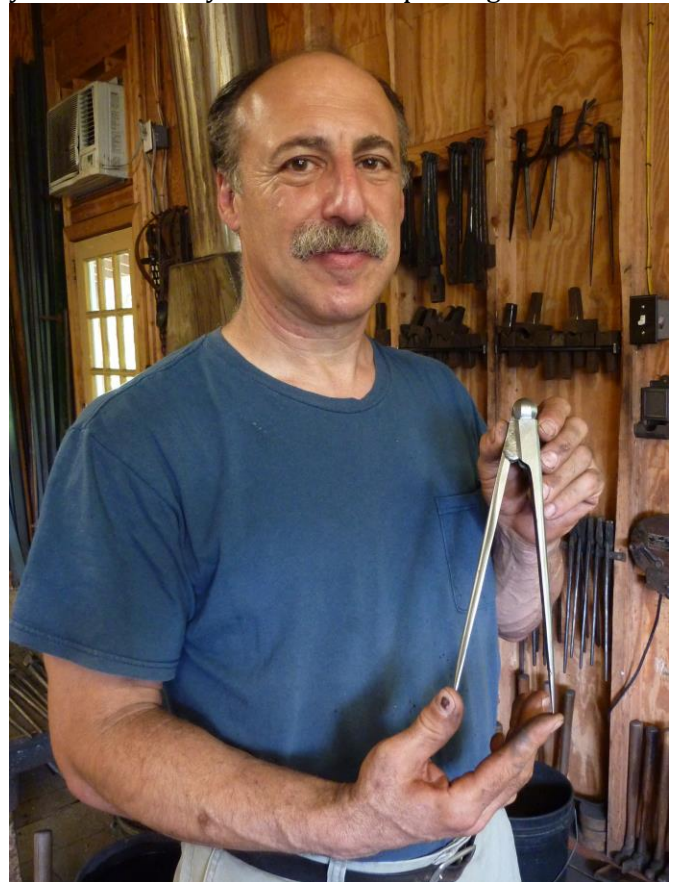
At the January club board meeting we considered how lucky we were here in North Carolina to have so many truly great smiths who were contributing so much to the art and were actively engaged in teaching the rest of us. Peter Ross naturally came to mind as someone to recognize for his achievements with an Honorary Lifetime membership. I got ahold of Peter by phone recently to tell him the news and to write up a few words from him about his early days.

Peter told me his story of how he got started and it is remarkable how similar it is to the stories I have heard from many others. Long before Peter built his skills to where they are today, he got his start as a teenager making a Hook in a beginner's class at the local history museum. After that he moved on to making a simple forge at home, assembling the basic tools, and eventually at 17 started volunteering at the historic Old Beth Page Village on Long Island. That was the experience that ignited his passion for historic recreation work. There he made replica pieces and got instant feedback from the curators on the accuracy of the piece because they would immediately start to use it. That feedback was something the average hobby smith doesn't have and it challenged him to meet the goal of using the same tools, in the same way as the original craftsman.

Fast forward from there to after 25 years of applying that philosophy at Colonial Williamsburg. As he continued studying these methods, an interesting thing happened – he needed fewer and fewer tools. Today, while he still enjoys collecting, in his actual work, he uses one hammer, one anvil, a few punches, drifts, files, and maybe 2 vises. As the experience grew the need for special tooling, jigs, all the oddball specialty tools people love building just were not needed. By using minimal tools his design and execution just kept improving, giving the work a personality or charisma that could

never be matched by jigs. The lesson here for us all is to keep making things freehand; it can be more aggravating at first but much more rewarding later.

Peter ended his story with some advice for all of us. When he is teaching he is expecting it might take five to ten years for us to learn it. Don't expect to be perfect right away, learning is a process and you have to make things over and over. Your second one will be better than your first, your tenth better than your ninth, and when you are making your fiftieth they will still be improving.



Peter Ross in his shop in Siler City, NC.

We are honored to have Peter settled down in North Carolina and he has been generous with his time for giving demos for the club. He will be opening his shop to us again on June 6, 2015 for a special bonus meeting – Save that date!

New Lifetime Member: Bernd Mergener

Article & Photos by Marshall Swaringen

In Germany in the 1960s, when grade school was completed, students had to make a choice between more schooling for college or to start training for a trade. Sometimes they were not given a choice because of their performance in school. When he was 14 years old, he was sent to two businesses and had to pick one for trade training. The businesses were beside each other. While most people would check the businesses and decide what seems best for them, Bernd liked the looks of the building on the right. Not knowing what either business was, he started his journey as a blacksmith in training. He later learned that the other shop was a machine shop. He says he made the right choice.



After three years as an apprentice, he received his journeyman certificate. His first task as an apprentice was to make a one inch cube. After three weeks, it was not square nor a cube, but OK and he was ordered to get to work. A couple of weeks after he received his journeyman papers, he quit and tried other jobs as a beer deliveryman and construction.

In 1970 he met his wife to be, married, and moved to Idaho and from there to a fabrication shop in Florida. In 1978, he started working in a Blacksmith shop in Florida. A couple of years later, the heat took its toll. After spending eight hours on the forge, a slow four mph ride home in triple digit heat, he told his wife we are moving to Maine.

Instead of Maine, North Carolina became his new location. He accepted jobs in different fabrication shops. In 1991 he was laid off. He then worked in the Old Salem Blacksmith shop for four and half years. Bernd opened his own shop and stayed there until his retirement due to medical reasons.

However, he has not let his retirement completely stop him. Join a Triad Area Blacksmith meeting and when you see a newbie having trouble, Bernd will jump in (slowly) and give advice and show them how he does it.



Thanks, Bernd, for your help and advice over the years!

New Lifetime Member: Jerry Darnell

Article by Jennifer Phillips

Photos by Doug Wilson

Jerry Darnell has been a valuable blacksmith to NCABANA for many years. Most of you might have seen him demonstrate last year at the quarterly meeting. But here I wanted to include a little bit about his blacksmithing past. Below is an excerpt from the Mill Creek Forge website about Jerry's start as a blacksmith:

"I was raised around my father's welding shop and was exposed to working with iron most of my life. I didn't know much about blacksmithing in those days (the 50's and 60's) so what little I knew came from self-teaching and talking to old iron workers. There were not very many books, newsletters, organizations or craft schools teaching blacksmithing back then so most of us worked craft fairs and historical sites.

I learned from a weaver friend about a place in the mountains near Brasstown called John C. Campbell Folk School and that they were teaching a blacksmithing class there. Jim Kroplin was their first resident blacksmith teacher. He had learned from Oscar Cantrell who ran the shop there for many years and was retiring. I was in one of the first classes with four other would be smiths. The next year I heard that a Blacksmith from Colorado named Francis Whitaker was coming to teach there so I signed up to be in that first class. Having only one forge and three old anvils, we just watched Francis do one demo after another. After those years Conferences started popping up all over. New state and regional groups were being formed and books and newsletters were starting to appear. So time progressed some 40 years now and here I am still forging iron."



Currently Jerry works out of his own shop called Mill Creek Forge in Moore County, North Carolina. He does mostly custom work with multiple showrooms for any visitors.

Also, as most of you know, Jerry has already written two books with very detailed how-to drawings for blacksmiths (see page 5 for ordering info). Before he even considered publishing these books, I was receiving requests left and right to get Jerry to publish his notes. Apparently, the details of his sketches and step-by-step instructions are beyond comparison.



Thank you Jerry for all the improvements you have made to the blacksmithing community, especially in the written world. It is truly a pleasure to have you as a lifetime member of NCABANA.

Revised by-Laws

Every few years the NCABANA Board publishes the by-laws for the organization to make sure members have full access to the goings-on of the nonprofit. This time the by-laws have been recently updated with a few minor changes. If you see anything that still isn't perfect, please feel free to let someone in the Board know. Otherwise, I hope you find them informative and suitable.

NORTH CAROLINA CHAPTER OF ARTISTS BLACKSMITH'S ASSOCIATION OF NORTH AMERICA BY-LAWS

ARTICLE I: Name and Purpose

The name of this association shall be the NORTH CAROLINA CHAPTER OF ARTIST BLACKSMITH'S ASSOCIATION OF NORTH AMERICA, here forth referred to as NCABANA. NCABANA is a non-profit voluntary membership association of individuals interested in Blacksmithing.

NCABANA is organized exclusively for artistic and educational purposes (within the meaning of the term "artistic" and "educational" as used in section 501(c)(3) of the Internal Revenue Code). NCABANA will support activities such as the following: encourage and facilitate the establishment of training programs for blacksmiths; disseminate information about sources of materials and equipment; serve as a source of information among blacksmiths; to maintain and improve communications among blacksmiths of professional, amateur, teacher, and student status; encourage higher standards of craftsmanship and design among smiths; conduct workshops and provide instruction by knowledgeable and experienced smiths; marketing and to foster friendly relations among practitioners of the art by means of periodic meetings and other modes of communication.

The principal office of the NCABANA shall be at the home of the NCABANA President. The Board of Directors shall have the power and authority to establish or make a change of office to another location.

ARTICLE II: Elected Officers

The elected officers of NCABANA shall be President, Vice-president, Secretary and Treasurer.

These officers will function as the Executive Committee. They shall be elected for a term of two years. Executive Committee shall serve without salary. Executive Committee are expected to attend all chapter meetings and be available to act on NCABANA related matters. The travel expenses and other expenses incurred by the Executive Committee acting in their official capacity must be approved by a majority vote by the Board of Directors. Within NCABANA, the interpretation of the NCABANA By-Laws together with any rules of NCABANA shall rest with the consensus decision of the Executive Committee. They shall have further duties as prescribed below.

Nominations for elected officers will be open during the 2nd and 3rd quarter meeting of each year. Candidates for office must be a member in good standing for at least two consecutive years prior to the nomination and a resident of North Carolina. Voting shall be held by secret ballot. Ballots will be mailed to the members by the Secretary after the nominations are closed. The results shall be opened and counted by a committee of three appointed by the President. Counting shall be done at the 4th quarter meeting. In case of uncontested elections, the President has the power to dispense with the mailing of ballots.

The elected officers shall take office in January.

There shall be no limit to the terms of office that the officers may hold.

Vacancy in any office because of death, resignation or other cause may be filled by a majority vote by the Board of Directors for the unexpired term.

Elected officers may be removed from office by a 2/3 majority vote by the Board of Directors.

Section I: Power and Duties of Executive Committee

PRESIDENT

The President shall be the principal executive officer of NCABANA and shall, in general, supervise and control all the business of NCABANA. The President is to be responsible for planning and executing the programs for the organization. The President shall preside at all meetings of the Board of

Directors. The President shall preside at all meetings held by the membership of NCABANA. The President shall have the power to appoint any committee or individual he/she deems necessary for the proper functioning of the organization. Any additional duties or responsibility that may arise from time to time shall fall under the responsibility of the President, unless expressly assigned to other officers by these by-laws. The President shall have the power to authorize any payment for any proper NCABANA purposes up to \$500. Payments over \$500 require approval of two thirds of the Board of Directors. President is responsible for the newsletter which should be sent out at least two weeks prior to the scheduled meeting. The President may delegate any responsibility at his/her discretion.

VICE-PRESIDENT

In the absence of the President, or in the event of the inability or refusal to act by the President, the Vice-president shall perform the duties of the President. The Vice-president will oversee Iron in the Hat at chapter meetings.

SECRETARY

The Secretary shall maintain minutes of all meetings, record all decisions made by Board of Directors and Executive Committee. These shall be kept as a permanent record of NCABANA. The Secretary shall be the custodian of all NCABANA records. The Secretary shall handle all official correspondence for NCABANA. The Secretary shall keep a current membership list with names, address, phone number and e-mail contacts.

TREASURER

The Treasurer shall have custody of and be responsible for all funds and securities of NCABANA, shall receive and give receipts for monies due and available to NCABANA from any source whatsoever, and shall deposit all such monies in the name of NCABANA in such banks, trust companies or other depositories as are selected by the Board of Directors. The Treasurer shall use good accounting practices to keep financial records in such a way as to provide for a complete audit if deemed necessary. The Treasurer shall provide quarterly financial updates to the Board of Directors. The Treasurer disperses funds for expenses authorized by the President. The Treasurer shall further have the authority, on his/her own motion, to disburse funds in the

usual and normal course of business up to \$150. The Treasurer may prepare an annual budget. The Board of Directors can approve this annual budget and allow the Treasurer to make payments in the budget without further approval.

ARTICLE III: Board of Directors

GENERAL POWERS

The business and affairs of NCABANA shall be managed by its Board of Directors, with the exception of specific powers assigned to the Executive Committee.

NUMBER, TENURE, DUTIES AND QUALIFICATIONS

The Board of Directors shall consist of the Executive Committee and members representing local area groups. Local area groups should nominate their representative to serve on the board for a period of two years. Nominees to the board will be reviewed and accepted by the Executive Committee.

An individual may be removed from the Board by a 2/3 majority vote from the Board of Directors.

In addition, the Executive Committee may appoint ex-officio and/or advisory members to the Board of Directors. These appointed members shall have no vote.

Board members must be a member in good standing and a resident of North Carolina.

Board members are expected to attend all Board Meetings and act in the best interest of the local groups they represent. If a board member misses more than two consecutive meetings, without a prior excuse or sending an appropriate proxy, they may be excused from the Board following the proper 2/3 majority voting process.

MEETINGS

ROBERT'S RULES OF ORDER shall govern the conduct of all meetings. All members of the Board are expected to be familiar with the proper use of these rules. **(See note at end of article.)*

An annual meeting of the Board of Directors shall be held. Special meetings of the Board of Directors may be called by or at the request of the President. Notice for meetings of the Board of Directors shall be given at least one week before the time fixed for the meeting by word of mouth, telephone, or written notice to each member of the Board of

Directors. A Board of Director member may waive notice of any meeting.

A 2/3 majority of the Board of Directors shall constitute a quorum. The act of the quorum shall be the act of the Board of Directors. If less than quorum is present, the meeting is adjourned.

The Board of Directors shall serve without salary.

The travel expenses and other expenses incurred by the Board of Directors acting in their official capacity must be approved by a majority vote by the Board of Directors.

Any action required by law to be taken by the Directors, may be taken without a meeting at the discretion of the President.

ARTICLE IV: Fiscal Policy

FISCAL YEAR

The fiscal year of NCABANA shall be from January 1st to December 31st of the same year.

DISBURSEMENT

No part of the net earnings of NCABANA shall inure to the benefit of, or be distributable to its members, trustees, officers, or other private persons, except that NCABANA shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in the object and purpose clause hereof. No substantial part of the activities of NCABANA shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and NCABANA shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of any candidate for public office. Notwithstanding any other provision of this document, NCABANA shall not carry on any other activities not permitted to be carried on (a) by an organization exempted from federal income tax under section 501(c)(3) of the Internal Revenue Code, or corresponding section of any future federal tax code, or (b) by an organization, contributions to which are deductible under section 170(c)(2) of the Internal Revenue Code, or corresponding section of any future federal tax code.

DISSOLUTION

Upon dissolution of NCABANA the assets shall be distributed for one or more exempt purposes within the meaning of section 501(c)(3) of the Internal Revenue Code, or the corresponding section of any future federal tax code, or shall be distributed to the federal government, or to a state or local government. Any such assets not so disposed of shall be disposed of by a court of competent jurisdiction of the county in which the principal office of NCABANA is then located, exclusively for such purposes or to such organization or organizations, as said court shall determine which are organized and operated exclusively for such purposes.

ARTICLE V: Membership

To be eligible for membership in NCABANA the applicant shall be eighteen years of age, of good character and shall express an interest in Blacksmithing and supporting the objectives of NCABANA. Persons under the age of eighteen years of age may become a member of NCABANA when sponsored by an active member. They must be accompanied by a parent/guardian to the meetings. Membership eligibility shall be maintained only if annual dues are paid in a timely fashion.

Members who pay their dues up to 5 months late will keep their original membership date after six months late their membership will start over.

Annual membership dues shall be set by the Board of Directors.

In the event the conduct of a member becomes unsafe or obnoxious to the extent that their further presence is undesirable, it shall be the duty of the Elected Officials to inform the member of the conduct objected to, and to notify the member that they stand to be expelled from NCABANA. Obnoxious conduct shall not be charged on mere whim or on personal taste or bias; but on conduct which by common standards of courtesy and decency can be considered outrageous. The decision to expel a member under this article shall require unanimous agreement of all members of the Board of Directors.

Any person who has contributed to the advancement of blacksmithing and has given excessively of his/her time and talents to the advancement of blacksmithing in NCABANA may be made an Honorary Life Member by a unanimous vote of the Board of Directors. Honorary Life Members shall be

entitled to all privileges as a member, but is exempt from payment of dues.

ARTICLE VI Local and Student Groups

Local Groups would operate so that members may learn and teach within a region of North Carolina. Any group of NCABANA members may ask the Board of Directors to establish them as a Local Group. The Board of Directors will then review the request and act on the establishment of the group. Local Groups are allowed to nominate their representative to the board once they have maintained an attendance of at least six chapter members for a period of six months.

Student Groups are intended to be formed so that younger people can have an opportunity learn about blacksmithing. Any group of students may ask the Board of Directors to establish a Student Group on their behalf. Each Student Group will have sponsor. The sponsor is required to be member in good standing of NCABANA and will represent the student group on the Board of Directors. Student members will be welcomed and encouraged to attend NCABANA meetings. Individuals in Student Groups will not receive their own copy of the newsletter by mail and have no voting privileges. Student Groups will receive two copies of the printed newsletter, one for the club to be shared and one for school library.

Local and Student Groups under the NCABANA organization and must adhere to all NCABANA By-Laws. Local and Student Groups will allow any NCABANA member to attend their meetings and may invite non-members for recruitment as potential members. Meeting schedules will be submitted and published by NCABANA. Local and Student Groups should maintain a list of their members and are expected to provide regular reports to NCABANA for publication.

ARTICLE VII: CONFLICT OF INTEREST/EQUAL OPPORTUNITY

The members of the Board of Directors and employees of the NCABANA shall avoid conflicts of interest and any conduct which may suggest the appearance of impropriety in financial disbursement. If a potential conflict of interest arises, the Board

member or employee shall not vote on nor participate in the solicitation, negotiation, formation, award, arbitration, modification, or settlement of any contract or grant involving any funds or any dispute arising under such contract or grant when the Board member or management employee stands to benefit, either directly or indirectly, from such contract or grant. All Board members and employees shall be informed of this policy.

NCABANA strictly prohibits discrimination in participation, educational programs, and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference.

Any member found by the Board of Directors to be in violation of Article VII will be immediately dismissed from the organization.

ARTICLE VIII: REVISION/AMENDMENTS TO THE BY-LAWS

The NCABANA By-Laws will be reviewed at least every 5 years and revised as needed.

These by-laws may be altered, amended, revised, or repealed and new by-laws may be adopted by approval of all members of the Board of Directors. This may be done at any regular meeting of the Board of Directors.

REVISION HISTORY

The NORTH CAROLINA CHAPTER OF ARTIST BLACKSMITH'S ASSOCIATION OF NORTH AMERICA By-Laws are hereby restated and amended by way of resolution. All former By-Laws are hereby rescinded in their entirety. *** (See note below.)*

**Robert's Rules of Order are not included in part or whole in this article to conserve space. The full list of rules are available online at: www.referencerobertsrules.org.*

***Previous revision lists are also not included in this article to conserve space.*

Revised Scholarship Rules & Application Form

In line with publishing the revised by-laws, the NCABANA Board is also including an article with the revised scholarship rules and new application form. Please review all the rules before applying and send any applications to Vice President Garret Dunn (contact info on Page 2).

NORTH CAROLINA ABANA SCHOLARSHIP FUND

Rules and Procedures

Section I: Name

The Name of the Scholarship Fund will be the W. Dean Taylor Memorial Scholarship Fund. W. Dean Taylor was the founding father of NCABANA. He was an undertaker by trade but was passionate about blacksmithing. He and a few others met in the Winston Salem area and talked about forming a group, hence NCABANA was started. Dean was in his shop in 1985 when he had a massive heart attack and dropped dead. This scholarship was established in his memory.

Section II: Income

Scholarship Funds may be obtained from donations, raffles, fundraisers, Iron in the Hat drawings and auctions held at any NCABANA meetings

Section III: Types of Scholarships

There will be three types of scholarships available. The Board of Directors will decide on how many scholarships can be given each year based on available funds.

The Class Scholarship will be awarded to provide partial or full financial support to attend a class offered at a recognized institution. Level of support will be determined by the proposed course and financial need. Typically, amounts up to \$1000 for a week long class would be appropriate.

The Mentor Scholarship will be awarded to provide support for a lesson outside of a school. For example, private/individual hands-on forging lesson. The amount of support will be determined by the proposed lesson and financial need. Typically amounts will be up to \$100 for a day long lesson.

The Student Supplemental Scholarship is to support current enrolment in a Blacksmith training program. Typically amounts will be up to \$250 for a semester of training. This Scholarship will require recommendation from a faculty member of the institution being attended in addition to other application requirements.

Section IV: Eligibility

Any member may apply for a scholarship after one full year of membership. For the Student Supplemental Scholarship the student must have attended the program for one semester. Scholarship recipients will not be eligible for another scholarship for the next three years.

Section V: Expenses

Scholarship Funds may be used to cover tuition, materials, room and board at an established teaching facility. Other expenses are the responsibility of the recipient. Funds will not be used to attend conferences or similar events. Funds will be paid by the Treasurer directly to the provider. In the event that the course or workshop is cancelled, the recipient is allowed to pick another course.

Section VI: Obligations for Recipients

Scholarship recipients agree to the following obligations upon completion of the course, workshop or lesson.

1. Submit a written report, with photos, for publication in the newsletter.
2. Demonstrate a technique that was learned at a NCABANA event/meeting
3. Donate a quality hand forged object to the NCABANA.

These obligations must be completed within 6 months of completing the course, workshop or lesson. The recipient is further expected to fully attend and actively participate in the course, workshop or lesson. In the unlikely event that these obligations are not met NCABANA will expect the Recipient to pay back the amount awarded.

Section VII Application

Applicants are responsible for obtaining information about available courses and workshops. Applicants for a scholarship should submit a written statement of purpose including an indication of what course they intend to take. Applications may be submitted to any Board Member at any time. The Board Member receiving the application will forward it (via mail or e-mail) to the scholarship committee for evaluation. Applicants are advised to submit their application at least 6 months in advance of their class.

Section VIII Criteria for Selection

Applicants should show serious interest in learning blacksmith skills. In reviewing applications, the Board will consider, but is not limited to, the following factors:

1. The applicant must demonstrate a commitment and serious interest in blacksmithing.

For example applicants should describe their previous work, activity and achievement within NCABANA and/or other groups.

2. That the proposed class/lesson is considered to be within the blacksmith craft or a closely related craft.
3. That there is some financial assistance needed.

Section IX Selection, Timing and Award Notification

Scholarship recipients will be chosen by the Board of Directors. Scholarships will be awarded by a 2/3 majority voting in favor. The Board will review and act on the application quarterly. The recipient will be notified immediately by the Treasurer of the chapter. The recipient will be announced in the next issue of the Hot Iron Sparkle Newsletter.

Board members who wish to apply for a scholarship will not participate in the selection decision.

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Dean Taylor Memorial Scholarship Application Form

Name

Address

Phone

E-mail

Member Since (date)

Scholarship Type: (circle one) Class Mentor Student Supplemental

Requested Amount

Class Date(s) Scholarship Obligations Due

1. Describe your blacksmithing experience, how many years, classes taken, jobs, kind of work you do, how many hours you forge in an average week or month.

2. Goals for your blacksmithing career, what you wish to do as a blacksmith.

3. Describe your participation in the blacksmithing community: teaching, demonstrating, craft shows, writing articles, belonging to and attending local groups, attending conferences, etc.

4. Describe the course and why you need a scholarship to attend.

5. Do you sell blacksmithing items you make? What type items? How do you sell?

6. Include at least 3 photos of some of your work.

Signature

Date

Iron Concept: King of the Craftsman

Article by Andy Phillips



This series is named in honor of a long gone blacksmith's shop in East Bend, NC. Iron Concepts was one of the first large blacksmith shops I had ever seen and to this day serves and an inspiration to me. I find myself still referencing what I learned there at NCABANA meetings years ago. It still holds a special place in my heart, hence an iron concept.

King of the craftsman? There may have been a time but I don't know if that's true anymore.

It is undeniable that in the last few years there has been a great resurgence in tool making. While there are many who can make a hammer or a pair of tongs, now I find when I ask why they would make them that way would answer with much more than a simple shoulder shrug.

This is undoubtable in my mind due to the growing presence of the knowledge relating to our trade on the internet and its refinement and constant regurgitation of that knowledge. But alas that is not the topic of this article, rather one we will hold for a later time and place.

However, I would rather talk about who these craftsmen are and what has happened, or is happening to their kind.

Craftsmanship is, of course, not dead and our trade certainly isn't either. The works produced by the hands of man are among some of the most refined and advanced ever. The capability of a single skilled craftsmen, who works in either traditional or contemporary mediums, has grown more powerful and more efficient than ever before.

So what have we lost and what may we have gained and where does the blacksmith fit in all of this? It is because the blacksmith still has a place in world full of cookie cutter ideas, even if there are a vast number of cookie cutters. I think that place even surpasses the idea of the story and life of a handmade thing and the character that made it.

Over the next few iron concept articles, I would like to explore the following subjects:

- The current state of our trade, how many people forge iron, as well as what lays on the periphery of the scope of artistic blacksmithing and blacksmithing in general both for the hobbyist and the professional.
- Asking why we would forge anything at all and in that the methods of design that are unique to our trade.
- What is the Maker Movement, who are the real craftsmen, and where a thousand years of forging a tool chain has lead us to?

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73 Penniston Pvt. Drive
Somerville, AL 35670-7013

Includes postage to US and Canadian addresses. Other countries e-mail clay@tirehammer.com for price. **256-558-3658**.

Tire Hammers for sale contact me for current price.

Beverly Shears Sharpened

\$41 includes return shipping in US. Remove blades and ship to address above. Extra cost for deep nicks or blades sharpened at wrong angles.

CanIron X Announcement

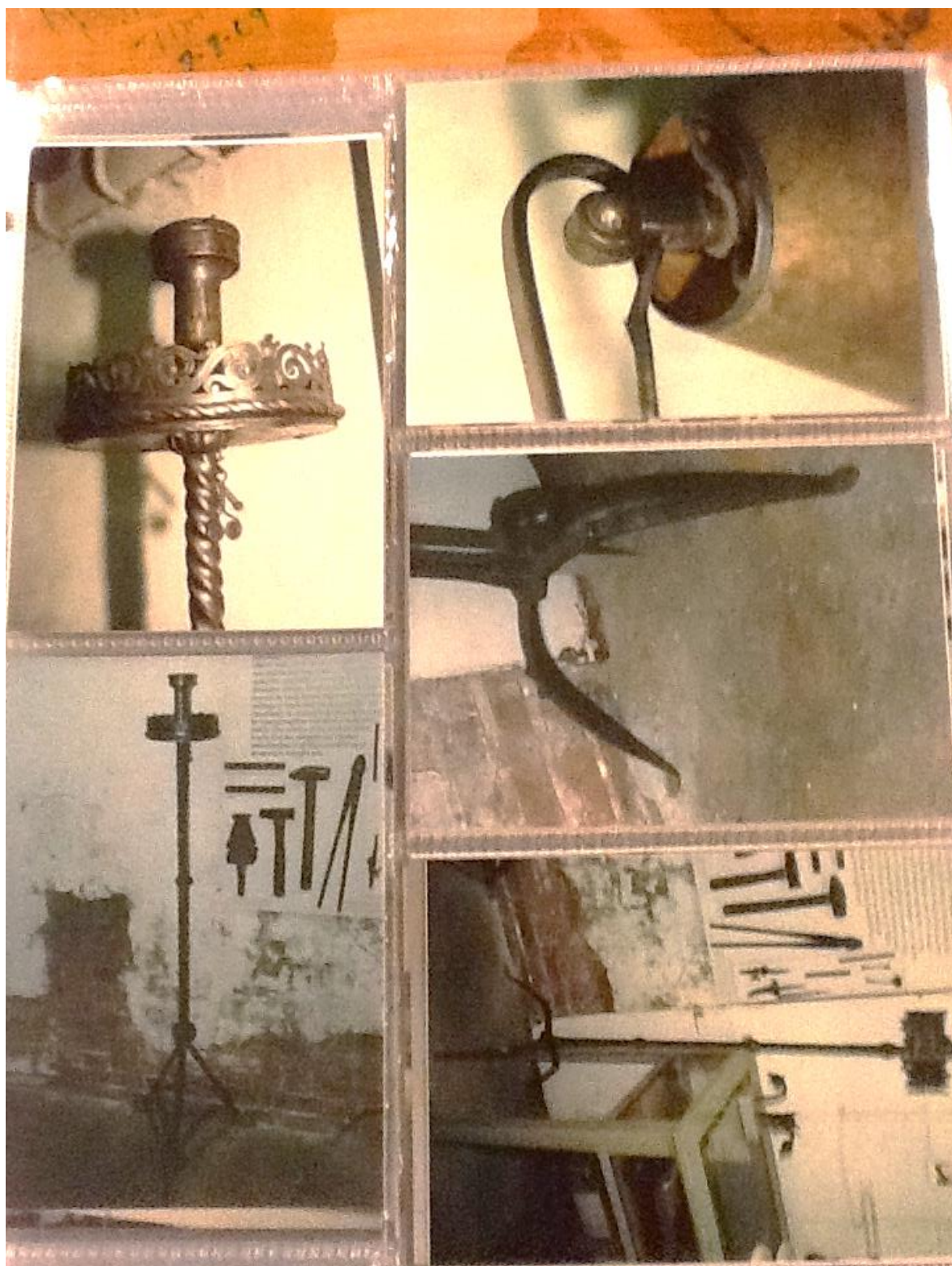
Canada's national blacksmithing festival and conference will be from July 2nd - July 5th, 2015 at Baddeck, Nova Scotia. Featured demonstrators include Albert Paley, Mark Aspery, Uri Hofi, Lorelei Sims, Zeevik Gottlieb, and Ian Hope-Simpson. In addition to the blacksmithing demonstrations, there will be classes & lectures, vendor's market, art gallery, youth demos, local food & drink, entertainment, and more! Tickets are available online at www.canironx.ca

From the Shop of Samuel Yellin

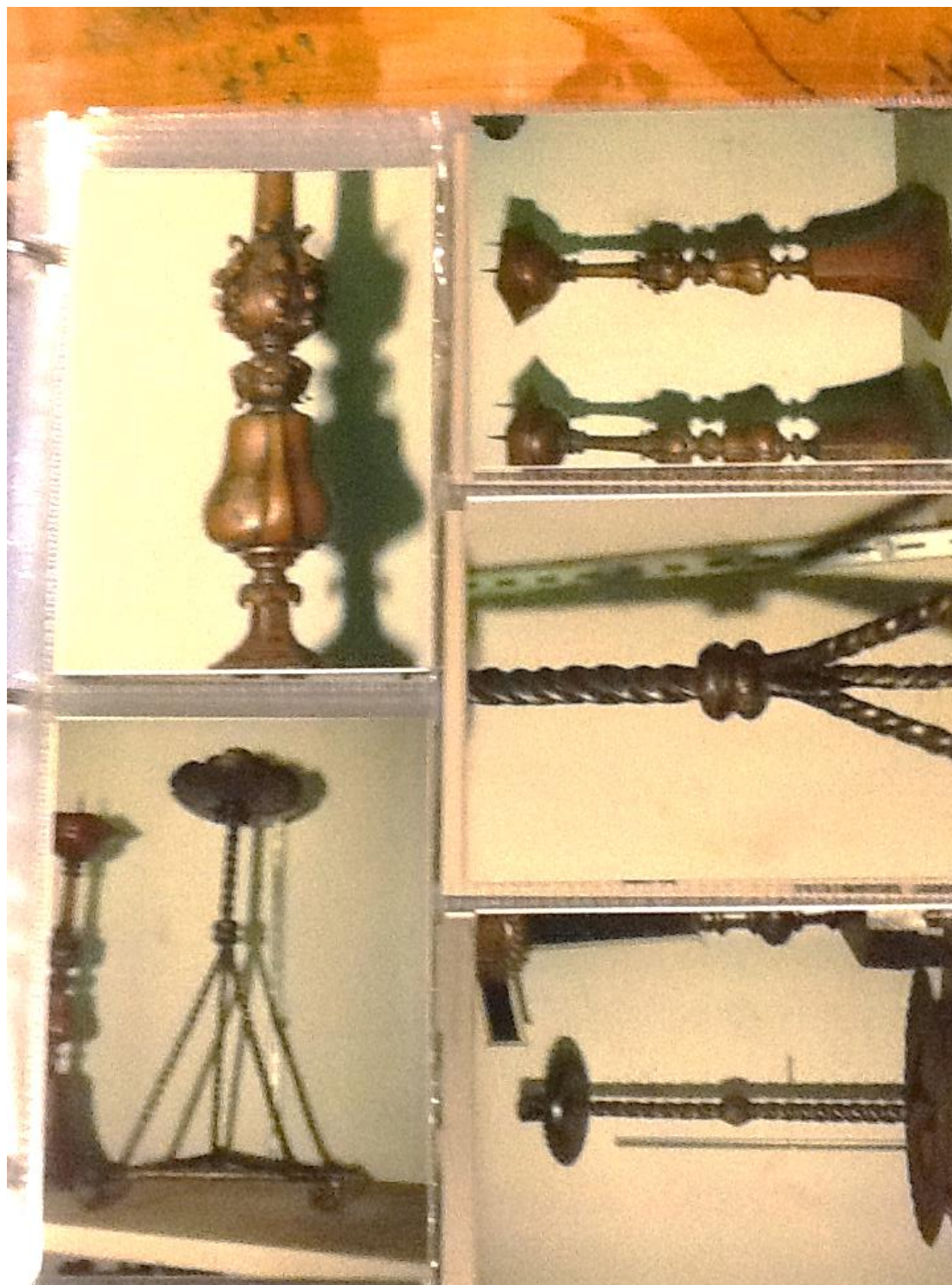
Article by Doug Wilson, Photos provided by Clay Spencer

Recently, I received a CD of images from Clay Spencer. On that CD, were over 2000 photos of works from Samuel Yellin's shop. These had been taken in the early 1970s by Jeff Graves who was apparently working for a summer with George Dixon in the last days of the Samuel Yellin Metalworks shop. I will be sharing these photos in the coming issues of THE HOT IRON SPARKLE. The quality of the photos is not always the best. However, they are in many cases the only available documentation of Samuel Yellin pieces.





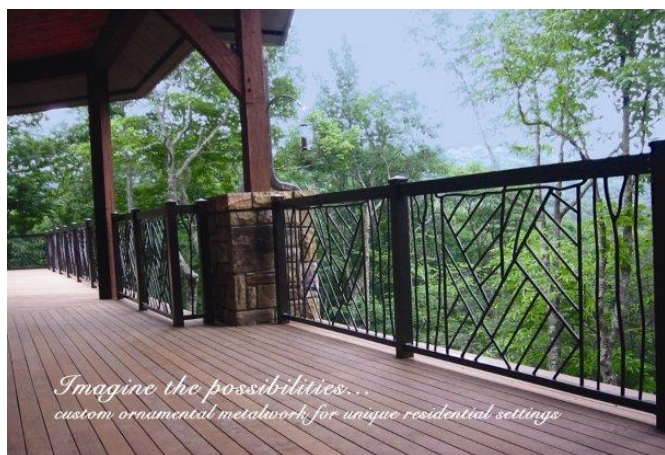




Quarter Corner

Metal of the Quarter: 5052 Aluminum

The metal for the quarter is 5052 Aluminum. I choose an aluminum alloy for this quarter for those who might have an interest after watching or reading about Lucas's demonstration from the first quarter NCABANA meeting. Imagine being able to make beautiful railings and install them all by yourself because they are so lightweight. This is what aluminum brings to the table.



This 200' railing by Blue Mountain Metalworks was built with aluminum pickets to make installation a breeze. Powder-coated brown for the finished product, an organic feel was created even with aluminum.

Now let's get into the specifics of 5052 Aluminum. As an alloyed metal, 5052 Al contains mostly recycled aluminum but also magnesium, chromium, copper, iron, manganese, silicon, and zinc. With less than 0.4% iron, you don't have to worry about rust or scale while forging! But back to the recycled part for a minute. Did you know that nearly 75% of all aluminum ever produced since 1888 is still in use today? Recycled aluminum uses 95% less energy to be produced than making new aluminum. It also uses 95% less greenhouse gases during production. For the sake of metalsmiths everywhere, please consider recycling that aluminum can instead of throwing it in the trash.

5052 Al is the chosen aluminum alloy when you are looking for strength, an attractive finish, and anodizing. It can elongate up to 25% of its original form before fracturing. 5052 Al's typical tensile yield strength is around 13,000psi with its ultimate tensile strength closer to 29,000psi. Compare this to ordinary mild steel with a typical tensile strength of 36,000psi and an ultimate tensile strength of almost 80,000psi. Doesn't sound too awesome when compared to mild steel but what about when we compare it to pine wood's ultimate tensile strength of only 5,800psi? Note I used wood's ultimate for comparison. Now how great is aluminum?

Time for the fun part. To forge 5052 Al, try a temperature of around 600-900°F. Please pay close attention that this is significantly less than the forging temperature of almost all steel. To be more precise, the 600-750°F range is more preferable for hand hammering versus the 750-900°F range is better for power hammer work and using a press.



Hand-forged aluminum necklace.

Railings are not the only thing you can forge aluminum into. With enough practice, anything that can be made out of steel can be made out of aluminum as well. Just make sure to take into account the variation in strength, which will create a variation in the thickness of material chosen for any specific project.

Tool of the Quarter: Bending Wrench

The tool for this quarter is the bending wrench. That is the term I learned for this tool but you might know it as a scrolling wrench or twisting wrench or some variation of those words. Let's start with my favorite version (pictured below):



That is the best picture I could get but for those of you with not-perfect eyesight, pictured above is an adjustable wrench with a scrap piece of stock welded to the head of the wrench. Now I think everyone reading knows what tool I'm talking about. One of the first fancy things beginners learn is how to do a simple twist and most use some variation of this tool. Here is another example of a bending wrench:



Now that we are all on the same page about the tool I'm referencing, let's talk about what it can do. Number one thing is a twist. Usually the blacksmith will clamp the piece of work into a vice and

use the bending wrench to rotate the hot metal into the desired effect. Check out the different twist styles pictured below:



Another use for a bending wrench is forcing a piece of metal to conform to a jig, especially if the jig is a tight scroll. If you are concerned about hammer marks on the finished product, it might be better to hammer the bending wrench with the jig in the vice and the project wrapped partially around it. The real question is whether your project is more valuable to you or the bending wrench.



Anvil Surfing Pic of the Quarter

As promised, here is a little bit of fun to end this issue. This picture comes via Paul Beisler out of Washington, DC. Paul is one of our blacksmiths featured in this issue's photo gallery so make sure to check out his real work. With springtime in full swing, I thought a little humor might be appreciated.

Thank you for all your submissions and please keep them coming. Now enjoy!



Calendar for 2 Quarters

June 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
	1	2 **	3	4	5	6 +
7	8	9 *	10	11	12	13
14 *	15	16	17	18	19	20 *
21	22	23	24	25	26	27 +
28	29	30				

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

2	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
2	Brasstown Blacksmiths 5pm <i>Brasstown, NC</i>
6	Peter Ross's Shop 9am NCABANA 2 nd Q Extra Meeting <i>Siler City, NC</i>
9	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
14	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
20	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
27	Dixie Classic Fairgrounds 9am NCABANA 2 nd Q Meeting <i>Winston Salem, NC</i>

July 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
			1	2 ^	3 ^	4 ^
5 ^	6	7 *	8	9	10	11
12 *	13	14 *	15	16	17	18 *
19	20	21	22	23	24	25
26	27	28	29	30	31	

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

2-5	CanIRON X Conference <i>Nova Scotia, Canada</i>
7	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
12	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
14	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
18	Triad Blacksmiths 9am <i>Winston Salem, NC</i>

August 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
						1 *
2	3	4 **	5	6	7	8
9 *	10	11 *	12	13	14	15
16	17	18	19	20	21	22 *
23/ 30	24/ 31	25	26	27	28	29

1	Triangle Blacksmiths <i>Raleigh-Durham, NC</i>
4	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
4	Brasstown Blacksmiths 5pm <i>Brasstown, NC</i>
9	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
11	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
22	Triad Blacksmiths 9am <i>Winston Salem, NC</i>

September 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
		1 *	2	3	4	5
6	7	8 *	9	10	11	12 +
13 *	14	15	16	17	18	19 *
20	21	22	23	24	25 ^	26 ^
27 ^	28	29	30			

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

1	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
8	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
12	Island Farm 9am NCABANA 3 rd Q Meeting <i>Manteo, NC</i>
13	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
19	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
25-27	Southern Ohio Forge & Anvil Quad-state <i>Troy, OH</i>

October 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
				1	2 ^	3 ^*
4 ^	5 ^	6 ^*	7 ^	8 ^	9 ^	10 ^
11 ^*	12	13 *	14	15 ^	16 ^	17 ^*
18 ^	19 ^	20 ^	21 ^	22 ^	23 ^	24 ^
25 ^	26	27	28	29	30	31

* Local Chapter Meeting
 + Statewide Meeting
 ^ Special Event

2 - 11	Dixie Classic Fair <i>Winston Salem, NC</i>
3	Triangle Blacksmiths <i>Raleigh-Durham, NC</i>
6	Brasstown Blacksmiths 5pm <i>Brasstown, NC</i>
11	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
13	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
15-25	NC State Fair <i>Raleigh, NC</i>
17	Triad Blacksmiths 9am <i>Winston Salem, NC</i>

November 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
1	2	3 *	4	5	6 +	7 +
8 *	9	10 *	11	12	13	14
15	16	17	18	19	20	21 *
22	23 ^	24 ^	25 ^	26	27	28
29	30					

3	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
6-7	John C. Campbell Folk School NCABANA 4 th Q Extra Meeting <i>Brasstown, NC</i>
8	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
10	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
21	Triad Blacksmiths 9am <i>Winston Salem, NC</i>
23-25	Christmas Gift Making Workshop <i>Winston Salem, NC</i>

December 2015						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
		1 **	2	3	4	5 +
6	7	8 *	9	10	11	12
13 *	14	15	16	17	18	19 *
20	21	22	23	24	25	26
27	28	29	30			

- * Local Chapter Meeting
- + Statewide Meeting
- ^ Special Event

1	Triad Blacksmiths 6:30pm <i>Winston Salem, NC</i>
1	Brasstown Blacksmiths 5pm <i>Brasstown, NC</i>
5	Roger Barbour's Shop NCABANA 4 th Q Meeting <i>Clayton, NC</i>
8	Wilkes Teaching Forge 7pm <i>Millers Creek, NC</i>
13	Southern Foothills Blacksmiths <i>Mooresville, NC</i>
19	Triad Blacksmiths 9am <i>Winston Salem, NC</i>

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2nd Quarter Extra Meeting at Peter Ross's Shop

Saturday, June 6th, 2015

Starts at 9am with lunch at noon

2232 White Smith Road

Siler City, NC

2nd Quarter Meeting at Triad Blacksmiths

Saturday, June 27th, 2015

Starts at 9am with lunch at noon

Dixie Classic Fairgrounds

Winston Salem, NC

3rd Quarter Meeting at Island Farm

Saturday, September 12th, 2015

Starts at 9am with lunch at noon

Island Farm

Manteo, NC

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Local Group Meetings

Triad Area Blacksmiths (Winston-Salem, NC)

Marshall Swaringen

marshall@swaringen.com (336) 998-7827

1st Tuesday at 6:30PM for demos

3rd Saturday at 9AM for business and all day forging
Dixie Fairgrounds, Winston Salem, NC

Southern Foothills Blacksmiths (Mooresville, NC)

Steve Barringer

steve@powerhammerschool.com (704) 660-1560

2nd Sunday each month

Triangle Blacksmith Guild (Raleigh - Durham, NC)

Randy Stoltz

rhstoltz@gmail.com (919) 481-9263

1st Saturday in even # months at various locations

Brasstown Blacksmiths (Brasstown, NC)

Paul Garrett

pgarrett286@gmail.com (704) 604-1777

1st Tuesday in even # months; 5 to 8 PM

Wilkes Teaching Forge (WTF) (Millers Creek, NC)

Lyle Wheeler

ncchairmaker@gmail.com (336) 838-2284

2nd Tuesday of each month, 7:00 PM

Blue Ridge Student Blacksmith Guild (Flat Rock, NC)

John Matthews

john.knox.matthews@gmail.com (828) 645-2109

You are welcomed to attend any of the local group meetings. Please contact the host to confirm date, time and location.

NC ABANA Meetings

2nd Quarter 2015 Extra – June 6

Peter Ross's Shop

Silk Hope, NC

2nd Quarter 2015 – June 27

Dixie Classic Fairgrounds

Winston Salem, NC

3rd Quarter 2015 – September 12

Island Farm

Manteo, NC

4th Quarter 2015 Extra – November 6-7

John C. Campbell Folk School

Brasstown, NC

4th Quarter 2015 – December 5

Roger Barbour's Shop

Clayton, NC

Other Events

CanIRON X

Nova Scotia, Canada

July 2nd-5th, 2015

Southern Ohio Forge & Anvil Quadstate

Troy, OH

September 25th-27th, 2015

Dixie Classic Fair

Winston Salem, NC

October 2nd-11th, 2015

NC State Fair

Raleigh, NC

October 15th -25th, 2015

For the most current meeting and event information go to the NC ABANA website,

ncabana.org

North Carolina Artist-Blacksmith's Association of North America



THE HOT IRON SPARKLE
Jim Kennady, Treasurer
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Creedmoor, NC 27522-9246

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June 27th, 2015
2nd Q NCABANA Meeting
Dixie Classic Fairgrounds