

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 168 May 2014



*The demonstrators at our March demonstration
Mo Hamburger, Len Ledet, Todd Howes, and Peter Sevin*

President's Message:

What Flips Your Switch ?

Our recent Demo at Art Iron Works (aka the blacksmith's zoo) was a record breaking event. Not only was the attendance at an all time high, but the quantity and quality of items for Iron in the Hat was amazing. Literally, there was something there for everyone.

We had some of the old timers who were there to renew old friendships and swap stories. There were demonstrations of new technology as well as activities featuring traditional blacksmithing tools and techniques.

All of this raises the question: What turns YOU on when it comes to our events? In order to keep this association and the craft alive we need to know what it takes to make you show up for our events. Is it the demonstrator, the location, the subject, or the opportunity to hang out with fellow smiths?

How do we make the events relevant for you? Expressing your opinion is easy. Use the "contact us" tab on the web site and forward your comment and preferences.

My personal Email is Dougkluender@msn.com so please send me your ideas. We really want to know what flips your switch.

And when you do please let us know what YOU are willing to do to make it happen.

Safe and productive forging.

Doug Kluender

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**Demonstration: Saturday and Sunday
May 10 and 11, 2014
Barry Denton's Bar-U-Bar Ranch**

Skull Valley, AZ

Demonstrator: John McClellan



Mortise and tenon joints with fly press and the treadle hammer.
Collars with the fly press.
Punched holes under the treadle hammer.
Some handwork with scrolls and square corners and such.

Registration opens at 8:30 AM. the demo starts at 9:00 AM
Registration fee: \$15 for members, \$20 for non-members

**Lunch on Saturday by the Bar-U-Bar. Tickets are \$8.00 each. Email Terry Porter
(trp555@prodigy.net) with the number of tickets you want by May 5. Payment will be collected on
Saturday.

- Please, no dogs.
- Camping: Bring your tent or RV. Come Friday and stay until Sunday.
If fire danger is HIGH, there will be no open fires.
- Saturday evening BBQ. Bring your own meat to grill and a dish to share.
Grills and charcoal will be provided. There will be entertainment.
- There will be a skewer making contest Saturday afternoon. Forges and tools? Bring 'em if ya got 'em.
- Tailgaters are welcome.
- Bring things for Iron-In-the-Hat and Show and Tell.

Remember Iron in the Hat

Thanks to all of you who have participated in Iron in the Hat. By purchasing tickets and donating items, you help support AABA events and projects. Items for donation can be a tool, piece of art, something you don't need in your shop, a great book, t-shirt, hat ... something an AABA member would enjoy.

Directions to the Bar-U-Bar Ranch

Skull Valley, AZ

- I-17 to Cordes Junction exit
- West on state route 69 to Prescott
- In Prescott turn right on Sheldon
At the T, turn right on Montezuma, which becomes Whipple which becomes Iron Spring Rd.
- Take Iron Springs Rd. about 8 mi. to Conteras Rd.
- Take Conteras Rd. about 3 mi. to the T.
- At the T, turn right, go about one mile. The Bar-U-Bar is on the right.

As always, safety glasses are required.

John McLellan

I got started in blacksmithing at the age of 8 when I inherited a forge and anvil from my grandfather. I read all the old books I could find on the subject and built my fires with small pieces of oak since I didn't have access to coal. The high school I attended offered a course in horseshoeing which I took my junior and senior years. This was the first time I got to use a coal fire. Since I already had years of experience in the forge the course was pretty easy for me and I helped teach it my senior year.

I continued to teach the Farrier class while I was attending the local Junior College. My major was agriculture, but the college had a great metal shop so I took most of the metals classes.

In 1978 I joined the California Blacksmith Association. Finally, I could talk to others that were doing the same things and having the same problems. The conferences I went to were overwhelming but exhilarating. There was so much to see and learn. I quickly picked up many advanced techniques from the professionals in the group. I have served as a board member, Vice President and President of CBA. I ran numerous Spring Conferences, doing my first while I was still in college.

I Joined ABANA in 1980 to attend the Santa Cruz Conference. That was my first exposure to smiths from around the country, and the world. It really opened my eyes to the possibilities.

In 1986 I graduated from CSU Chico with a B.S. in Agriculture with an emphasis in Industrial Arts and Business. I drove back to Sacramento every weekend to shoe horses and do any jobs that had come into the shop. The horseshoeing was my major source of income throughout this period as the market for good ironwork in Northern California was non-existent. It really helps to have a trade that can provide a reliable cash flow when you're a student.

After I graduated from Chico I worked at Myers and Company, a custom ironwork shop in Basalt, Colorado and then went back to Sacramento to see if I could create a market for forged ironwork.

I started an educational exhibit at the California State Fair during the summer of 1987. This proved to be a great way to inform the public that forged metalwork was still being done and was available. Between the fairs, some articles in the local newspapers, and a TV story on the news, orders started coming in for everything from nice fireplace sets to large gates and railings. And most of the orders specified forged designs instead of just tubing and castings.

I've served on the board of CBA for many years, and also as vice president & president.

I Joined the ABANA Board in the fall of 2009 to fill a vacancy. I took on the Journeyman / Education program at that time and have helped to establish the National Education Curriculum.

March Demo Report

Our March demo was a real winner. We had a show similar to what we had at Pieh Tool in Camp Verde last May: several demonstrators at once. You could wander the midway and stop at whatever site caught your interest. Mo Hamburger was demonstrating small-scale forging. Len Ledet used a treddle hammer to demonstrate overlapped joints and tenons. He also demonstrated texturing with dies on his tire hammer. Todd Howes demonstrated slot punching and drifting holes. Peter Seven showed off his Little Giant hammer and his air hammer, but he concentrated on making belt buckles and other neat objects with his hydraulic press.



This is where we gathered on March 22.



The Blacksmiths' Zoo



Iron-in-the-Hat. This was the stuff at 9:00, and we got even more by 1:30.

March Demo Report (cont.)



Wade Smith brought one of his stainless steel flowers for Show and Tell.



Some of Ivan Hill's offerings for Show and Tell



Mo demonstrated small-scale forging





Len challenged his audience to tell him how he had made this rivet.



Len textured this rod using his tire hammer.



Peter (back to the camera) demonstrated hydraulic press work.



Samples of Peter's work

Testing Mystery Metals at the March Demonstration

Doug Kluender

We had the good fortune to have a demonstration of the latest equipment being used in the metal industry to identify unknown materials. One of our local steel vendors, who also operates a salvage business showed us an instrument that identifies the chemical content of unknown samples. The process is known as X-Ray Florescence (XRF).

He used an instrument that looked a ray gun to read contact samples of unknown metals. After a few moments the device provided a readout of the chemical composition. If the unknown material had a trade name or common designation that was also displayed. e.g. S-5, 4130, etc.

For best results it requires a clean and shiny sample. We used a belt grinder to prepare the samples. It may be possible that we contaminated some of the samples since the abrasive material we used was also used to prepare samples of several materials, but our results were very consistent. This instrument is capable of identifying the content of both ferrous and non-ferrous metals.

No, you can't get an app for that. The instrument costs about \$50K. According to the owner, Rich Auerbach, it paid for itself in about 3 months. He used it to sort some piles of unidentified scrap that turned out to be more valuable than what he thought it was. In another case he used it to identify 20,000 pounds of painted pipe that turned out to be bronze.

I must confess that I tried to run a few ringers by him during the demo. I provided samples that I thought were known materials. At least that was what I had paid for. The instrument correctly identified a samples of Inconel, 17-4 Stainless, 4130 and S-7. I was really disappointed when some of the Chrome Moly tube I purchased for my suspension components came back as mild steel DOM.

We did test a sample of Weatherford EL sucker rod. It contains the following: Fe 96.5, Cr 0.823, Mn 0.585, Ni 1.67. A Chevy truck torsion bar contained 98.1 Fe, .841 Mn, .776 Cr.

I plan to ask Rich to test more samples of some commonly used junkyard steels such as sucker rod, torsion bars, jack hammer bits and car springs.

Todd Howes



Rich Auerbach

Bill Callaway and the Phoenix Forge Retire

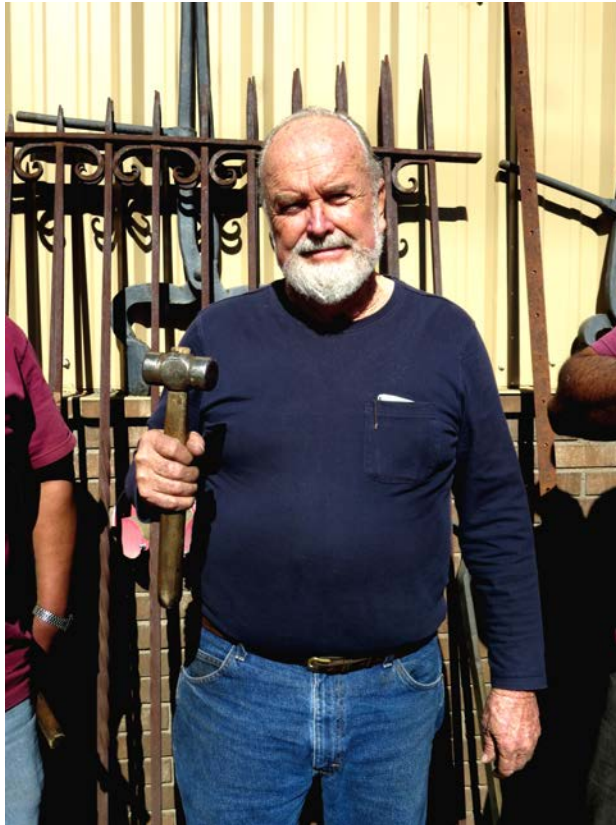
Len Ledet

On January 31, 2014, Bill and Martha Callaway had an open house for friends and fellow smiths to celebrate Bill's retirement and the closing of the Phoenix Forge. We all know and admire Bill, for all he has done for our Arizona Artist Blacksmith Association, ABANA, and local blacksmithing over the past 30 years. His name is on our annual AABA award, "The Bill Callaway Award", which is cherished by all who have been selected to receive it.

I met Bill in 1983 at the Tempe Art Fair where he was demonstrating and selling "hand forged, made in America" items. He was wearing his signature bandana (hair deprived) and had a crowd gathered around watching him forge red hot iron. It was a great show. Months later I took my first blacksmithing class with Bill and met Mo Hamburger who was also taking the class. Bill introduced us to AABA and ABANA and the forge.

In 1986 and 2000 Bill was Chairman of the ABANA Conferences which were held on the campus of Northern Arizona University. Both were the "BEST" conferences ever put on by ABANA. Many members of AABA were part of Bill's volunteer

team. All of us really enjoyed working with and for Bill. During these years Bill also traveled the country demonstrating for other local ABANA Blacksmith Clubs. He is a past president of our Club, he was a National Treasurer of ABANA, and he was the recipient of the prestigious Alex Bealer award in 2009.



In the late 70s Bill had retired from the Phoenix Fire Department and soon opened The Phoenix Forge with his long term partner Bob. The first Phoenix Forge was really in a seedy downtown location. I needed police protection any time I went to that shop for a visit. It was later moved to a better part of downtown and finally to its current location near the Diamondbacks baseball stadium. The shop has always been open for a visit and "blacksmith" talk.

The retirement lunch this January was great, with friends coming from Flagstaff, Prescott, Tucson and around Phoenix. Thanks Bill from all your friends and especially me for your past 30 year friendship. Time to retire now and help Martha mop the floors, dust the furniture, and wash the dinner dishes.



CALENDAR 2014

May 10-11	Demo	Bar-U-Bar Ranch	Skull Valley
June 8	Open Forge	Desert Rat Forge	Cave Creek
July 12	Demo	Pioneer History Museum	Flagstaff
July 13	Open Forge	Desert Rat Forge	Cave Creek
August 13-16	ABANA Conference	State Fairgrounds	Harrington, DE

2014 California Blacksmith Association (CBA) Spring Conference

Antique Gas and Steam Engine Museum
Vista CA.

April 24 thru 26

Contest, hands on instruction and projects! Gallery! Auction! Iron in the Hat! Midnight Madness! Tailgating! All your conference favorites and maybe a few more for good measure. Demonstrators of international stature: Peter Parkinson, Fred Crist, Gary Brown, James Austin. Peter Parkinson will lead a design workshop where a sculpture will be designed and built using YOUR forged elements. Everyone will be encouraged to participate. Come work on that skill we so rarely see demonstrated: DESIGN.

More information at www.cbavista2014.org

[I've left this in just in case this issue gets into some members' hands before the CBA Conference. If you haven't already got this on your calendar, you might want to do a short-notice road trip. - Ed.]

Pieh Tool Blacksmithing Classes

Beginning/Intermediate Classes with Gordon Williams

Schedule:

Apr. 11 - 13, 2014

May 23 - 25, 2014

\$455 for three days of classes at Pieh Tool in Campe Verde. For complete details call 928-554-0700 or browse to www.piehtool.com.

Welcome New Members

Stan Foster	Chandler, AZ
Kelly McKee	Mesa, AZ
Rashid Al-Rashid	Scottsdale, AZ
Tom Sanguigni	Snowflake, AZ
Raymond Aberle	Fargo, ND
Chuck Andrews	Vicksburg, MI
Mitchell T. Borders	Phoenix, AZ

Coal order

The AABA Coal Buy Preorder for 2014 is over. The coal will be delivered in mid-April. We will still have several tons available for purchase starting at \$25 for 50 lbs. Larger quantity pricing will be determined on a case by case basis. Please contact Michael Sobrado at dragonforge1@cox.net with your inquiries.

MCC Blacksmithing & Welding

The Mesa Community College blacksmithing program is one of the best deals around - over 60 hours of instruction for just under \$450 and that includes material and propane! Saturday (Jaime Escobedo instructor) and evening classes (Dan Jennings instructor) are available. Blacksmithing is WLD 103.

TIG, MIG, Arc, Gas, and Art classes are all available, as is certification in any of those welding methods at Mesa Community College, Southern and Dobson in Mesa.

Classes fill up early. Sign up by mid-April to ensure a place in the fall 2014 classes. For more info go to: www.mesacc.edu

If you try to register for any Welding Department classes on line, you might find all classes are closed (full). Contact Dan at danshammer@cox.net with the class number (time and days) of the class you'd like to take - I'll get an override number so you can sign up.

AABA Website: www.azblacksmiths.org

Open Forge: Tucson

Formal open forges in Tucson are suspended until cooler weather. They will probably start up again on the first Saturday of October. Check the September Anvil's Horn for more details.

If you are really itching for an open forge during the summer send email to Bill Ganoe (editor@azblacksmiths.org) to see if anything has been organized on short notice.

Open Forge: Desert Rat Forge

Paul Diefenderfer will host an open forge on the second Sunday of each month from 9 am to noon, followed by lunch (You gotta' buy your own.) at the world famous Big Earls Greasy Eats in Cave Creek. Desert Rat Forge is at: 40218 N. 78th St. Cave Creek. 602-509-1543 or dief@phoenixrockgym.com

No open forge in May. See you at the demo in Skull Valley.

Directions: From the center of Cave Creek (the 4-way stop at Cave Creek Rd & School House Rd.) head north on School House 1.5 miles to Highland Rd. (If you get to the 4-way stop at Fleming Springs you have gone a tad too far.) Turn right (east) on Highland. After about 1 mile the pavement ends. Keep going on the gravel road until the pavement starts up again. Turn right through the stone walls down a paved driveway. You are there!

If You Are Attending An Open Forge...

You might not be aware but this, but these events are not funded by the AABA. They are hosted by our members for all of our benefit. So if you participate in forging, welding, use shop materials, or accidentally damaged something. Please offer do donate to help out or help with the cost of replacing a item. Thank you! From all of your open forge hosts.

Gordon Williams Blacksmith School

Gordon Williams teaches the regular 3-day classes at the Pieh Tool shop in Camp Verde. He is also teaching short (4-hour) classes and intensive 6-day classes at his shop near Camp Verde. Check out the details at www.gwblacksmithschool.com

Wanted: Living History Demonstrators

The Tucson Presidio is recruiting volunteers to be living history demonstrators, especially blacksmiths, to expand their living history program. For more details, email newvolunteers@tucsonpresidio.com or contact Bill Ganoe.

Deadline: June 1

for the July issue of the Anvil's Horn. Send articles, pictures, etc. by email to: editor@azblacksmiths.org

or by regular mail to:
Bill Ganoe, PO Box 40233, Tucson, AZ 85717

AABA New Member and Membership Renewal Form

Name			
Address			
City	State	Zip	
Phone	Email		
Professional blacksmith	Hobbyist	Farrier	Blade smith
Your main blacksmithing interest			
Occupation or skill			
Please check one:			
Regular membership (\$30)			
Family membership (\$35)			

Mail to: Terry Porter
2310 E. Melrose St.
Gilbert, AZ 85297

Make Check Payable to AABA

Call to Artists

Botanical Blacksmiths Update

Plans for the third annual exhibit of outdoor ironwork at the Arboretum in Flagstaff are shaping up nicely. The dates for the show are July 2 through September 29 with the artist reception on Saturday, August 2. The reception will include a blacksmithing demonstration being organized by Denise Edwards. We are going to be the featured artists for the Arboretum's Summer Soiree. This is their major fundraising event and should bring some nice publicity to the exhibit.

Participation in the exhibit is open to any member of AABA. It is not a juried event but you do have to submit paperwork so we can plan the show. The deadline for entering is May 15. There is no cost to enter. The Arboretum takes a 30% commission on any sales and you have the opportunity to put smaller work in their gift shop in addition to the one to two outdoor pieces.

If you are interested in participating, contact Cathi Borthwick at flag_forge@earthlink.net or call 928-779-1791 and she can send you the forms and more details.

Also, remember that the Botanical Blacksmiths exhibit at Tohono Chul is still up through May 18 so check it out if you have a chance.



*Visitor Center at the Arboretum at Flagstaff
Botanical Blacksmiths, July 2013
Sales table for small items*

Review

Blacksmithing Videos Purchased Online

Eric G. Thing

Over the past 30 years, the PBS series "The Woodwright's Shop", hosted by Roy Underhill, has shown quite a number of segments featuring blacksmithing. Most of these have been filmed at the Colonial Williamsburg blacksmith shop in Williamsburg, Virginia.

I caught a number of these shows in the 80's and 90's when they were first broadcast; I even taped a few on my then cutting-edge VHS recorder. The tapes have deteriorated over the years, and I knew there were many more episodes that I did not record, so I was left sighing for someone to finally put Roy Underhill's series on DVD, or some other accessible media.

Well, it has finally happened. The online store, **www.shopwoodworking.com**, not only has many past seasons of the series available on DVD, but it also sells new videos by Peter Ross, one of the Williamsburg shop's past masters. Having viewed many of these videos, I thought I might give my own impressions of them.

(NOTE! You can view full half-hour episodes of the Woodwright's shop, including some blacksmithing ones, for free on the PBS website. You need a broadband connection that can handle video streaming, of course. The catch: the videos only go back a few seasons, and I don't know how long each season will remain available for viewing. For shows before about 2007, you need to find other media.)

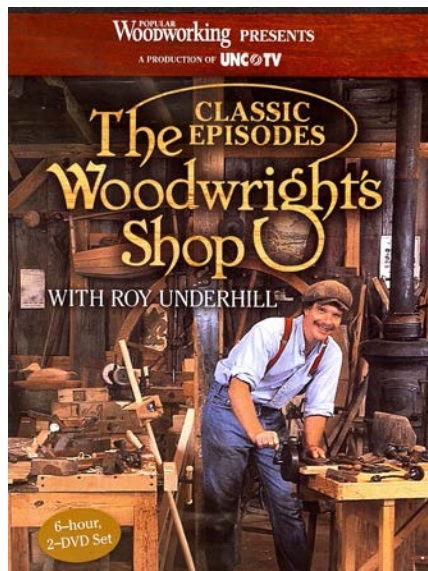
On Shop Woodworking, the Woodwright's shop is available in two media formats: Complete-season DVDs, and 1-episode downloads. Of course, being a commercial operation, everything on this site costs money.

In this article, I will cover the DVDs I've bought. The Woodwright DVDs are two-disk sets, each covering a whole season of the show. This usually means 13-14 episodes, about 7 per disk. They are not dirt cheap; I've paid \$29.99 for each set I've purchased (it's one of those deals where the "list" price is higher, but is always discounted for a special customer like you). The site shows a short description of each episode on a disk, so you know which ones contain metalworking content, and those that don't. The Peter Ross videos are a single hour, covering the making of one item, with only Ross as the host.

Why would I pay \$30 for a whole season, instead of a la carte selection of individual episode downloads? The main reason: I like the show, and the other episodes in a season set almost always have content I am interested in. Heck, I bought one disk with no ironworking at all, because Underhill did three episodes in New Mexico tracing the Hispanic colonial woodworking tradition. To me, 6-7 hours of content is worth \$30, even if most of it is working

wood. If my descriptions of the episodes pique your interest, and you don't want to pay for the disks, you could try a download of only one episode, if they have it -- I've never done it, so I don't know how their service works. The downloads are \$4.99 each.

Descriptions of individual disks and sets continue on the next page.



Review (cont.)

The Woodwright's Shop DVDs:

A few overall cautions: One, the video quality is a bit low for our expectations nowadays, especially in the earlier seasons. These shows were videotaped and then transcribed to disk, and none of them are in the high-definition format we are now used to. I don't find it much of a problem. Two, you have to get past Underhill as a host. He's pretty high-energy and loud. I don't mind him. In my opinion, he's a lot better than the shouting, gesticulating "expert" hosts they have on various History Channel segments today. Another: the smithing is all historical re-creation (mostly American Colonial). Underhill's thing is 18th-19th century crafts, so all the smithing is old-timey, with no modern processes such as using gas forges, arc-welding, plasma, etc. Yet another: If you get several episodes, you will notice repeated material: Underhill always asks how the bellows works, what flux is for, etc; he is doing an educational PBS series, so each episode has to stand on its own.

Descriptions, by season:

Season 6:

"Anderson's Forge" -- This may be Underhill's first taped visit to the Anderson shop in Colonial Williamsburg (the date is 1986, so we are approaching 30 years ago). It's a general sort of walkaround; they show nail-making, disassembling a musket and doing some maintenance on the parts; forging and punching a hinge, and talking about Anderson's business back in the day. I enjoyed it, but it was pretty general. (Bonus for the young guy messing up a couple of nails as he gave his rapid-fire narration: they kept bending and locking into his heading tools. He covered well.) **2 stars.**

"Tool Maker's Art" -- Peter Ross and a journeyman show how small hatchets were made. Ross also talks about finer toolmaking, including discussions of benchwork. Shows forging, wrapping, welding and steeling the hatchet blade. (I got the feeling that the journeyman may have been a bit irritated by Underhill, but he soldiered on. Ross and Underhill have made a bunch of shows together, and they seem to get along OK; Underhill zooms around, and Ross is super laid-back. They complement each other well.) **3 stars.**

Season 11:

"Blacksmith of Williamsburg" -- Ross and another journeyman demonstrate making two pieces of window shutter hardware: a hinge (strap-and-pintle type), and a shutter dog, for holding the shutter open. I liked the episode, but I took off a star because they did not show making the hinge pintle, just the leaf. The shutter dog was great, because Ross did all the work, and watching him working on the simplest pieces is a treat. (This is mixed with bitter envy, since he does in one heat what takes me 3 or 4, and the work is 10 times better, of course.) **2 stars.**

Season 14:

"The Williamsburg Blacksmiths" -- Journeyman, with Ross assisting, demonstrates the making of a drawknife. Shows welding steel to iron, lots of shaping. Hardening and tempering a finished blade. Burning on a wooden handle. Only one-half of a drawknife blade is shown being fully forged, due to time constraints, but I found that OK. (Bonus: Journeyman did not quite get the last half-inch of the steel-iron weld to stick, but he had no time to finish it in the 25 minutes he had to work. Sort of comforts me that even the experts can't do everything in one heat all the time.) I like this episode; it was one of the few I managed to tape back in the 90's, and I've watched it many times. **3 stars.**

Review (cont.)

Season 14 (cont.):

"Blacksmiths Forge Ahead" -- Ross doing a Suffolk door latch, solo. (Underhill watches, of course.) One of my favorites. The latch requires many individual operations: forging, punching, drifting, shaping in a swage, a little benchwork. Again, just watching Ross work is cool. **4 stars.**

Season 20:

"In the Blacksmith's Shop" -- It's at this point in the series (year 2000) that Ken Schwartz starts to co-host the blacksmithing segments with Peter Ross. (A few years later, Ross retired from the Anderson shop, and Schwartz became the master.) This episode is all right -- I like them all, really, so I'm biased -- but it is a bit repetitive of material in other segments. Welding up a binding hoop for a wagon wheel hub, steeling, hardening and tempering a chisel blade, talking about the 18th century blacksmithing business. Ross shows a spectacular finished piece: a mechanical spit turner that his shop made, complete with hand-cut gears. **2 stars.**

Season 21:

"Blacksmith's Hinges" -- They do a lot of hinges in the Williamsburg shop. This episode shows Schwartz making a cross-garnet door hinge (what we could call a T-hinge today). Forging, welding, punching. I took a star off, because they don't show the whole process of the hinge being made: Underhill and Ross spend half the episode at the bench showing and discussing hinge styles, and colonial-era locks. Very interesting, but hearing Schwartz pounding away in the background made me want to reach into the TV screen and move the camera to point at him! **2 stars.**

"Flintlock Gunsmith" -- Not blacksmithing per se, but pretty good. Overview of some bench work on 18th-Century firearms. What really nailed me: Wallace Gussler on camera in the episode, 32 years older than he was in the "Gunsmith of Williamsburg" film, produced back in 1969! (You see this a lot in the Williamsburg video canon: the same folks, getting grayer along with you, over the past third of a century. Is historical craft work on this level such a fulfilling profession that people stick to it for their entire lives?) **2 stars.**

Season 22:

"Shutter Dogs from the Blacksmith" -- Ross and Schwartz, doing a shutter dog. Not the super-simple one demonstrated back in Season 11, but a two-piece version that requires an interesting wrap-and-weld. Spoiler alert: How do you punch a two-inch long slot in a narrow bar? You don't. You draw out one end, wrap it and weld it to make a long, narrow eye, then form the eye to a rectangle. Some bench discussions of window hardware. I really like this episode, because it is almost a textbook lesson in making one piece of period hardware: While Schwartz is heating the work, Ross shows a series of test pieces on the bench illustrating every stage of the work to be done. I would call this 4 stars, but I took one off because of defects in the disks. The episode chapter selection does not work on my DVD player, so I have to use the skip button to get to episodes I want to see (this problem is on two of the disks I bought, by the way). Also -- bizarre fact -- the two disks are mislabeled: The "Episode 1-7" disk actually has episodes 8-13, and vice versa. Irritating. **3 stars.**

So, are the Woodwright DVDs for you? I like colonial-era crafts, and didn't mind the price tag, so I have been very pleased with them (despite the video defects on a couple). If you want to give them a try, my advice is to first get Season 14, which has two good blacksmithing episodes.

Review (cont.)

Peter Ross' Video Series:

Peter Ross retired from Colonial Williamsburg a few years back, but he has a shop in North Carolina, and he is still doing video segments, both for Underhill's show and for single DVDs that he publishes himself. I have two of Ross' DVDs.

"Forging a Compass" -- Running time 60 min, \$24.99. Ross makes a compass (we would now call them dividers) from 3/8" square bar stock. He goes through the whole process, forging and benchwork. Although the tool he makes is a repro of an 18th century version, his shop and tools are all modern: cast iron hearth with electric blower, London pattern anvil, even a short session with a Little Giant. Again, the best part of the piece is watching Ross work. He is very relaxed, unhurried, low key. He spends half the video on the benchwork, cleaning up the compass for precise fit and surface finish. **4 stars.**

"Forging a Custom Hinge" -- Running time 60 min (I think it is shorter than the jacket claims, but I haven't timed it), \$17.99. Ross in his new shop, forging a small leaf hinge for suitable colonial restoration work. Less meat to the subject matter than the compass video, but I'm still glad I got it. I especially liked his demonstration of forge welding 16 gauge sheet metal to make the hinge leaves; I seldom see forge welding of thin stock nowadays. **3 stars.**

He has recently done a third DVD, "Forging a Strking Knife", which I may get in future; but I am not in a hurry. I hope others will follow.



Open Forge in Tucson, 5 March 2014. Sam Rivera instructing Damien Sitts who is hammering on hot steel for the first time.

Members' Gallery



Andirons by Tidar Ozeri



Delaware State Fairgrounds in Harrington, Delaware

Demonstrators

We are working on a slate of demonstrations that will reflect the theme of the conference, and are in discussions with smiths from South America, the UK, and Europe, as well as the US, including the Colonial Williamsburg Smiths, and the Patient Order of Meticulous Metalsmiths. We are striving to have a variety of demonstrators covering a wide range of styles using tools from hand hammers to forging presses and power hammers; an iron smelt; and copper- and silversmiths. Our hope is that the only attendees we might not be able to please will be those that want to see everything! As demonstrator details are confirmed, their demonstrations will be posted on the ABANA website.

Teaching Tent

Mark Asprey and Darryl Nelson will be heading the Teaching Tent with an expanded format that will give more attendees the opportunity to participate in this well-received program.

Vendors and Tailgating

There will be indoor vendor spaces in air conditioned comfort with tables and chairs where attendees can take a break from the heat, make connections with other attendees, reminisce with old friends, and make

new ones. Outdoor vendors and tailgaters on an as available basis will be housed in a large pavillion. Tailgaters and outdoor vendors operating power hammers etc. will be on an adjacent parking lot.

Seminars

We will have a variety of seminars on blacksmithing related topics in rooms around the grounds.

Family Activities

We are planning to have Arts and Crafts projects available.

Iron In The Hat

What would a conference be without Iron in the Hat? 2014 ABANA Conference will once again be having the Iron-in-the-Hat fundraiser for our educational mission. We have secured two large items for the conference, a Clay Spencer Tire Hammer made and donated by Clay, and a BAM box made and donated by Pat McCarty. Please consider making a donation of quality, well-made tools to fill the box. Any additional tools received, after the BAM Box has been nicely filled, will go to the Iron-in-the-Hat daily drawing. Please consider applying your personal touchmark to donated tools as it will add special meaning to the new owners. Our Scholarship and Grant programs depend upon these funds raised during this event.

Auction

The 2014 ABANA Conference will close with an exciting Live Auction! Many of the projects made by the demonstrators and many of the Gallery works will be auctioned. The Auction benefits the educational purposes of ABANA. Saturday, from 6:30 p.m. until ?? Open to the public!

For up to date information and a registration form, go to the Web:

www.abana.org

Need a ride to the conference?

ABANA has set up a group on eRideShare.com to enable people to find or offer rides. Go to :

<http://abana2014.eridshare.com>.

You will need to create your own password protected account and then, to post a ride request or offer , or to respond to a ride request or offer, you will need the Group password. To obtain the password send an email to centraloffice@abana.org

Classifieds

Classified ads are free to members and can be submitted by email to: editor@azblacksmiths.org

Power Hammer-Ron Kinyon built
80# Mark II air hammer.
Multiple die sets and accessories.
Runs great. \$3,500

Todd 480-299-5673

Lincoln Power MIG 255,
Spoolgun ready, good condition,
welds well, new gun and whip in
2011. \$1500 obo.
Large Ar/CO2 Cylinder from
Phoenix Welding \$100. Can load
with our forklift.

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Will buy your unwanted
blacksmith or horseshoeing tools
and supplies.

Call Barry Denton, 928-442-3290
any day before 7:00 pm.

Bob Gilsdorf is moving.
I cannot take my blacksmith shop with
me. I have to sell all the big
equipment. I have : Little Giant Power
Hammer (88# I think) - works perfectly
with the motor mounted on the top of
the hammer, 4' X 8' X 38 " steel
welding table mounted on two inch
pipe stand with screws, 2 post vices,
large swage block with a stand,
multiple hammers, and hammer heads
with no handles, many hardies, 3
portable forges with tuyers for hand
pumping of air, a large collection of
tongs, melting pots, and fire tools.
There is a 50 gallon garbage can full of
coke. I have a belt sander one inch
wide belt, a 220 volt arc welder with
some rods. There is a lot of scrap iron
and stuff that may be of interest. There
is a wall mounted hand run drill press
and a lot of other antiques.

My shop is at 5416 E Calle del Medio,
Phoenix, AZ 85018. This is 4 blocks
south of Camelback on 54th street.
Phone 602 908 2598. Email:
rbgilsdorf@cox.net.
Come in and make an offer.

Wanted:
Hydraulic forging press.
Tumbler, about the size of a 50
gallon drum.

Ira 520-742-5274
treeira@hotmail.com

Picture Rock
Arizona Sierra Banded
Sandstone
makes the perfect base for all your
forged iron pieces. Awards,
plaques, memorials, water features,
furniture or anything you can
imagine.

Mined in northeastern Arizona, cut
and shaped to your specifications.

Contact AABA member:
Terry Horne
500 E. 38th Ave.
Apache Junction, AZ 85719
602-672-7085
www.arrowzonastoneworks.com

Sources

Tucson Iron and Metal
Steel, aluminum, stainless, copper and
brass for sale by the pound. Open
Monday - Friday 8 - 4:30. Also 1st and
3rd Saturdays 6:30 - 8 am. specifically
for metal artists.
690 E. 36th St., Tucson, 520-884-1554

Bar U Bar Supply
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sale. Your source for anvils, post vices,
and other new & used blacksmith tools.
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email: barubarranch@gmail.com
website: www.barubar.com

A Copper Rose Metal Art
Chasing/Repousse Pitch
Debra Montgomery
www.chasers-pitch.com

Brent Bailey.
A blacksmith in California specializing
in custom tools and ornamental forgings
for artisans.
www.brentbaileyforge.com

Pieh Tool Company, Inc.
Blacksmith Supplies, Blacksmith
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Milwaukee, Wilton & JET Tools., Air
Hammers, Hand Hammers, Tongs,
Books, Coal and Coke.
661 Howards Road, Suite J
928-554-0700
www.piehtoolco.com

Scottsdale Farrier Supply
Mostly farrier supplies, but has
hammers, tongs, and other blacksmith
goodies.
NW corner of Power and Williamsfield
Rd., Mesa.
480-838-4455

IMS
Full service supplier of steel, stainless,
brass, aluminum, copper.
5150 S. 48th St., Phoenix
602-454-1500
3757 E. Columbia St., Tucson
520-441-5900

Pacific Insulation Company
Supplier of high temp insulating
materials, bricks, Kaowool and other
refractories.
215 S. 14th St., Phoenix.
602-276-1361

Vern Lewis Welding Supply
Discount pricing for AABA members.
Various locations in the Phoenix area.
602-252-0341
Dan, 602-316-4140, for tech support.

Interstate Steel and Salvage
Specializing in Steel, Aluminum,
Stainless Steel, Brass, Copper and some
alloyed metals of all types, sizes and
shapes. Cutting, Shearing and advanced
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project needs. Valley wide delivery.
Let us quote your next large or small
job!
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Arizona Artist Blacksmith Association

Attn: Bill Ganoe

P.O. Box 40233

Tucson, AZ 85717

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The Anvil's Horn is the official newsletter of the Arizona Artist Blacksmith Association. Published every other month preceding the bimonthly meetings of the Association, the newsletter is oriented toward anyone interested in blacksmithing and related forms of metal work. Membership is available at the rate of \$30 for individuals; \$35 for families and includes a subscription to the *The Anvil's Horn* for one year. Every attempt has been made to ensure accuracy of information appearing here, but no liability is assumed by the Association, its officers or editor for errors, damages, or injuries resulting from any design, use, construction or application of said information. Uncopyrighted material may be used freely by other similar organization provided proper credit is given. Any copyrighted articles appearing herein should not be reproduced without permission of the author. Matters relating to newsletter submissions, corrections, etc. should be addressed to the editor: Bill Ganoe, P.O. Box 40233, Tucson, AZ 85717, Tel: 520-326-5478, or editor@azblacksmiths.org.

For membership information or address change, contact: Terry Porter, 2310 E. Melrose St., Gilbert, AZ 85297, 480-988-2070, trp555@prodigy.net



Example of cables inserted in a muffle (stainless steel DOM tube) in preparation for making cable Damascus by Uhrrs Chantel at the Open Forge in Tucson on 1 March 2014.