



VOICE

MAY

2013

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UP COMING EVENTS

MAY 11, 2013 - RON WELLS MOUNT JUDEA, AR
TRADE ITEM - NUT CRACKER

MAY 22, 2013 - DEADLINE FOR THE NEWSLETTER

JUNE 8, 2013 - RUSTY WHEELS - HARRISON, AR
TRADE ITEM - TBA

JUNE 26, 2013 - DEADLINE FOR THE NEWSLETTER

NEWSLETTER DISCLAIMER:

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BLACKSMITHS OF ARKANSAS

April, 2013

Thanks to Bryan Parsons for hosting the meeting at Gentry. As usual there were things to buy. I know Justin and I bought a few goodies. The weather was nice and the food was good, as it always is.

Dale Custer was asked about the web site. It is still in the works.

The group talked more about a non profit organization. What it boils down to is the cost of legal help. Does anyone have a friend who is an attorney?

We had a guest from Fort Smith, Ralph Meyers. Hopefully we didn't scare him away with the long meeting. There were about 20 members there.

Since we have a page in the newsletter to post items for sale we talked about that. We probably won't charge the members but possibly businesses. Justin and Joe are going to talk about this later.

We had some items for sale on our table. They were all good as usual. Some were new to my eyes, and I was impressed.

I know that Ron Wells and Hardy Todd attend the Bam conference in Sedalia, Missouri. They like it and encourage your attendance. It starts on Thursday, May 2, and ends on Sunday, May 5.

The Green Forest chamber of commerce is having a tractor show July 7- 8. They would be interested in a blacksmith to do demonstrations at the event. Contact Eric Chapman at 870-654-2166 if you are interested.

On May 11, the meeting will be at the forge of Ron Wells. Ron has chosen a nut cracker for the trade item.

The June 8, meeting will be at Rusty Wheels. That is just South of Harrison on highway 65. The trade item hasn't been decided as yet.

The BOA Central Chapter meeting will be held at the Grant County Museum on April 27

There will be a meeting at Glenn Owens shop the same day.

See you at the May meeting!
Harold

April 15, 2013

Robert (Bob) Patrick is an artist metal smith, primarily blacksmith. He is very accomplished in the art and a great teacher.

I am Silas Compton IV. I had the privilege of receiving an apprenticeship with Bob from the Arkansas School of Craft. This was a life changing experience.

Bob is an excellent teacher and a great person, I love working with him. Those days in Bobs shop are some of the highlights of my life. I must contribute my accomplishments as a blacksmith and welder to my teachers like Bob Patrick and Joe Doster, two of the men that made it possible.

Bob knows a lot about the traditional form of blacksmithing and uses these techniques a lot. Two examples of this in our work together were Bob teaching me the old skill of how to strike with a sledge hammer while he led with a hand hammer. Also in building the gate for our end project which was all assembled with traditional forms such as collars, mortis and tendons, rivets, and forge welding - with no conventional welding.

Bob is also very versed in the modern forms of metal smithing. Two examples is his teaching me the use of the gas forge and the power hammer. I have used these skills a lot in my work since then and I would have almost no knowledge of these skills if Bob had not covered the use of these in his teaching.

A few of the tools that Bob taught me how to make were tongs, bending forks, chisels, punches, set tools, and how to temper these. These tools and how to make them have been most useful in my work.

Some of the skills that Bob taught me were forge welding various kinds of steel, the use of coal, coke, charcoal, and gas for heating steel. He also taught me various kinds of twists in steel, splitting, punching, drifting, upsetting, and drawling out to name a few and also measuring, layout, sketching, and full-sized drawings.

Bob and Mary are both very passionate about their crafts. They are also hospitable, patient and kind.

I highly recommend Bobs classes to any inspiring blacksmith hobbyist or professional, and if you have the opportunity to work with Bob in his shop take it! What he teaches you will open a whole new world to you; also Mary Patrick's cooking is top notch!

I hope for the best for my mentor and friends Bob and Mary Patrick.

Silas Compton IV

2013 BOA Membership Roster

4/24/2013

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Smith	Jack	61 Elm Tree Ln	Mountain Home	AR	72653	870-481-5921	tjack@centurytell.net
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Spradling	Nancy	13606 Rocky Dell Hollow Rd	Gravette	AR	72736	479-787-1008	marlinspradling@yahoo.com
Sturgeon	Ameal	192 Gladiator Dr	St Joe	AR	72675	870-504-2777	blessedmomma_27@yahoo.com
Taylor	Kyle	10975 Hugh Widner Ln	Omaha	AR	72662	870-426-4436	harbor12@gmail.com
Todd	Hardy	829 Madison 2230	Huntsville	AR	72740	479-665-2249	
Truciolo	Joe	10736 Gibbs Rd	Harrison	AR	72601	479-665-2435	
Upton	Tom	1414 Feast Pl	Rogers	AR	72758	479-636-6755	thomas_upton@cox.net
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Wallace	Frank	407 SW A Street	Bentonville	AR	72712	479-273-9439	bioiron@sbcglobal.net
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We have 119 total Members.
 26 of which are Family Members.
 2 of which are Honorary Members.
 Last year (2012) we had 138 members. This year (2013) we are down 19 members from last year.

Check your data and let me know of any corrections.

Do you have an email address that I do not have? Let me know.

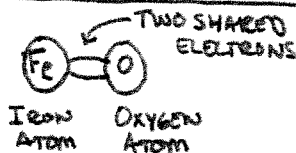
Ron Wells, Treasurer of BOA

RED RUST BAD, BLACK RUST GOOD - THE FACTS BEHIND IRON OXIDATION

THE REASON WHY METALS CONDUCT ELECTRICITY IS THAT METAL ATOMS READILY GIVE UP OR SHARE THEIR ELECTRONS WITH OTHER ATOMS. WHEN ANY KIND OF ATOM SHARES AN ELECTRON (BONDS) WITH AN OXYGEN ATOM, THAT IS KNOWN AS "OXIDATION." WHEN METAL ATOMS BOND WITH OXYGEN, WE CALL THAT OXIDATION "RUST." IRON ATOMS, IN PARTICULAR, LIKE TO SHARE THREE ELECTRONS, BUT CAN SHARE ONLY TWO IF THERE'S NOT ENOUGH OXYGEN TO GO AROUND.

ALL THAT TO SAY, THERE ARE THREE DIFFERENT KINDS OF IRON OXIDE (RUST)

FeO IRON (I) OXIDE, A.K.A. "WÜSTITE"



IRON (I) OXIDE IS RARE, MAINLY BECAUSE IT IS UNSTABLE. IF THERE IS ANY OXYGEN AROUND TO FORM MORE BONDS WITH, IT QUICKLY CONVERTS TO ONE OF THE OTHER TWO FORMS OF IRON OXIDE.

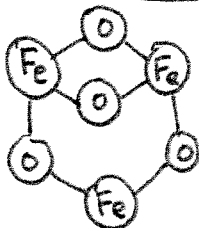
Fe_2O_3 IRON (II) OXIDE, A.K.A. "HEMATITE" OR "RED RUST"



RED RUST, ALSO KNOWN AS "HEMATITE," IS THE MOST COMMON FORM OF IRON OXIDE. MOST IRON ORE IS COMPOSED PRIMARILY OF HEMATITE.

THE BLOOD IN YOUR BODY CARRIES OXYGEN BY MEANS OF SIMILAR IRON AND OXYGEN STRUCTURES IN THE HEMOGLOBIN PROTEIN. THIS IS WHY YOUR BLOOD IS RED - IT'S RUSTY. IN THE STAR TREK TV SHOW, VULCAN BLOOD WAS GREEN BECAUSE IT WAS BASED ON COPPER, NOT IRON. (COPPER OXIDE IS GREEN), LIKE THE STATUE OF LIBERTY.

Fe_3O_4 IRON (III) OXIDE, A.K.A. "MAGNETITE," OR "BLACK RUST"



BLACK RUST, ALSO KNOWN AS "MAGNETITE," FORMS UNDER CONDITIONS WHERE THERE IS LESS OXYGEN. NOTICE THAT ONE OF THE IRON ATOMS (THE BOTTOM ONE) ONLY HAS TWO BONDS. IF THERE HAD BEEN MORE OXYGEN, IT WOULD HAVE FORMED THREE BONDS, AND CONVERTED TO RED RUST INSTEAD.

IN FACT, IF YOU DON'T SEAL THE BLACK RUST FROM OXYGEN (WITH WAX, ETC.) IT WILL EVENTUALLY BOND WITH MORE OXYGEN, CONVERTING FROM BLACK RUST TO RED RUST. THIS PROCESS IS STILL MUCH SLOWER THAN IT WOULD BE IF THE METAL HAD NO BLACK RUST COATING AT ALL.

THE EXPLOSIVE TRUTH

THE REASON BLACK RUST IS GOOD AND RED RUST IS BAD HAS TO DO WITH THE MOLECULAR STRUCTURE. AS YOU CAN SEE, WHEN OXYGEN COMBINES WITH IRON TO FORM RED RUST, THE MOLECULES LOOK LIKE A BIG SPRING. THIS IS LITERALLY TRUE. RED RUST TAKES UP MORE ROOM THAN THE ORIGINAL IRON. IT "PUSHES" THE IRON ATOMS APART.

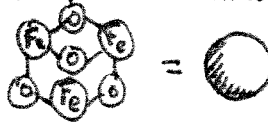


THIS CAUSES POWDERING AND BLISTERING ON THE RUSTING SURFACE. IN SOME CASES, THE METAL CAN LOOK AS IF IT ACTUALLY EXPLODED FROM WITHIN



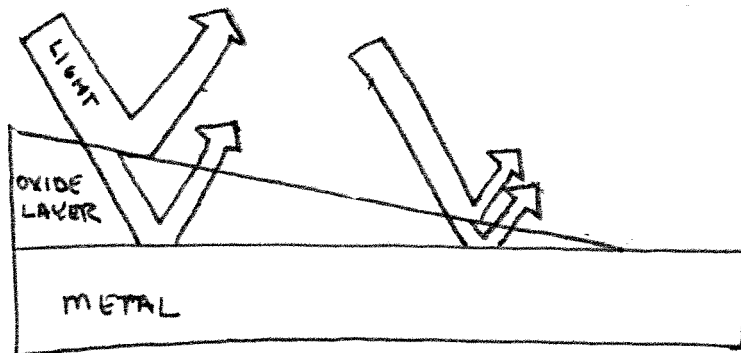
THIS BLISTERING EXPOSES FRESH, UNRUSTED IRON TO OXYGEN, CREATING A CHAIN REACTION. THIS IS WHY RED RUST WILL "EAT" THROUGH METAL UNTIL THERE IS NOTHING LEFT BUT RUST.

BLACK RUST MOLECULES, ON THE OTHER HAND, ARE LIKE LITTLE COMPACT BALLS. THEY DO NOT TAKE UP MORE ROOM THAN THE ORIGINAL IRON, SO THEY DON'T "BLISTER". SINCE THE UNDERLYING IRON IS NOT EXPOSED TO OXYGEN, BLACK RUST WILL NOT SPREAD. YOU STILL SHOULD SEAL IT WITH WAX OR VARNISH, THOUGH, SO IT WILL NOT CONVERT TO RED RUST.



THE COLOR OF BLACK

WHEN THE LAYER OF BLACK RUST IS VERY THIN, AND THE METALLIC SURFACE BELOW IS POLISHED, THE FILM OF IRON OXIDE ACTS LIKE A FILM OF OIL. LIGHT IS REFLECTED OFF BOTH THE TOP AND BOTTOM LAYER OF THE FILM. THE INTERFERENCE BETWEEN THE TWO REFLECTIONS ELIMINATES SOME WAVELENGTHS (COLORS) AND REINFORCES OTHERS. THICKER OXIDE LAYERS RESULT IN INTERFERENCE THAT CANCELS OUT REDS AND YELLOWS, LEAVING BLUE. THINNER OXIDE LAYERS CANCEL BLUE WAVELENGTHS, LEAVING YELLOWS AND RED-BROWN.



HEAT INCREASES THE SPEED OF MANY CHEMICAL REACTIONS, INCLUDING THE OXIDATION OF IRON. THIS IS WHY HIGHER TEMPERING HEATS RESULT IN THICKER OXIDATION FILMS, AND BLUER REFLECTIONS. TEMPERATURES ABOVE 700°F

RESULT IN OXIDATION LAYERS SO THICK THAT LIGHT CAN NO LONGER PASS THROUGH THEM. THIS RESULTS IN A BLACK SURFACE.

THIS IS WHY TEMPERING COLORS POLISH OFF - YOU ARE REMOVING THE OXIDE FILM. AS LONG AS YOU DON'T HEAT THE METAL AGAIN, THIS DOES NOT AFFECT THE TEMPER OF THE UNDERLYING METAL.

ALSO, THIS OXIDE FILM CAN GROW SLOWLY OVER TIME, CHANGING THE REFLECTED COLOR. AGAIN, THIS DOES NOT AFFECT THE TEMPER OF THE METAL.

Central Arkansas Chapter of the Blacksmith Organization of Arkansas

03/16/2013 Meeting Minutes

Attendees:

Garrett Sheeks (Host)

Robert Fox

Shane Driskill

1. Meeting was called to order by Garrett Sheeks on March 16th.
2. T-shirts were delivered and money collected.
3. A discussion was held on tickets for the tool box raffle.
4. Trade Item for the next meeting is any cutting tool made of metal.
5. Next meeting was set for April 27th at the Grant County Historical Museum in Sheridan, AR. 521 Shackelford Rd, Sheridan, AR, 72150. Their web page is <http://www.grantcountymuseumar.com>
12. Garret Sheeks made a motion to adjourn. It was seconded by Shane Driskill.

Respectfully submitted,

Dale Custer,

CACBOA Steward

04/11/2013

Date: Friday, April 26, 2013 7:06 PM

From: Glenn Owen <forgeontheridge@yahoo.com>

To: boa-editor@suddenlink.net <boa-editor@suddenlink.net>

Subject: May meeting

The NEA chapter meeting will be on the 27th of May at Forge on the Ridge blacksmith shop in Jonesboro. The meeting will be from 8 till 4 and the trade item will be an knife.

Thanks, Glenn Owen
NEA chapter Steward

Hello fellow blacksmiths,

The newsletter that just came out states the next Jonesboro meeting as May 27th. That should be April 27th. I plan to be at that meeting with a large load of coal. Hope to see many from NAC (Northeast Arkansas Chapter). Remember, that's April 27th.

The article, Sharpening (Plain and Simple) was reprinted from my old woodcarving web site. I hope it may be useful for blacksmiths as well as woodcarvers.

If you miss any newsletters, Please let me know and we will try to get copies for you.

The map to my place for the May 11th meeting for those who use a GPS should have coordinates N 35 degrees 51' 58.0" W 092 degrees 59' 29.0". The address will not work.

Thanks,

Ron Wells, Treasurer of BOA

TAILGATE CORNER BUY SELL AND TRADE

FOR SALE OR TRADE; FORGES, FIRE POTS, BLOWERS, ANVILS, HARDY TOOLS, TONGS, HAMMERS, VISES, AND ETC. CALL FOR A CURRENT LISTING & PRICES.

Bob Lock - 417 847 6708.

PS. I also have a 2000HD Sportster 1200cc \$4500.

Chris Padelford has a 25pound Little Giant new style in great working condition for \$2800 obo, a work table 4x4 x 1 3/8 inch thick on casters for \$400 obo, a 4in post vice on stand \$125 obo, gas forge \$100 obo. I am leaving the business after 25 years due to shoulder problems, all equipment is in great shape and has lots of use left. Plus miscellaneous blacksmithing tools, too many to list all reasonably priced. I can be reached through email brandynchrispadelford@yahoo.com or at 870-291-0366, please leave a message if I miss your call.

Si Compton has a fire pot for sale for \$ 50.00

Contact him at;

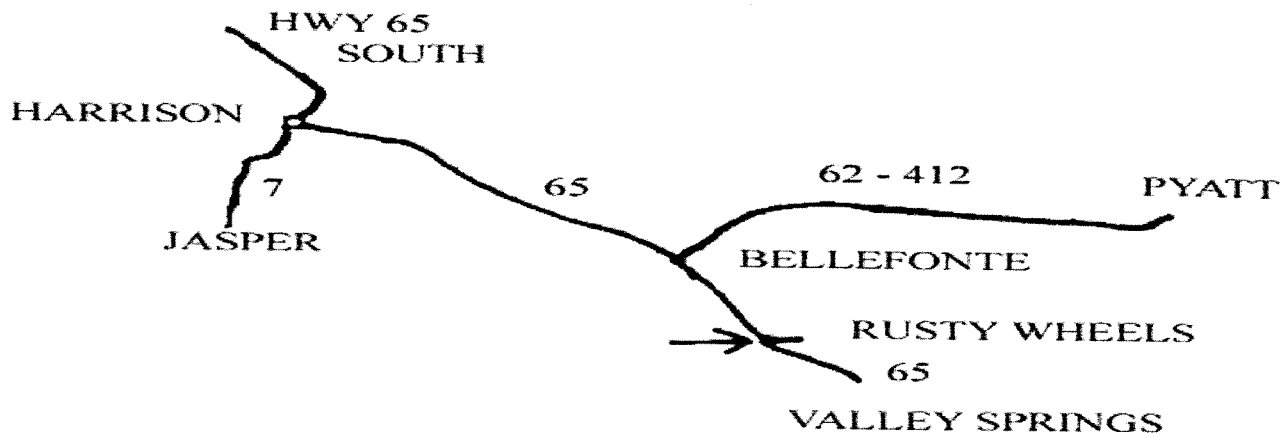
Phone - 501-701-7880

e-mail - hybiscus67@hotmail.com

We are still selling tickets for the toolbox containing all those tools. The box is getting heavy. The tickets are one dollar each or six for five dollars. Hardy Todd is taking care of that.

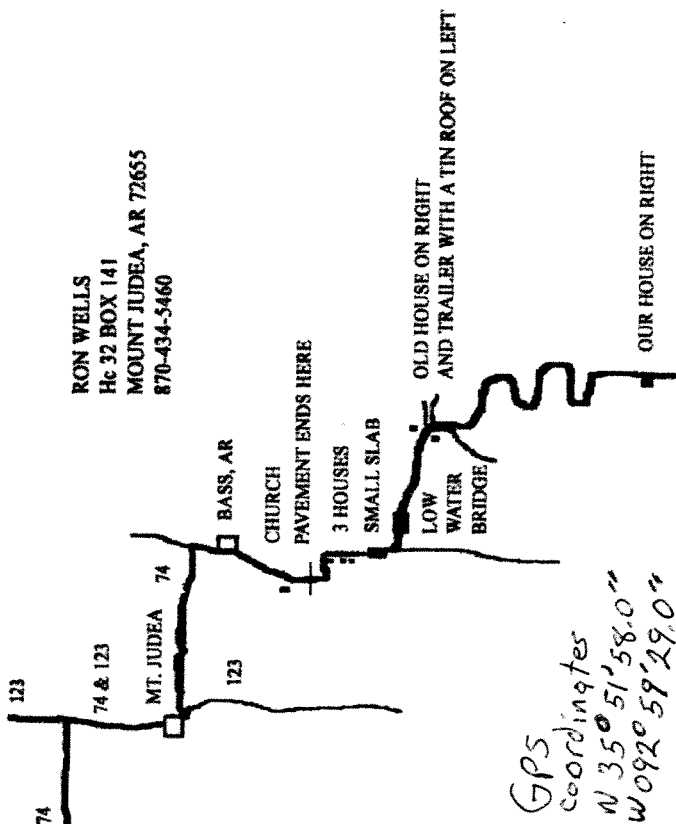
News Flash

The BOA t-shirts and caps have arrived. Come to the April meeting to pick up yours. T-shirts are \$10 each. Caps are \$8 each. We have a few extra caps, so you can still get a cap even if you didn't order one. First come, first serve.



Rusty Wheels, 5772 Hwy 65 S, Harrison, AR 72601

You can find us just about **6 miles south** of Harrison, AR 72601 at 5772 Hwy. 65 South. If you're coming **south** out of Harrison, we'll be on your **right** hand side but on the other hand if you are coming **north** on Hwy 65, we'll be on you're **left**. Either way we're not hard to find. There's a big steam train & some tractors sitting around in our front yard.



FROM HARRISON AND POINTS FURTHER EAST, TAKE 123 AT WESTERN GROVE TO MT. JUDEA. FROM MARBLE AND POINTS FURTHER WEST, TAKE 412 TO 21 TO 43 TO 47 TO MT. JUDEA. AT MT. JUDEA TAKE 74 TO BASS. IT IS ABOUT 7 MILES FROM MT. JUDEA TO THE END OF THE PAVEMENT AT BASS. YOU ARE NOW ABOUT 3 MILES FROM OUR HOUSE. THIS ROAD, IN PLACES, IS ROUGH, NARROW, CROOKED, AND STEEP, SO REDUCE SPEED AND COUNT ON ABOUT 10 MINUTES FOR THE 3 MILES. WATCH FOR 3 HOUSES WITH THE FADED WHITE BOARD FENCES. JUST PAST THIS POINT YOU WILL CROSS A SMALL CONCRETE SLAB. VERY SHORTLY TURN LEFT (MARKED BY THE ANVIL SIGN) OVER A LOW WATER BRIDGE. CONTINUE UNTIL YOU COME TO AN OLD HOUSE ON THE RIGHT AND A MOBILE HOME WITH A TIN ROOF BUILT OVER IT ON THE LEFT. STAY ON THE MAIN ROAD (MARKED BY AN ANVIL SIGN), WHICH BEARS RIGHT AND STARTS UP THE MOUNTAIN. AFTER SOME SHARP CURVES YOU COME TO OUR HOUSE ON THE RIGHT. (DIRECTIONS FROM RON)

BOA

Blacksmith's Organization of Arkansas Membership Application

Are you an ABANA { Artist Blacksmith's Association of North America } member? _____

NAME _____ Membership Dues: \$25.00
per year DUE in January *

ADDRESS _____

PRIMARY PHONE # _____
{ CELL OR LAND LINE }

E-MAIL _____

Are you interested in blacksmithing for a LIVING? _____
HOBBY? _____

Special areas of interest

KNIFE MAKING _____
GUNSMITHING _____
ARCHITECTURAL _____
RESTORATION _____
BUCK SKINNING _____
MEDIEVAL _____

BLACKSMITH ORGANIZATION of ARKANSAS

RON WELLS
HCR 32 BOX 141
MOUNT JUDEA, AR 72655

Or bring to the next meeting and give to

BOA membership is a family membership. For the payment of one membership dues all the members of a family would be afforded all the benefits and privileges of a full membership.

* If the dues are paid in the last three months { October, November, or December } of the year, membership is paid up for the following year.

If dues are not paid within the first three months { January, February, or March } of the year, the member is removed from the membership.

BLACKSMITH of ARKANSAS
124 BLUE CEDAR DR
BULL SHOALS, AR 72619

