

ORSA RIFLE AND PISTOL CLUB

Volume 1 | Issue 4 *APR-2017*



LOGO WINNER

We only had a few entries including Kyle Kirschenmann, Richard Weber, Fernando Hernandez, Cecil Baldwin, Tracey Johnson and Mike Glasman. The board voted and first place went to Mike Glasman with the new logo at the top of the newsletter. Since there were so few entries, all entries will receive a coupon for a free match entry. See Mike Glasman for the coupon. Thank you all for participating! Also, be looking for new apparel to be available for order soon with the new logo.

NEW ORSA R&P WEBSITE

By Tracey Johnson

Hey Friends!

If you are reading this newsletter, then that means you have accessed it through our new website, optimized to work best in Google Chrome. Please take a minute to peruse around and tell us what you think. We know it is in its primitive stage, but we hope to continue to expand and improve it as we go along.

In creating this site, we had a beta test group of shooters review it and provide immediate feedback. Most of the comments were aimed at the calendar page. Currently you will see an event page that is similar in style as the old website. Since we feel the event page and the results page will be the most accessed pages, then we really want to make sure we create it in a way that is most useful at providing the right information to our shooters. We will continue to investigate and take feedback of your ideas in order to accomplish this task.

Other features that are in the works, is a back-end access through a login page, where event pictures can be viewed, instructional

videos can be watched, a new shooters course can be taken, and any other information that members only would find useful.

AIR RIFLE SNIPER LEAGUE

By Dave Arney

The Air Rifle Sniper League has been meeting twice a month now on the first and fourth Saturdays for a year at the Indoor Range (look for a schedule change to first and third Saturdays soon). This informal and cohesive group of air rifle aficionados has taken the already challenging art of shooting an air rifle to new levels. Every time the league meets, Dave Arney, leader of the Air Snipers invents new targets and courses of fire to keep things interesting. When the group was first forming, they engaged simulated 600-Yard targets; however, in a short time

ARTICLES NEEDED

We need your help. If you are having an event on the calendar or are attending one, please let us know how it went and submit an article for the newsletter. Try to include some pictures. Please send your write-ups to Tracey Johnson.

this became too easy. Now, they are splitting playing cards edge-on from a minimum of 10 Meters. Shooters range in age from 13 years to those well into their 70s.

If you would like to participate, don't think it will make a big hole in your pocket. There aren't any fees and you don't need a fancy Olympic air rifle. Many participants use a Daisy model, available from the CMP for about \$100. The existing fold-up tables at the Indoor Range are used for the firing line; however, shooters are free to bring their own table and chair.

Contact Dave Arney at bigarney@gmail.com for more information on joining. We hope to see you there very soon!

THE IMPORTANCE OF BULLET SEATING DEPTH (PART 1)

By Fernando Hernandez

As hand loaders and competitive shooters, we often strive to eliminate as many variables as we can control with regards to our ammunition and equipment. Perhaps, just as frequently, we may tell ourselves, "Well, that's good enough." Here's a story about a time something was "good enough" for me.

As many of you know, the NRA High Power and CMP Service Rifle courses of fire require shooting at distances of 200, 300, and 600 yards. Rapid-fire strings at 200 and 300 yards require ammo that can be fed from a standard AR-15 magazine. In contrast, rounds are individually loaded for Slow-Fire shooting at 600 yards. This allows 600 yard ammunition to be loaded beyond SAAMI specifications, further tailoring the load to the rifle. I had prepped and primed brass ready to go, an unopened 8 lb. keg of a popular rifle powder, and I had just received 1k heavy-for-caliber match bullets. All that was left to determine was my cartridge overall length (OAL), and I was ready to make my first batch of 600-yard ammo.

At this point, I'd like to take a side bar to discuss chamber pressure. Pressure is determined by many variables, to include powder charge, powder burn rate, barrel length and twist rate, number of lands and grooves etc. For the purposes of this article, I'll focus on the volume in which combustion will occur, and the distance of the bullet's ogive to the lands. If we were to graphically plot Pressure vs. Time, theoretically, we would find two pressure spikes. The first one happens at the instant right before the bullet begins to leave the case mouth and after the brass case has obturated (expanded to occupy the true dimensions of the chamber). The second pressure spike occurs at the instant the bullet's ogive begins to be engraved by the rifling and forced to spin. Thus, the deeper a bullet is seated, the smaller the volume a given powder charge has in which to combust, which will result in a higher initial pressure spike. This can be alleviated by seating the bullet to a longer OAL. However, seating the bullet longer brings its ogive closer to the lands. If the ogive is resting up against the lands (or even jammed into the lands), the secondary pressure spike will be higher and more abrupt.

Using an analogy, visualize a car driving up a curb and onto a sidewalk. If the tires are touching the curb from a stop, more energy will be needed to jump the curb. However, if the car's tires are two feet away from the curb, they will get a running start. So there's a "sweet spot" to minimize pressure spikes for a given load. This is accomplished by seating the bullet longer to increase the combustion volume, without seating it so long so as the bullet's ogive is too close to the lands.

WED NIGHT HP PRACTICE

We have had some amazing turn out for the Wednesday evening organized HP practices. Members get there between 4:30 and 5:00 pm, with shooting starting around 5:15. It is important to be on SLACK to receive/send communications each week. All participants are asked to communicate whether they will be attending and approximately their time of arrival. As a reminder the schedule runs as follows:

- 1st and 4th Wednesdays – 200 yd
- 2nd Wednesdays – 300 yd
- 3rd and 5th Wednesdays – 600 yd

As the days get longer, we should be able to shoot through all yardages.

According to Hornady, this “sweet spot” occurs between 0.020”-0.040” off the lands. Data compiled by the U.S. military and other bullet manufacturers support Hornady’s claim. It should be obvious this is a general rule for good practice, as cartridge, chamber, and magazine dimensions can vary from firearm to firearm. It’s also worth mentioning that seating bullets closer to or further from the lands than Hornady’s recommendation is certainly not “blasphemous,” but should be preceded by a corresponding decrease in the powder charge, until the load is safely worked up; some bullets shoot surprisingly well when touching the lands. As a general guideline, deviating 10 thousandths of an inch (0.010”) from the “sweet spot” results in about a 1,000 psi change in pressure. This is a moot point for light and medium loads, but becomes increasingly significant as the load approaches the maximum.

It appears there is an antagonistic relationship between bullet seating depth and pressure. The same can be said for bullet velocity and barrel life. All of the above can be summed up by one takeaway message: monitor spent brass and primers for pressure signs, especially when loading towards the upper limit of what our reloading manuals state is safe. So let’s shoot more, worry less, and get back to my story.

To be continued...

01-APR-2017 SERVICE RIFLE CLINIC

By Mike Glasman

Our best clinic ever was held on April 1st with a full roster of new shooters. We could not have asked for better weather, more smiles, and finer coaching. In addition to being blessed with a perfect day and happy faces, the clinic ran right on schedule, due to our newly implemented ideas.

This new way not only enhanced the clinic experience for the new shooters, but it also augmented the benefits to the coaches. The major changes included pre-registration for coaching positions, advanced target/pit can preparation, pre-clinic hanging of targets, and shifting instructional emphasis from the classroom to the line and pits, including a new training session for target scoring/safety.



As a result, all but a few volunteers that pre-registered did not need to report at the crack of dawn. They not only knew their duty assignments, but also, they were shown appreciation for their efforts with a \$10 match fee credit. This new approach gave coaches an opportunity to do what they do best – spend more time coaching and answering questions for their shooter on the line and in the pits and less time standing around waiting for us to get started. Since the pits were completely prepped with targets, pit cans and chalk boards, participants and volunteers did not have to waste precious time, enabling us to include a safety and scoring briefing for the new shooters. To wit, the first shot was at 9:05 am, and we concluded with recognizing the top three shooters before 12:30 pm. Then following the clinic, coaches had plenty of practice time left in the day – 10 of us stayed to shoot at 200 yards, and we accomplished what we wanted to do, all before 2:30 pm.

Overall, the best indicator of success was that the clinic started on-time, was completed 90 minutes sooner than usual, and participants had more time to interact with their coaches. They could do what they came to do, which was to be introduced to high power rifle marksmanship.

We are working on more changes to enhance the clinic experience towards being Best-In-Class at the national level, not only for clinics, but for the rest of our activities. Stay tuned!

Finally, a huge THANK YOU to all the coaches and volunteers that made this clinic such a success. Your “Can-Do” attitude and spirit made it possible to manage the new way of doing things, and you all can all be proud of how OUR club performed for our participants and potential fellow competitors that will join us in the future.

CONTACT US

President - Mike Glasman
orsatime@gmail.com

Executive Officer - Tracey Johnson
traceycatojohnson@gmail.com

UPCOMING EVENTS

Apr-2017

08-APR -> NRA LR Prone Match 1000 yds 8 AM HP ID 12-4 PM; Larry Sparks, larrysparks@chartertn.net
09-APR -> NRA LR Prone Match 1000 yds 8 AM HP; Larry Sparks, larrysparks@chartertn.net
15-APR -> Smallbore Prone 8 AM CR & ID; Ed Foley, edf@fohcinc.com
16-APR -> NRA 3x600 Match CH & HP 600 8 AM; Gerald Bowers, coldfire70@comcast.net
16-APR -> Mini Palma 8 AM ID and CR; Thomas Colyer, precisionwelding01@comcast.net
22-APR -> M1A Match HP 300 Ch 8 AM; Mike Glasman, orsatime@gmail.com
22-APR -> Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
29 APR -> SJH HP Tournament 7 AM CH & 600 yds; Mike Glasman, orsatime@gmail.com
29-30-APR -> Smallbore State Championship ID & CR 7 AM - 5 PM; Ed Foley, edf@fohcinc.com
30-APR -> SJH EIC Rifle Match CH & 600 yd line 8 AM; Mike Glasman, orsatime@gmail.com

May-2017

06-MAY -> CMP GSM Games HP 200 & CH 8 AM; Kyle Kirschenman kkmann64@gmail.com
06-MAY -> Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
07-MAY -> CMP M1 Carbine HP 300 & CH 8 AM; Kyle Kirschenman kkmann64@gmail.com
13-14-MAY -> NRA Prone Match HP 1000 yds 8 AM; Larry Sparks, larrysparks@chartertn.net
20-MAY -> NRA APP HP Match HP and CH 8 AM; Gerald Bowers, coldfire70@comcast.net
21-MAY -> CMP Vintage Sniper Team HP 600 & CH 8 AM; Kyle Kirschenman kkmann64@gmail.com
21-MAY -> Bullseye Pistol Match; ID 9 AM – 2 PM; Robert Carden, cardenre@aol.com
27-MAY -> Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
28-MAY -> LR Team Training 8 AM 1000 yds; Phil Hendra, phendra@tds.net

June-2017

01-03-Jun -> Charlie Smart Memorial NRA Regional HP Rifle Championship; Mike Glasman, orsatime@gmail.com
03-Jun -> Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
04-Jun -> EIC Rifle Match CH & 600 yd line 8 AM; Mike Glasman, orsatime@gmail.com
09-11-Jun -> NRA Regional LR Championship, 8 AM CH; Larry Sparks, larrysparks@chartertn.net
10-Jun -> ARBA Auto Rimfire Bechrest 10 AM; James Carroll, danaaudio@comcast.net
11-Jun -> ARA Unlimited Rimfire Benchrest 10 AM; James Carroll, danaaudio@comcast.net
17-Jun -> Camp Perry practice 8 AM; Cecil Baldwin, cabaldwin@mindspring.com
18-Jun -> CMP Vintage Sniper Team HP 600 & CH 8 AM; Kyle Kirschenman kkmann64@gmail.com
18-Jun -> Bullseye Pistol Match; ID 9 AM – 2 PM; Robert Carden, cardenre@aol.com
24-Jun -> CMP GSM Games HP 200 & CH 8 AM; Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
24-Jun -> Air Rifle Sniper League ID 10 AM; Dave Arney, bigarney@gmail.com
25-Jun -> M1A Match HP 300 & CH 9 AM; Mike Glasman, orsatime@gmail.com

KUDOS

Mike Glasman would like to thank Sean Peterson and David Keifer for coming out before the April 1 clinic to help with prepping pits by helping to organize the pit cans and refacing targets.

Tracey Johnson would also like to give kudos to all the coaches and volunteers that came out to assist/partake in one of the most successful clinics to date this past April 1. It is only through your valuable time and hard work that we can grow and make this program successful. Chubb hug for all of you!