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Spring 2014 – Volume XCIII No. 1

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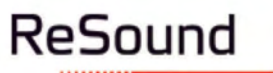
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NATIONAL RIFLE ASSOCIATION



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Welcome



Weathering the storm

With a flurry of staff changes and miserable weather to contend with, Andrew Mercer says it's been a testing start to 2014

Prolonged wet weather is proving to be a frustrating brake on a large schedule of planned work at Bisley. Thankfully the extensive drainage works to Century range were completed in early December and I foolishly suggested we needed "a good rain" to flush the drains through. This comment continues to haunt me with

ongoing downpours, but at least the drainage has proven its worth, with storm water clearing efficiently from the range floor. Further drainage improvements to Butt Zero are scheduled at the end of February and Melville in March; my visits to these ranges highlight the urgency of this work with significant pools of standing water very evident.

Road repairs are another priority and we managed a small amount of remedial works before rain stopped play. The camp roads seem to be deteriorating before our very eyes and staff are struggling to patch the worst areas ahead of the proper improvements.

Despite the weather, the ranges are busy with hardy souls enjoying their shooting. I was fascinated to see a small group of black powder Sharps rifle enthusiasts shooting at 1,000 yards recently. The somewhat inelegant process of washing out barrels with mouthfuls of water was a surprise, but the enthusiasm of the shooters was a delight to behold.

The Civilian Service Rifle Winter League goes from strength to strength, with a field of more than 100 competing whatever the weather. Peter Cottrell, our head of shooting and competitions, has been working with a crack team of supporters to develop introductory and skills training days; the results are a rapidly growing body of competitors. It is very much a "help yourself" venture, with squads taking turns to shoot then mark in the butts. Peter himself is worryingly near the top of the league tables and, despite my encouragement to give others a chance, continues to shoot to a very high standard.

I hope you have renewed your membership and received your 2014 membership card. The membership team has been significantly remodelled with a new team of staff and even newer membership management system. As always, clever technology needs time to bed in. We are running it in tandem with



Robin Pizer worked with enormous energy for the Association



With the worst of the weather over for another year, it's time to focus on events on the range

the old system and expect to go properly live in the coming weeks. We have an embarrassing plethora of unlinked databases in the offices, and the new system will greatly assist our efforts to centralise records.

There is considerable debate at the moment regarding the NRA's relationship with the Bisley-based clubhouses. In the past they have predominately served the target rifle community; however today TR represents less than half of the stated primary disciplines of our membership. We also have the odd situation where the NRA Shooting Club is probably the largest and most active club on camp; this suggests that too many of our members are not using the clubhouses on site.

There is lively debate at the moment based on recent rent reviews and the understandable claim that the NRA is charging too high a rent. We are, however, committed to charging affordable, equitable and consistent rents that allow opportunities for tenants to invest in the buildings. Some of the

historic levels of rent are astonishingly low – less than 50 pence per square foot per annum – and moving forward we need to ensure clubhouses contribute a fair proportion to the substantial costs of maintaining the Bisley estate.

There has been a flurry of staff changes recently and we have seen departures including Nick Karavias (estate manager), Heather Webb (membership manager), and Amanda Vaughan (events manager). New appointees include Peter Cottrell (head of shooting and competitions), Sally Wilson (deputy head of shooting and competitions), Chris Dyers (commercial and operations manager) and Steve Dann (buildings maintenance foreman). Other new staff will shortly be taking up new posts in the membership and commercial teams.

We are putting the finishing touches to our plans for the 2014 Open Day to be held on Saturday 3 May. This year we will invest more resources to recruit new members and encourage participation

in the full range of shooting disciplines. The layout will include a large pavilion with displays promoting each discipline, and offer a range of interesting shooting opportunities based around Stickledown range. Numbers will be strictly limited with priority given to guests of NRA members and affiliated clubs. Please see the website for further details.

Saffery Champness has just completed the annual audit of the accounts ended December 2013, a full two months ahead of last year. We are on schedule to publish the accounts and annual report by April 2014; my short summary of 2013 reads "good progress but could and should do better".

Dr Robin Pizer recently resigned as chairman of the Association. He has worked with enormous energy for the Association and has been both generous and supportive to me in my first year as secretary general. I look forward to seeing his familiar supine figure on Stickledown, relaxed and free from the burdens of chairmanship. ■

News

TREASURER'S REPORT

NRA treasurer Derek Lowe released his annual report to the General Council in December 2013. After six months in the post, his key findings were as follows:

- The NRA's senior employees need to understand with confidence both the workings in detail of the broad range of the NRA's activities and the higher level dynamics of our overall financial circumstances
- Council, as the NRA's Trustees, need



accurate, timely and representative reporting and forecasting in order to provide the necessary scrutiny, strategic direction and support of management

- NRA members, most notably as represented by the members of General Council, will have an appreciation of the NRA's status & direction only if they have a clear and realistic understanding of the finances, along with some visible continuity in the make-up and strategy of management

He concluded his report by saying: "The revenue from and profitability of our commercial activities will be key to achieving these budgets and relieving the pressure, as far as is realistic, on individual shooters."

To read the report in full, please visit www.nra.org.uk

EU FACE THE MUSIC

The European Federation for Hunting and Conservation (FACE), the umbrella body for European hunting bodies, has condemned the European Commission's plans for a full review of firearms legislation as 'aiming at the wrong target'.

Publishing its full response to the EU's consultation, the body contested Europe's planned amendments, saying they were based on "unsubstantiated claims".

This comes in response to the European Commission's publication 'Firearms and the internal security of the EU: Protecting citizens and disrupting illegal trafficking,' which announced plans to completely revamp Europe-wide controls on the legal acquisition and possession of civilian firearms. The result, many hunters fear, is that governments will have no choice but to tighten firearms legislation.

FACE secretary general Filippo Segato said: "Acquiring and owning firearms is already strictly regulated at EU level. Legal firearms owners such as hunters undergo a number of tight controls and do not feed the illegal market in firearms.

"The Commission is simply aiming at the wrong target. Furthermore, the methods used by the Commission in this process are very questionable from a democratic point of view and are bound to provoke serious open debate whether the Commission is playing by the EU rules or just playing politics."

In a 34-page document released on its website, FACE has responded point-by-point to the aims of the EU firearms review. Read it at www.face.eu.

DISCIPLINARY HEARING

Following an incident on Century Range on 8 October 2013, when shots were fired during the lunch interval while staff were working on the upper parts of target frames, the Disciplinary Committee has

prohibited a member from using facilities at Bisley until 1 January 2015 and required that the member renew his Certificate of Competence by assessment of a member of the Association's professional staff.

REIGATE INCIDENT

A man in his seventies, who shot himself at John Powell Gunmakers, Reigate last month, had taken his own ammunition with him, reports *The Daily Telegraph*.

Michael Belford, 76, walked into the shop, on Church Street, Reigate, and asked to look at a gun, before proceeding to load it and fire it.

Around a dozen police cars and paramedics made their way to the scene at 9.40am and Mr Belford was declared dead inside the shop.

A post-mortem examination on his body is due to take place and the case has been passed to the Surrey coroner for an inquest to be held later in 2014.

Detective Inspector Antony Archibald of Surrey Police said: "Detectives carried out an investigation into the circumstances surrounding Mr Belford's death and we now believe there was no third party involvement or suspicious circumstances surrounding the death and a file is being prepared for the coroner."

JANE'S BANG ON TARGET

On the face of it, £1,083 for a Christmas lunch seems a tad expensive – but to Jane Shields, it was more than a fair exchange for her chosen dessert course was Christmas pudding with Cornish clotted cream.

£1,083 was the fantastic amount raised by Jane throughout 2013, which she generously donated to BUGS (Blind Using Guided Sight); a charity-registered, specialist air-rifle shooting facility for Blind and Visually-Impaired Persons, located in St. Austell, Cornwall. The total sum far exceeded the target of £1000, which she had set herself for the year.

It is the second year running that Jane has chosen BUGS as her adopted charity to receive the proceeds of her fundraising efforts, the majority of which is raised from friends and shooting enthusiasts at the NRA, where Jane is a volunteer receptionist.

The money donated by Jane will be used towards the provision and up-keep of shooting equipment and facilities, and towards funding a team of shooters and volunteer helpers to compete in the 2014 Visually-Impaired Shooting Championships, organised by the National Small-Bore Rifle Association, to be held in the West Midlands in March.

Dave Whiley, thanked Jane on behalf of all club members, and asked that she relayed their good wishes and appreciation to everyone at Bisley for their continued generosity and support.



CAM SLAMS FEE RISE

Increases in shotgun and firearms licence fees may have been blocked thanks to an intervention from the prime minister himself.

Since last year an increase for licences and renewals to £92 from the current £50 has been tabled, with the fee rising in line with inflation after that.

But PM David Cameron and environment secretary Owen Paterson, according to the *Sunday Times*, have intervened to keep the fee at its current level.

The Association of Chief Police Officers last tried to push through a fee increase in September 2013, but the move was postponed.

At the time, BASC said: "BASC recognises that an increase in firearms licensing fees is due, but we believe any rise should be linked to better police efficiency and effectiveness in delivering the licensing service.

"BASC believes lawful gun owners should pay a fair price for a fair service, but we know that the standard of service varies dramatically across different police forces."

SHOOTING MAG REMINDER

BASC is reminding members to report any instances of age restrictions being placed on shooting magazines at supermarkets or newsagents.

This comes after fresh reports that a shooting magazine was age-restricted at self-service tills at Asda.

BASC said it had queried the report with Asda head office, who said it had no age restrictions in place and it would be rectifying any till prompts that incorrectly appeared.

"This example highlights the need for people to remain vigilant on the sale and display of shooting magazines," said a BASC spokesperson.



YOUR Views

If you have an opinion or suggestion you would like to share, write to "Journal Letters" at NRA HQ or email nra@blazepublishing.co.uk

NOT MY TYPE

Dear Editor,

I have just finished reading the NRA Winter journal, and am writing to say that I appreciate the wider range of content – well done. However, and there is always a but, the typeface leaves a lot to be desired in terms of clarity – it is really hard to read. Could you not find something easier on the eye?

Geoff Robinson



TRAFALGAR BARE

Dear Sir,

I felt compelled to contact you after reading the Winter Journal and finding, to my dismay, that the Trafalgar Meeting had been largely glossed over. Your brief report (*Troubled Trafalgar*, Winter 2013) signs off by saying, 'If the Trafalgar is not supported it will be difficult to sustain its future.' It strikes me that, if the event is only worthy of a cursory mention in the Journal, then how can we possibly hope to attract new competitors for this year's event? I have friends who come across from Europe to take part – they will surely think twice if the event is even being neglected by its organisers! As always, I look forward to attending this year.

Name supplied

AN IMPERIAL FIRST

Let me begin by commending you on the improvements made to both the appearance and content of the Journal in the past 12 months. I was delighted to read your article on the Imperial Meeting, and why it is an event for everyone (*Imperial Appeal*, Winter 2013). I don't profess to being the world's finest shooter and I must admit that the sheer scale of the meeting has put me off from attending in the past. But Mr Ringer's piece has convinced me that it is worth going at least once and I have already put the date in my 2014 diary. Now if it would just stop raining, I can go out and get some much-needed practice!

Steve Wormsley, Yorkshire



FACING UP

There seem to be so many staff changes at the NRA, I don't know whether I'm coming or going! Is there any chance you could do a bit of a who's who in a future edition, preferably with photos, so I know who I should pester next time I'm at Bisley?

Mr J. Woodfield, Surrey

HANDY FEATURE

Until recently I'd never thought about loading my rifle by hand but the article in the last issue (*An Introduction to Handloading*, Winter 2013) has made me think again. I know it's proved popular among shooters of historic arms over the years but I'd never considered trying it myself, yet your article suggests it's growing ever more popular. I just hope I'm not too late to follow the trend...

Ray, Derbyshire

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Once more unto



Leonard and Guy A-R-West review a 19th century Prussian needle-gun

Few important guns have been so misunderstood and berated as the bolt action Prussian Dreyse needle ignition system. Not only is it a breech-loader, but also a rifle – many contemporary armies mainly had smooth bore muzzle-loading muskets issued to their infantry. It took two wars for the military powers to finally become aware of the advantages it conveyed, and for Prussia in particular it was then considered a national treasure. After that, a certain

complacency settled in and it rapidly became obsolete when pitted against superior bolt action and single shot breech-loading rifles.

We first encountered the Dreyse system only when very basic information was available in English, but this is now changing. The only available information was quite biased, as it

particularly described its flaws: gas leakage blowing back in the soldier's eyes, needle breakage and excessive breech fouling, preventing bolt closure. It is claimed that the Prussian infantry shot their rifles from the hip because of the alleged ineffectual breech obturation of the Dreyse system, prohibiting their rifles to be brought to the 'present', owing to escaping gas from the cone breech juncture leaking back into the face, causing flinching. This *modus operandi* was to use the firepower of the breechloader under precarious circumstances when on the move (walking fire), and not inadequate breech obturation.

Being interested in German firearms, we found it curious that such a sound system was adopted, which had been so successful in the Prussian army, but with such a bad reputation elsewhere. Surely the Prussian army would not have even considered it, let alone persevered with it, if it was such a flawed firearm. This presented a challenge and after several years of research developing facsimile cartridges, certain facts became apparent. This gun, in the hands of a trained soldier, was formidable for its time. It did have a slight breech leakage, but this was well contained owing to its innovative construction. It was well designed and a reliable military rifle, albeit with its contemporary cartridge technology. As a safeguard, each soldier was issued

with two spare needles and NCOs with coil mainsprings and leather obturators. The needle could be replaced without having to remove the bolt. Needle damage was generally caused by neglect or mishandling and not heat erosion.

The cartridge went through several modifications and the Patrone M/55, with its unique streamlined bullet, the 'langblei' (long lead), was standardised and was used throughout the Austrian and Franco-German conflict. The Patrone M/55 is a centrefire cartridge, in which the needle, to reach the primer, has to first penetrate a powder column located in a pocket at the base of a rolled and form-pressed paper sabot. The sabot, which holds and imparts the bullet's spin – the actual calibre being 15.43mm and the bullet diameter 13.6mm – does not contact the bore. On leaving the muzzle, four diametric cuts in the sabot's mouth allow the four segments to open, thereby releasing the bullet. The sabot also helped scour the bore of fouling. The M/55 cartridge was ballistically inferior to that of the later French Cartouche Mle. 1866, but far more durable. A new cartridge had been developed before the 1870 conflict to gain some parity, but for logistical reasons was officially adopted later, in 1872, in conjunction with a modified bolt face that efficiently sealed the breech. The modification was called



the Breech

the Beck Transformation. The new cartridge, the Patrone M/72, with its increased charge and lighter bullet, provided a velocity gain of 44mps and to accommodate the flatter trajectory, the rear sight bed altered for an adjustable graduated leaf with a cursor.

On closing the bolt, the precisely machined cone self-centres and effectively seals the breech. Breech obturation is by means of a mating cone arrangement, forced together by a camming action applied under pressure, whereby any escaping gas is directed forward and upwards. As the angle of the bolt handle does not lock horizontally, the cones also permit any wear between surfaces, allowing for the angle of the bolt to increase until a limit is reached and replacement cones brazed on.

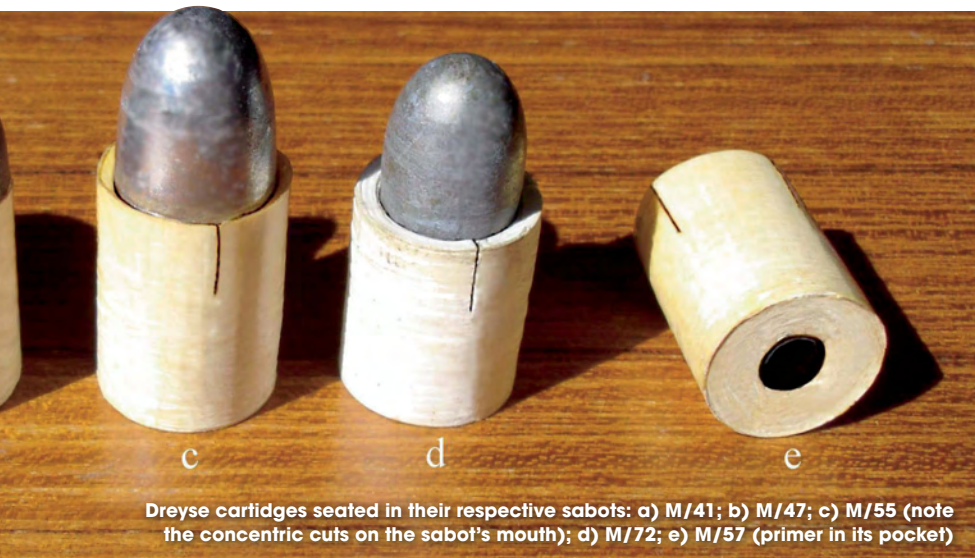
Shooting the M/41 was a welcome surprise and good enough for us to enter Large Bore Vintage Service Rifle competitions at 200 yards during some Historical Arms Meetings at Bisley. On a few occasions we achieved second placement, against more efficient metallic cartridge breech-loaders – proving to us at least that our confidence was not in vain.

It must be mentioned that to achieve accuracy with the M/41 infantry rifle, it had to be shot with its socket bayonet fixed as it was regulated to do so. However, it makes

for a cumbersome combination on the firing point. This was not the case with other specialised branches of the Prussian army, which were issued with sword bayonets and only fixed when necessary.

To conclude, suffice to say, the Dreyse system proved an efficient and accurate arm within the limitation of its combustible cartridge, although some problems were experienced initially owing to incorrect needle material. But besides that, over two decades of evaluation, we never experienced fouling preventing bolt closure or gas blowing back into the shooter's eyes. Recoil is soft owing to the rifle's weight with the combination of the sabot system. To load, the cocking lever must be pulled fully rearward before opening the bolt, seating a cartridge and then pushing it fully forward after closing the bolt. The action is now cocked.

Shooting needle rifles in France and Germany is becoming increasingly popular and competitions are regularly held. In the United States, the Chassepot Mle. 1866 is becoming more evident on ranges – maybe the Dreyse system will follow. We found it was well worth the investment in time, effort and patience to make it possible to shoot with confidence. The most satisfying aspect was participating in competitions in the spirit of rifle shooting with these historical 'first' military issue bolt-action rifles. ■



Dreyse cartridges seated in their respective sabots: a) M/41; b) M/47; c) M/55 (note the concentric cuts on the sabot's mouth); d) M/72; e) M/57 (primer in its pocket)

Savage Beast

Nick Parrish tests out the Model 12 LRPV from Savage Arms with 6mm Norma BR cartridges

I have long been a fan of Savage Arms rifles. They take bold steps into new territory, making affordable factory rifles in emerging popular specifications suitable for the needs of the user, not just the salesman. The Model 12 LRPV is a perfect example of this forward-thinking approach as it replicates the design ethos of proven custom guns, with features that are different in a factory rifle.

The 6mm Norma BR is one of those calibres that has a deserved reputation for excellence. It has that intrinsic accuracy, partly due to a modest powder capacity, and is consistent with a trademark long neck, steep shoulders and a small rifle primer. Although the short, fat cases don't always suit magazine-fed rifles, the LRPV makes no excuses for its pinpoint accuracy, favouring single-shot build. A right-hand bolt with a left-hand loading and ejection port is suited to firing a single-shot action from a bench – or the ground for that matter – at rapid speed. If the rifle is well supported, the right hand cycles the bolt, with the left able to drop a new round onto the feed ramp rapidly. The Savage's barrel is hefty at 26in long, and a straight taper, from the action at 1.1in to muzzle at 1in, is interrupted by minimal fluting, which is purely aesthetic. The muzzle has a 90° recessed crown and has all the hallmarks of being done accurately – no minuscule burrs to snag a cotton bud.

The gun closes with a neat stainless bolt handle and nothing to interrupt the otherwise clean lines. The bolt head is removable and floats in contact with the case head to improve accuracy on a rifle that is built to factory tolerances. The ability to change just

the bolt head couples well with the barrel change facility. The locking nut can be removed, and a replacement factory barrel, possibly in another calibre, re-fitted and simply torqued into place with 'go' and 'no-go' gauges. The bolt shaft is machine-turned to improve appearance, running quickly and smoothly in use after about 10 rounds of break-in time. The warning written on the side of the action in big black lettering, however, is a little unsightly.

The rear right of the action shows a release catch that works in coordination with the trigger to remove the bolt, while the reverse reinserts it. The safety sits behind the cocked action indicator with three positions for fire, safe with bolt operation, and safe with bolt locked. It is quiet in use and easy to operate with the thumb of the firing hand. A 90° bolt handle lift is appropriate to the two locking and two floating lugs in the action. The one-inch handle ball provides firm but adequate leverage to assess cartridge case pressures in what is very likely to be a handloaded ammunition rifle.

Operation is fast with positive primary then secondary case extraction from a claw, recessed into the left bolt lug's face. A plunger ejector slings the case free of the ejection port with a little persuasion. So make sure your reloading hand does not get in the way as the ejected case may bounce back into the loading port. This is not a criticism, though – an accurate rifle demands cases should be treated with gentle respect, and the fast





Model: Savage Model 12 LRPV left port

Calibre: 6mm Norma BR (.204, .223 and .22-250 also available)

Magazine capacity: Single-shot

Barrel: 26" Button rifled

Length: 46 1/4 in

Weight: 11 lb

Finish: Bead-blasted stainless steel

Stock: H-S Precision composite with aluminium bedding block

RRP: £1,950

Contact: Edgar Brothers 01625 613177 www.edgarbrothers.com





loading co-ordination soon becomes a well-practised drill.

Where the Savage really stands out as a brave contender in the factory rifle world is its 'AccuTrigger'. Target guns arrive with a red-bladed unit that provides a single stage pull down to 1.6oz. Although the secondary internal red polymer blade within the steel trigger requires pre-depression, it is so light as to simply fall under the weight of a delicate fingertip gently laid onto the feather-light blade. The trigger almost felt a little like a two-stage unit but with a first stage so light as to be forgotten. What I got after this was a consistent 17oz factory setting with no creep whatsoever and very little over-travel. If the steel blade is pulled without the red internal lever depressed, you simply get a 'dead man's click' and the bolt must be re-racked to re-engage the trigger.

Given the popularity of the varmint rifle on Savage's home turf, the LRPV does show some compromise towards this heritage in its stock design. An H-S Precision composite unit is fitted with a moderate 13½in length of pull, a low cheekpiece but a very straight design that will ride well on a rear bag. The lightly stippled surface feels grippy and warm to the touch. Studs are fitted on the underside of the butt and beavertail forend for bipod or sling mounting but are easily removed to aid bag riding. Internally the action is quite simple. There is no mag cut-out on either surface to reduce stiffness, and the Savage 'Target' action displays three action bolts to draw the rifle firmly onto the secure aluminium bedding block. Sandwiched

between the action face and barrel nut, the recoil lug bears solidly onto the aluminium face of the bedding block and the action actually sits on what are effectively two rails in the block. These contact points can be seen on the base of the action as slight lines after the gun has settled in. Differential torque settings to the three bolts have shown them to tune accurately, although it is quite arduous. I just torqued them all as evenly as I would with a two-bolt design.

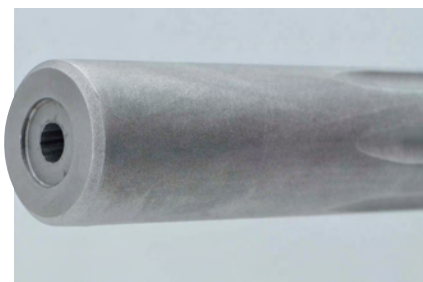
Above the action, a Picatinny rail is supplied, bolted in at four points for simple scope mounting, and the underside trigger guard is spacious even for a gloved hand. Up front I fitted a Harris 6-9in bipod but also shot the gun on a wider Third Eye Tactical FTR bipod for greater stability on softer firing points.

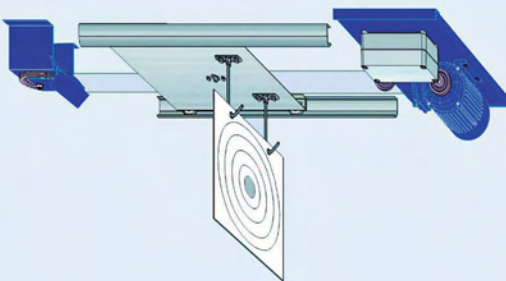
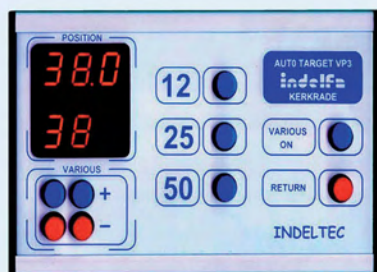
The gun was fed solely on handloaded ammunition – I doubt any 6BR would live any differently. Although available with a 12in twist rate on the barrel, I chose the 8in version as a heavy bullet stability of 105-107 was my goal. After a few initial trials, the gun was very happy to shoot any three-round recipes I showed it under 0.5 MOA on the 100-yard test target.

Availability, or lack thereof, dictated I ran 105gr Lapua Scenars on top of Viht N140 in Lapua brass with Fiochi small rifle primers. Accuracy was consistent, with no thermal point of impact drift – even on long strings the tight groups opened very little. Velocity struggled a touch at only 2,648fps – I think the same bullet but with Hodgdon Varget powder would have driven this higher. I

used the gun in a 600-yard benchrest competition, which, over four five-round groups gave me an aggregate of just over 0.5 MOA. This was stung badly by one particular group shot badly by myself in the wind – but still sub-MOA, which indicates the ease of the gun's performance.

Higher velocity from the load is easily achievable as load development continues but after only 120 rounds fired cautiously, the barrel is nicely broken in with a smooth feel during cleaning and very little copper fouling. Long strings were comfortable to shoot, with the gun showing little recoil and tracking straight, if a little nose-heavy. Any temperature increase of the stout barrel was hardly detectable from any less than 10 rounds of rapid fire and with around 30gr of powder per shot, the gun was very economical to shoot. A little more load development to 2,800fps and above will return a pleasant gun to shoot at up to 1,000 yards with comfortable, if not supreme ability on target. This is a very competitive gun in any class, at factory rifle prices for specialist target shooting. ■



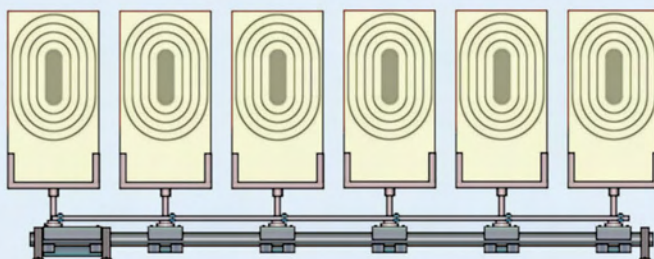


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Splitting the Target

James Harris reviews a weather-hit Multi-Gun Match, which demonstrated the value of accurate shooting

Multi-Gun? More like muddy gun! After what seems to have been a permanent rainstorm since Boxing Day, Butt Zero had assumed the character of primeval swamp, albeit inhabited by an emerging species of shooters known as multi-gunners. This genus is typified by a hardy nature and an overwhelming urge to enjoy the sport of shooting, whatever the slings and arrows of fortune may throw their way. The sport of multi-gun shooting is a relatively recently codified discipline. But it is rapidly growing in followers who are drawn to it by the requirement to master more than one type of firearm and the shooting challenges presented by multiple target types at varying distances.

The standard targets for shotguns are the familiar steel plates currently used

by many clubs, with clay pigeons also added for variety. But the clay pigeons are variable targets and, when presented as a static target, they can be shot with any of the firearms permitted on that stage. So this presents the shooter with two options. They can either use the pistol or rifle with the large capacity magazine to shoot them, or the comparatively slow-to-reload shotgun. The decision then is whether to slow down with the pistol/rifle and spend a bit more time aiming or having to reload more often with the shotgun. In addition to small falling steels the rifles/pistols are used to shoot at the 'roundel' targets. These have two scoring zones, a red bullseye of between 50-100mm diameter and a black 'outer' ring of between 150-250mm. To reward the more accurate shooter, only one hit is required in the bull to clear





John Thorne on his way to victory in Open Class



Adam Williams takes on stage six

the target. For those that shoot quickly but cannot aim so well, two hits in the outer achieve the same result.

The scoring concept is based on total time taken from start to finish with time penalties added on for misses and procedural errors, much like winter biathlon where a missed target incurs a time penalty or a lap of the holding circuit. The lower the total time, the better the placing in the ranking, and the person with the lowest total time across all stages wins. Simple. The competitor can choose where to shoot the targets from and which firearm to use. Once they think they have finished with the first gun they 'ground' it in safety boxes and pick up the next one to be used. Target layouts are very much dependent on the range facilities and where possible all calibres can be included, from .22 through centrefire pistol calibres to HV rifle and of course shotguns.

Given the atrocious weather and time of year, the match was restricted to 50 shooters and six stages, which began at 8.30am sharp, after an unambiguous safety briefing. Many of those who travelled from the more distant parts had stayed the night on camp so were bright-eyed and bushy-tailed. Those who had battled through the weather and disrupted road networks were perhaps a little less



Adam Williams contends with the conditions as RO Paul Tasker looks on

refreshed when the start signal was given. The stages themselves were laid out across the Bianchi complex on Stickledown and had been built up the day before by the volunteers, who turn out to make these matches work. The build was accompanied by the constant drone of the pump employed to remove the standing water, and the 'slop, slop' of wellies in the mud.

Saturday's shooting was accompanied by persistent drizzle and gusts of wind that tried to take the targets away. But Sunday morning was blessed with brilliant sunshine and no wind – an ideal day for testing 1,000-yard hand loads, had there been any rifle shooting going on.

The new plate racks built by the shooting services team, led by Alan Brant, looked resplendent in gloss black. Made for fast re-setting with a simple tug on the rope, they assisted in the smooth running of stage one which mixed up some high speed shotgun shooting with snap shooting on the turning targets with a .22. Note that .22 pistols competed on even terms with .22 rifles. As the sport grows we will look to split them out into separate divisions, but for now the handgunners mix with the rifle shooters. The fastest time, including

penalties, was 34.10 by Gwyn Roberts, shooting a Ruger 10.22 and a Winchester SX3, and he didn't have any misses.

Stage two on the centre bay involved a lot of running about and the small steel targets for the .22s (60mm x 80mm) certainly proved a challenge at 25 metres when you're standing and the heart rate is up. At least that's the excuse that was given! Neil Purdue shot a quick 81.03 using a SW 15-22 and a Mossberg, and he too incurred no miss penalties. Not missing is the name of the game as the time penalties are severe.

The third stage on the Bianchi plate range – also known as the Butt Zero pond – forced the shooter to change firearms twice as shooting the shotgun targets revealed rifle targets on a bobbing mechanism. Bearing in mind the bull was 50mm and it's not easy at 20m, and throw in the fact that it was swinging wildly from side to side over a five-foot arc, and it



became nigh-on impossible to hit. The stage winner, Clive Gamlin, managed to shoot it clean in 43.62 using a Winchester SX3 and a Lantac .22. The morning stages were not quite done and dusted before the hooter sounded for lunch, so a shoot-through was required before swapping the stages round for the afternoon.

Stages four to six were smaller in the respect of target numbers, but still required the same accuracy and speed to successfully complete. Although the shooters varied from absolute novices to grizzled old-timers, they were united by a determination to have fun in very trying conditions. Hopefully the improvements planned for Bisley will allow far larger events to be held, as this is obviously a type of shooting that has potential for growth and is not yet well catered for. Unfortunately the event ran late in the day and last shots were at 4.15pm. But the competitors all pitched in to clear the range of targets and ephemera, so the prize-giving was not delayed. At this time of year not many of the clubs are open owing to a lack of customer base and restrictive licensing conditions, but the Old Sergeants Mess volunteered to stay open for the prize-giving and Neil Purdue churned through the paperwork to provide the results at 5pm.

The division winners were John Chambers in Standard Iron, Gwyn Roberts in Standard Optic and John Thorne in Open Class. The overall winner was John Chambers with a total time of 362.88 seconds (including penalties). That's a little over six minutes to



Layne Chisholm had to settle for 12th place in Standard Optic



shoot about 200 rounds at 110 targets in addition to reloading, changing positions and remembering where the targets are. It just goes to show that whether it's F Class or multi-gun, hitting the target is what matters.

A great deal of effort is put in by the volunteers who help to build and run these events. If medals could be awarded to them, there are certainly a few deserving individuals. Without the support of the shooting community to turn out, shoot, lend a hand to run the events and above all have fun doing so, our sport in all its forms, will wither. If you want to know more about taking part in these events, or assist in running them at your own range or at Bisley, get in touch at targetshotgun@nra.org.uk. ■

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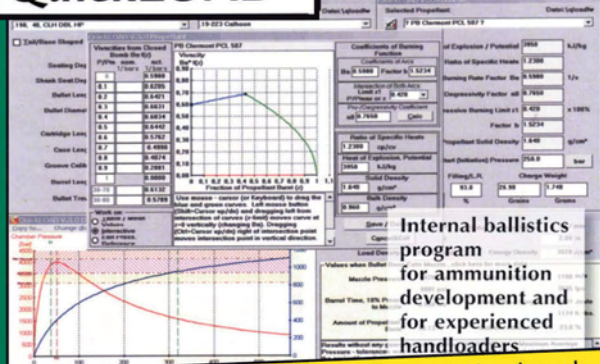
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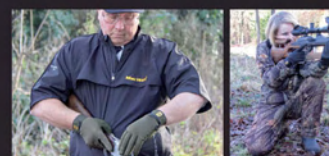
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Jerome Selwyn-Smith
at 300 yards

MATCH REPORTS

A round-up of shoots in late 2013 and early 2014: Long Range Rimfire and the NRA 100

Long Range .22 Rimfire

By Richard Kenchington

Two Long Range .22RF meetings took place in autumn 2013. On Sunday 29 September, the annual competition for the Turbutt trophies was held at Thorpe Cloud range in Dovedale, on the southern edge of the Peak District. The range is situated in a gully that runs north-north-west, so it is sheltered from a direct crosswind but is susceptible to turbulence from winds blowing above the gully and direct south-south-easterlies. It has three targets and extends back to 500 yards.

The meeting attracted a near-capacity entry of 14. Standard Bisley TR targets were used, and the course of fire was five non-convertible sighters and 10 shots to count at 200, 300 and 500 yards. Only

iron sights could be used and no rests were allowed.

In contrast to the corresponding date in 2012, the weather was fine and warm, with a cloudless blue sky, although accompanied by a fresh to strong wind, blowing up the range from 6 o'clock or veering from the right. During the morning shoot, the wind remained strong and fishtailing, gradually decreasing and steadying as the day progressed. At 200 and 300 yards, the wind strength varied from zero to seven minutes right, but the greater exposure of the 500-yard firing point meant the allowance required there increased up to about 12 minutes in the morning, falling to between five and eight minutes by the end of the afternoon. Judging it was difficult as there were no flags, so one had to rely on fall of shot. The



five sighting shots were really necessary, particularly at 500 yards, where several competitors had difficulty in finding the target and staying on it.

Happily, the four beautiful trophies (for 200, 300, 500 yards and the Aggregate) were all won by different competitors, and were presented when we met for drinks afterwards at the Peveril of the Peak Hotel, just behind the range. The meeting proved to be a great success and demonstrated yet again the practicability and enjoyment of shooting at long ranges with .22RF rifles. Many thanks are due to Alan Pidcock of Matlock & District Rifle Club for organising the meeting.

Later in the autumn, on Saturday 9 November, an informal shoot was held at Bisley. There were 23 entries and, after blow-off and practice shots, the



course of fire was two convertible sighters and 20 to count at 200 and 300 yards (200 yards on Short Siberia and 300 on Century Range 18). Unfortunately, the weather was far from ideal as drizzle fell for the second detail at 200 yards and most of the afternoon at 300, although it dried up towards the end. However, there was almost no wind (zero to one right at 200 yards; two left to a half right at 300), and despite the uncomfortable conditions, scoring was high on the 300-yard TR targets which were used at both distances. The match was won emphatically by John Mead of Ferndown, Bournemouth, who scored 99 and 91 for

an excellent aggregate of 190 ex 200, five points clear of the field.

Lunch was kindly provided by the Army TR Club, who also hosted a drinks reception afterwards at which all competitors received a liquid prize. We understand the NRA intends to hold another long range .22RF shoot, similar to last year's Long Range Smallbore Trial, at Bisley on 26-27 April. Arrangements are still being planned but the course of fire is expected to be 10 or 15 shots at 200, 300, 400 and possibly 500 yards, on standard NRA TR targets up to 300 yards and 600 yard targets for the longer distances. Details will be posted at www.nra.org.uk in due course.

NRA 100

The NRA 100 competition is a three-positional shoot at 200 yards on the decimal target, which is scaled from 300m. We shoot up to four sighters and 10 to count in each position. We are still using the traditional prone, standing, kneeling (or sitting) order. Each club chooses when to shoot during the year; those fortunate enough to have light wind conditions invariably have higher scores. Congratulations to Adam Leech on another fine performance. This year we were pleased to see three newcomers to the competition – well done to Zoe Northam, Richard Billington and Sabah Karim. Sabah deserves a special mention because there wasn't time for him to shoot the last position.





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Inspiring Shooters

Liz Woodall of British Shooting explains exactly what the Disabled Shooting Project does



Since its inception in 2009, the Disabled Shooting Project has been doing whatever it can to promote and facilitate disabled target shooting. That involves spreading the word about how exceptionally disabled-friendly the sport is, helping disabled people take up target shooting, and helping existing shooters who have become less able to stay in it. Originally conceived and launched as an NSRA initiative, the project was taken over by British Shooting two years ago and is funded by Sport England. It now embraces all target shooting disciplines, at all levels below international, which is a large remit.

The DSP has been my full-time job for two years now and my time is divided between working from home, visiting shooting facilities, attending promotional events, taking part in meetings and running the DSP's own events. The people I work most closely with are the development officers at British Shooting, CPSA, NRA and NSRA. They are all members

of the DSP's working group, the remaining members of which are representative of various parts of the sport. F Class shooter Olaf Jones, the NRA's disability representative, is an enthusiastic and valued member of the working group, which meets roughly once a month.

We turn up at a number of promotional events each year, of which the most important are the NRA's

open pays and the British Shooting Show in February. In 2011/12 we ran the Disabled Shooting Year, which capitalised on interest generated by the London Paralympics. Last year we held six regional conferences and a workshop conference to explore opportunities for intellectual disabilities in target shooting. The highlight of 2013 was our first Disabled Shooting Gala and presentation of the inaugural Disabled Shooting Awards.

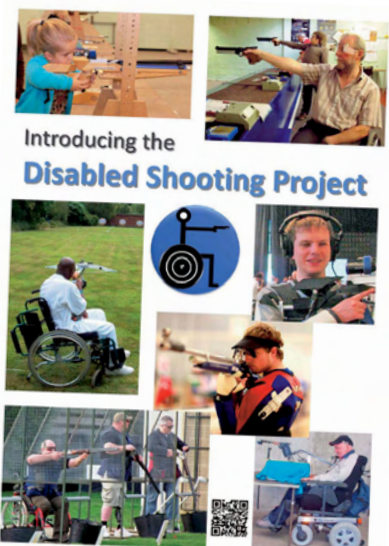
The facilitating part of what we do covers all areas of target shooting. The front line work is fielding enquiries from individuals – both those already in the sport and those interested in taking it up – and from clubs and shooting facilities. This involves giving out masses of information and advice, as well as encouragement to set off boldly into new territory.

A number of initiatives in key areas of the sport have helped in many ways. A pan-discipline coaching module is close to completion, and we are working hard to

develop a range of coaching resources. Our Clubs Scheme, launched last September, is designed firstly to identify the places where those who are disabled or less able can be catered for, secondly to encourage more facilities to welcome such shooters, and thirdly to recognise the efforts of those clubs that do as much as they can in this area. One of the most popular DSP initiatives is our extensive information and guidance on funding. We are delighted that it helped grassroots target shooting to receive a total of £287,087 from Sport England in 2013.

Other areas in hand are development of equipment, guidance for range officers, training for disabled shooters' assistants, building up a cohort of volunteers, and significant expansion of the range of competitions open to disabled shooters at all levels. In between all this, we are liaising as much as possible with the national governing bodies, and working with the principal bodies in disability sport.

The message of this article is that the DSP is here to help, right across the whole sport, with anything that involves disabled or less-able people and target shooting. In return, anything that anyone else can do to help our work along is most welcome – it's a very good cause! ■



NRA Competitions

Something NRA members can easily help with is promotion of the NRA Adaptive Shoot on 2 July 2014. This will again have civilian as well as military classes, and it is a great day's shooting. The programme offers three disciplines at 100 yards with a .223 straight-pull AR15 rifle, and a McQueen sniper shoot with a .308 bolt-action Desert Tactical rifle. It is open to both experienced shooters and novices, so please encourage everyone with a disability to come along and take part.

Disciplines

Don't know your TR from your TS?
Let our discipline reps
be your guide...

Are
Good for
you



Team England were victorious in the 2013 Elcho

MATCH RIFLE

Match Rifle can be thought of as an extreme, experimental version of Target Rifle. While the same calibres are permitted, Match Rifle starts at 1000 yards where TR finishes, and goes up to 1200 yards. Telescopic sights are permitted, and unlike TR, a rest may be used to steady the hand supporting the rifle. A sling is also an option but the rifle may not be directly supported by a rest or bipod. While most people shoot Match Rifle prone, a sizeable minority shoot supine, and a small number – who are unable for medical reasons to shoot prone or supine – shoot seated at tables.

Match Rifle offers a variety of challenges, and shooters are drawn to it for different reasons. Some enjoy experimenting with the intention of optimising their rifle or ammunition. It's easy to start Match Rifle by attaching a telescopic sight to a target rifle, and progressing from there. Others

enjoy the challenge provided by the wind at MR distances – every day is different, and sudden wind changes can often be sufficient to blow shots off the 10in wide NRA Long Range Target. The satisfaction of spotting such a change, adjusting the sights appropriately, and successfully scoring a "bull" can be enormous.

Among the principal annual events are the Hopton Aggregate, the MR equivalent of the TR 'Grand Aggregate', which is shot at Bisley from First Saturday to First Tuesday of the Imperial Meeting. On First Wednesday there is the Elcho, a historic match between teams of eight representing England, Scotland, Ireland and Wales. There is also a Spring Meeting (10-11 May) and an Autumn Meeting (27-28 September), both

organised by the English Eight Club at Bisley. The National Rifle Club of Scotland holds its Autumn Open Meeting at a scenic and challenging range at Blair Atholl on 6-7 September. A number of other events – for individuals and teams – are organised by various clubs and take place at Bisley between spring and autumn.

Alex Cargill Thompson

MULTI-GUN

The newest of the NRA's growing repertoire of disciplines, multi-gun started in the early 1980s in Colorado. Events aimed at improving service personnel's judgemental shooting morphed into a high-speed sport that is rapidly growing in popularity. Introduced to the UK by the members of four4islands, the events had to be modified to suit the equipment available. Out went the high-capacity .40 pistols and in came lightweight .22 rifles. The shotguns thankfully remained the same, albeit with longer barrels. The basic ethos of multi-gun is that it's not just about accuracy – speed plays a major part, though missing is heavily penalised. The targets themselves consist of paper "roundel" targets and a variety of



Adam Williams competing at last May's Multi-Gun Match



The Imperial Meeting is the biggest Target Rifle event in the world



knock-down steel targets and mechanisms.

What makes it so different is that the shooter sometimes has to choose which firearm to use to shoot the targets. While this is difficult to work into the stages on most ranges, it adds to the excitement when we can. Most stages involve the use of both a .22 rifle and a shotgun, though sometimes a .223 rifle is added to the mix. Those wishing to shoot a .22 LBP are encouraged – this is a trend we want to promote.

Two matches were trialled last year at Bisley. The first was a mixture of F4i, CSR and Gallery shooters with 40 competitors attending to try something new. The firearms used were a mixture of .22 rifles or LBPs, 12-bore shotguns and a staged .223 rifle supplied by Bradley Arms. The second match was F4i v CSR, with 17 shooters on each side. The action was fast with some hard stages featuring moving targets. In the end CSR won and an excellent trophy was presented in the OSM after a well-deserved meal. Though not yet a regular feature of the Bisley calendar, a growing number of clubs are running events

which this looks set to continue.

More information is available at www.four4islands.org or by emailing targetshotgun@nra.org

James Harris

TARGET RIFLE

Target Rifle continues the tradition of the Imperial Meeting, established in 1860, bringing with it the right to shoot for Her Majesty the Queen's Prize. It remains the largest discipline controlled by the NRA, and the one with the widest international following. Its devotees will tell you that it involves a balanced mix of all the factors that make up marksmanship: control of the firearm, accurate position and hold, precision sighting, controlled shot release, technical competence, concentration, mental discipline, and accurate appreciation of the effects of conditions.

To compete in TR you need a target rifle and the kit to go with it – the basic requirements being a sling, glove, ear

defenders, spotting scope, scorebook and pencil. TR competitions are usually shot at some combination of 300, 500, 600, 900 and 1000 yards, or the metric equivalents, in the prone position at a static round-bull target. Each shot is fired in a 45-second time bracket and each shot is scored separately. Competitors shoot two or three to a target and keep score for each other. A single competition normally consists of two sighting shots and 10 or 15 scoring shots, though there are exceptions. Each competition has its own prizes, and there are prizes for groups of competitions (aggregates) taken together.

TR competitions start at individual level and are found at every level from the smallest club day to the World Championships. The biggest event in the UK, and by number of competitors in the world, is the Imperial Meeting. All-comers are welcome, and one of the great joys is that the ordinary club shooter will likely find themselves shooting with and learning from elite international competitors. Don't



Jon Holloway at last year's Target Shotgun Festival...



...while Paul Elliot takes on stage four at the same event

be scared about being out of your depth – there are plenty of volunteers who help newcomers find their way around the Imperial Meeting.

Nigel Cole-Hawkins

TARGET SHOTGUN

Target Shotgun (TS) is one of the newest disciplines overseen by the NRA in its role as National Governing Body (NGB) for the sport and also one of the most varied. The simplest way to describe it is using shotguns for shooting anything that isn't "furry, feathered or flying through the air!" Specifically aimed at high capacity (FAC-rated) shotguns, the NRA has taken the lead in supporting owners of such firearms and providing events for them to participate in. The rulebook (find it on the NRA website under Downloads) covers a wide range of events such as:

GR&P Shotgun – where events are carried out broadly in line with the GR&P rulebook with minor amendments to suit the firearms and ammunition types used, such as T&P 1 and Multi-Target. They are mainly shot with FAC shotguns and solid slug. These are precision events, and while the targets are only visible for a short period of time, it is sufficient for accurate shooting, provided you have practised a bit. The smallest scoring ring is not much larger than the slug itself and at 25m presents a challenge to even the best. As yet no one has ever achieved a highest possible score though some have come close with 299 ex 300.

Action Shotgun – a subset of Target Shotgun where the stages/events are

designed using disparate and non-repeated target arrangements and stage conditions to test accuracy and proficiency with a shotgun. The shooter has to move around the range and may have to change stance to shoot the targets, which may include steel plates, Texas stars, plate racks, clays and skittles. Most of these events use birdshot ammunition only, and as such need not be shot on approved ranges, thus allowing a greater number of clubs to participate in them.

This year at Bisley there will be the four TS meetings as part of the GR&P meetings and the Shotgun Festival in November, which will include the NRA Practical Shotgun Championships. Other events are in the pipeline and once range space is confirmed then the dates will be announced.

For more details of how to get involved contact targetshotgun@nra.org.uk

James Harris

GALLERY RIFLE

The competitive Gallery Rifle season for 2014 is largely set with a more or less 50:50 split between events held at Bisley and events held elsewhere throughout the country. The calendar of events can be found at galleryrifle.com and galleryrifle.co.uk.

The season traditionally kicks off at the Spring Action Weekend and runs throughout the season until the end of October, with plenty on offer. Intermingled with what could be described as the 'normal' circuit offerings are three IGRF international matches and at



Historic Arms: In the spirit of the original

least one Home Countries National Match. These events take Gallery Rifle shooting to the highest standards with shooters from not just the British Isles but also Ireland, Germany, South Africa and Australia competing in skill at arms in the discipline we call Gallery Rifle and Pistol.

Shooting is all about competing against yourself, overcoming your usual self-imposed barriers and bettering your previous scores. On the competitive circuit, all you have to do is turn up and shoot. For the first time in 2013 we ran a ranking table for the most popular classified events of Timed and Precision 1, Multi-Target and 1500 for all four gun types. This was published on galleryrifle.com after each classified event throughout the year, with the final ranking table fixed in all its glory after the Autumn Action Weekend shoot at the end of October.

Grab some shooting colleagues and friends, pick an event or two and turn up to shoot. I count no fewer than 20 open Gallery Rifle type shoots in 2014. While not all of them are fully classified, the competitive element is still very much alive.

Neil Francis

HISTORIC AND CLASSIC ARMS

Our discipline does everything other disciplines do – Target Rifle, Service Rifle, Sporting Rifle and others – except we do it with historic arms. For competition



The Spring Action Weekend kicks off the Gallery Rifle season

purposes they are split into dateline periods: Vintage pre-1891 (black powder); Classic pre-1919; Veteran 1919-1946 and certain post-1946 rifles.

Many can also compete in modern disciplines where they qualify – a Cadet .310 Rifle c. 1910 is quite capable of winning a modern GR 50m precision event! All shooting, clothing and equipment, is done “in the spirit of the original”, thus keeping as close as possible to the original item, but allowing modern reproductions. The appeal of Historic Arms is varied. Some are beautifully made, while others feature a clever design. Commercial ammunition is now available for many historic arms, but recreating ammunition for others can provide another challenge. Reloading will produce obsolete calibres, and can also reduce costs, as can using cast lead bullets with reduced loads. It is therefore not expensive to take up Historic Arms as a discipline.

There are many opportunities to shoot during the year at local club shoots,

and the more specialised clubs offer competitions throughout the year, such as the Historical Breechloading Smallarms Association (HBSA) and for the Enfield Rifle, the Lee Enfield Rifle Association (LERA). They are well worth joining, particularly for the expertise available to you from their very knowledgeable members.

The NRA hosts two major open events

during the year. In July, as part of the Imperial Meeting there is the Imperial Historic Arms Meeting (distances up to 200yards), while at the end of October the main event, the Trafalgar Meeting. To get a flavour of the matches available visit the Downloads page on the NRA website and click on the Classics & Historics Meetings Match List.



ENTERING THE IMPERIAL

With entry forms in this issue of the Journal, Antony Ringer explains all you need to know about taking part in the 2014 Imperial Meeting

Spring is upon us and it is time to plan our Target Rifle Shooting season. Many will use the early summer weekends to hone their skills for the second and third weeks in July, the Imperial Meeting. I urge all those Target Rifle shooters who have not experienced the Imperial Meeting to simply take the plunge and have a go. There is no need to shoot all the competitions but please try some.

With this issue of the Journal is a paper entry form for the meeting, while entries can also be made online. The form can look daunting for a beginner, but I can assure you, entry has become a lot easier in recent years. Assistance with the entry form can be found on the NRA website. Under competitions, go to Imperial Meeting and then to Imperial information and then scroll to the bottom to locate the Imperial Meeting factsheet. Entries should be made

by 31 May. Having made your entry, it pays to start thinking about July. This includes your accommodation – caravans may be available or huts on the camp.

Once your entry is in, you will receive a receipt of entry. When you arrive at Bisley in July, you will need to take your receipt and your Shooter Certification Card to the NRA office. Here you will be issued with your squadding cards and details. At the meeting you will require a green sticker on the barrel of your rifle. The sticker indicates that the rifle complies with weight and various measurements. Your gunsmith may have already applied one for you but if not, don't worry as facilities are there in the range office. I would advise you travel with your firearms certificate when transporting your rifle at all times.

Having made the commitment to shoot some or all of the ranges at the Imperial

Meeting, I would advise you have a weekend's shooting at all of the ranges with ammunition that is similar to the meeting issue ammunition. It will pay dividends to make a meticulous note of your elevations for each range. It will be extremely good for your confidence if you are also happy with wind zero.

Have your rifle serviced or checked over, to look at the bedding and screws, grease the bolt and pay particular attention to the movement of your sights. I would then advise you to check the stitching on your sling, elbow pads on your jacket and your glove. All should be regularly maintained. Please also remember scorecards and earmuffs if you have used them for another activity throughout the year.

Have a go at the Imperial Meeting, make your entry and then prepare yourself. It is a great experience on so many levels. ■

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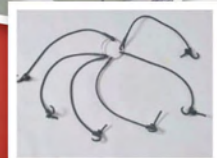
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The NRA and Sir Arthur Conan Doyle

Christopher C. Bunch investigates why Bisley and the man behind Sherlock Holmes are inextricably linked

The Conan Doyle Prize has been shot for during each Annual Meeting since 1905. It is now included in the Individual Target Rifle class of competitions with a first prize consisting of a Challenge statuette (in the shape of a volunteer rifleman), an NRA silver medal and a sum of money. The question has been asked many times – how did Sir Arthur Conan Doyle, one of Britain's best known authors, come to be associated with a shooting prize at Bisley? As recorded every year in the 'Bible' the statuette was presented in 1906, but we have to go back further, to the Boer War, that lasted from 1899 until 1902, in order to find out more about its true origin.

By the last decade of the 19th century, Conan Doyle had earned great fame as a writer, chiefly from his Sherlock Holmes stories, although he had originally qualified as a Doctor of Medicine and had been in practice. When the South African war broke out in October 1899, Conan Doyle, like most people in Britain, firmly believed that these 'farmers' would not make much

headway against the professionally trained British Army. But, in December 1899, after the British had undergone three consecutive major defeats, Conan Doyle became so concerned that he immediately offered his services as a volunteer.



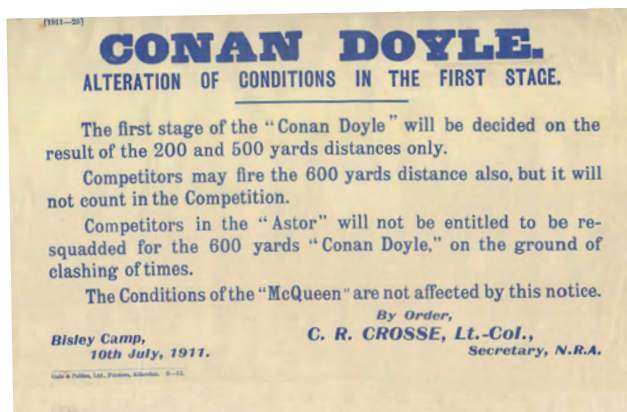
However, his lack of military experience and age were against him and he was rejected. He formulated the revolutionary idea of sending volunteers to the front who, like the Boers, could ride as well as shoot. The Boers, of course, had grown up in an environment where they had become experts in both. Conan Doyle remained determined to get into the action and his opportunity came when he volunteered to serve as a surgeon in a volunteer field hospital, subscribed for by

public spirited citizens, that was being sent out by his friend, the noted philanthropist John Langman.

The NRA had also quickly grasped the importance of accurate shooting and so, on 3 January 1900, at the height of this disastrous campaign, the General Committee passed the following important resolution:-

'A discussion on the subject of Rifle Clubs then took place, and it was resolved, on the motion of Major Fremantle, seconded





by Mr. Whitehead,
"That the War in South Africa, having proved the great value of an irregular force of skilled marksmen for purposes of National Defence, the Council consider it very important that the formation of Rifle Clubs should be promoted throughout the Kingdom, with the special object of making rifle practice accessible to the general population and will be glad to afford every assistance in the formation of such Clubs and will welcome any suggestions in furtherance of this object."

It was also ordered that this Resolution be notified to the public press at once.'

In early 1900 Conan Doyle returned from South Africa where he had been able to observe some of the action and had become impressed by the skill of the 'amateur' Boers against the British Army. In August, full of enthusiasm about his ideas for the formation of Civilian Rifle Clubs in Britain, he approached the NRA where the groundwork had already been laid earlier in the year. He was then requested to join the NRA's newly formed Rifle Club Committee, where he became an influential member, and also founded a Rifle Club at his home, "Undershaw", which became affiliated to the NRA in 1901, the same year that he received his knighthood.

In 1902 William Waldorf Astor of Cliveden, who had also noted the military problems exposed by the war, wrote a letter to the chairman of the NRA, Sir Henry Fletcher, in which he stated that "the war in South Africa had taught the importance of training every able-bodied Englishman in the use of the rifle" and noted that although the NRA had done much to

encourage the formation of Rifle Clubs, there was a want of means. He concluded his letter with a handsome offer of £10,000 to the NRA for the purpose, which the Association gratefully accepted, putting it in the hands of Trustees with the administration under the control of the Clubs Committee of the

Council. The original trustees included Conan Doyle among their number.

In 1903, obviously heavily influenced by these developments, Conan Doyle produced a draft paper on the formation of 'Civilian Rifle Clubs' and sent a copy to Lt. Col Crosse, the NRA Secretary.

Ideas were so influential in the forming of these rifle clubs that his own became known as the 'mother' club. By 1906 there were 25,000 members in NRA-affiliated clubs and a similar number in unaffiliated clubs. His own club also continued to develop and, in 1903, Sir John Langman, presented Conan Doyle with a silver Challenge statuette of a typical volunteer rifleman, named after him to commemorate his achievements in encouraging rifle shooting among civilians. The first competition for this prize was shot for that year and was regarded as significant enough to be reported in *The Times*.

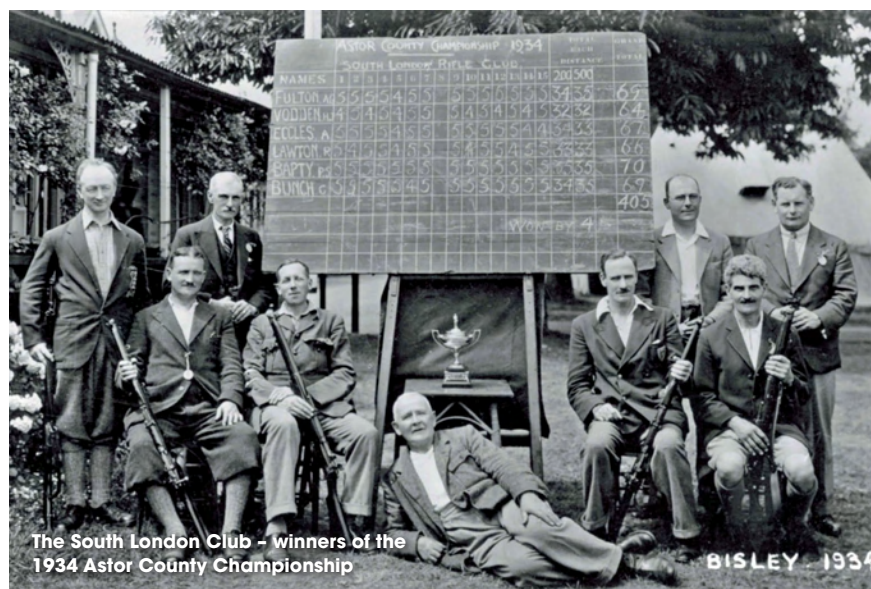
About 20 local clubs were represented with the Undershaw 'home' team consisting

of 'Sir A. Conan Doyle, the landlord and the barman of the village inn, and a working electrical engineer'. The eventual winners were the four champions of the London and South Western Railway Company, by a single point over Conan Doyle's team.

In 1906 Conan Doyle's first wife, 'Touie', died, causing him to sell Undershaw and move to a new home in Kent with his second wife, Jean. With the Undershaw connection now broken, he presented this same Challenge statuette to the NRA as the first prize in the Conan Doyle Competition. This competition, bearing his name, had been originally established as a cash prize in 1905 at the specific request of the Association. The statuette was pictured in the NRA Report for 1906 with a caption confirming that it had been presented to the Association by Conan Doyle himself.

Conan Doyle, who had been awarded an Honorary Life Membership in 1905, remained on the Association's Rifle Club Committee for a number of years. When he died, in 1930, the Report for the year contained a short tribute to him in the obituaries – 'Sir Arthur Conan Doyle, who gave great assistance to the Association in connection with the inauguration of the Rifle Club movement in 1900.' ■

Note: All the illustrations contained in the article are taken from original documents held in the Museum of the NRA at Bisley. I am most grateful to Ted Molyneux, the Hon. Curator, for his assistance in the preparation of this article.



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A035	308 SP 180gr	£62.80
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A346	7,5x54 French FMJ 139gr	£68.40
A345	7,5x55 Swiss FMJ BT 174gr	£68.40
A094	30-06 FMJ 150gr	£68.40
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A166	9mm Luger 147gr FMJ	£28.50
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A339	357 Magnum FPJ 158gr	£42.80
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C062	30-06 NEW	£43.60
C125	303 British	£39.00
C421	338 Lapua Magnum NEW	£96.50
C111	357 Magnum NEW	£15.55
C154	44 Magnum	£28.90
C118	6,5 x 52 Carcano	£50.30
C083	6,5 x 55 Swedish	£38.60
C027	270 Winchester	£35.60
C345	7,5 x 55 Swiss	£43.60
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B010	30 FMJ RN 110gr	£18.15
B009	30 FMJ BT 145gr	£18.15
B007	30 FMJ 139gr	£18.15
B099	30 FMJ 150gr	£18.15
B496	308 Match HPBT 168gr	£24.20
B345	30 FMJ BT 174gr	£18.20
B366	30 FMJ BT 175gr	£18.20
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An Introduction to Handloading

PART 2 | PRESSES & DIES

So, you've decided to handload. Your first question will likely be, "What tools do I need?" or, "What's the best press?" Well, opinions on the ideal handloading toolkit range from a cardboard box full of bits that are occasionally set up on the kitchen table, to a fully equipped workshop.

No matter what the new handloader ends up buying, the same tasks are undertaken. Assuming we start with a case that has been fired in your rifle, its dimensions have expanded to fit the chamber under 60,000psi peak pressure, then contracted marginally as the bullet exited and pressures dissipated. Its body dimensions will be larger than when new, and its neck won't hold a bullet. The case exterior is cleaned of powder fouling, lubricated and taken to the reloading press, which has had the appropriate model of snap-in shellholder and sizing die for that cartridge model installed. This is inserted into the shellholder and the press handle operated firmly and



The Harrell's Precision portable press

smoothly. Press operation pushes the case into the resizing die, which at the very least reduces its neck diameter so it will hold a bullet securely. More commonly, a die is employed that reduces neck and body diameters while resetting the shoulder position (full-length sizing or FLS). The spent primer is then ejected by the die.

After resizing, lubricant and primer fouling are removed, and the case is measured to check it remains within the maximum allowed length. If more, its neck is cut back

in a tool that looks like a miniature lathe. A small hand cutter then chamfers the case-mouth edges, which is also done to new cases and factory ammunition brass on its first reload. After inspection, the case is ready to receive fresh components, starting with the primer, which can also be installed on most presses during resizing. But it is much better done subsequently with a handheld or small bench-mounted priming tool.

Having previously ascertained an appropriate propellant grade and the weight to be employed, the necessary charge is produced and poured into the primed case.



Medium and large O-frame presses: the Hornady L-N-L 007 (left) and Lee Classic Cast

This entails the use of some sort of powder measure, specialised weighing scales, and a funnel whose outlet fits the case-mouth and neck closely. Finally, the sized, primed, and charged case is returned to the press to have a new bullet installed using a second die, called a seating or seater type with inspection. A final wipe-over, and box-labelling or record-keeping finishes things off.

The Press

The heart of a handloading suite is the press and dies, and good initial choices pay dividends. It's not just money, as the larger, more powerful presses need to be bolted onto a robust, stable surface that'll not only support 20lb+ of cast iron hanging



The Lee Hand Press with the company's Collet die set



A high-pressure resizing lubricant is usually needed



over one edge, but also cope with the considerable downwards torque involved in a full-length sizing operation. Workmate-type portable benches are suitable for small presses and light-duty resizing, but aren't heavy or rigid enough to cope with even medium-sized models.

The size, weight and power of the press are partly determined by its type, partly by the resizing task. Bullet seating is light work that barely exercises even small presses. Most prone and benchrest target shooters use a 'single-station' press. This holds one die and tasks are undertaken as batch operations, replacing the die on starting a new job, with cases kept in a loading block between operations. There are multi-station presses too. The most complex 'progressive' models

hold several dies and a powder dispenser so each pull of the operating handle produces a finished round. Tyro handloaders are strongly advised to stick to single-station types, as less can go wrong and they usually produce more concentric rounds.

As far as size, weight, rigidity, and mechanical leverage go, medium to large O-frame models lie at the top end of these variables but undertake heavy-duty sizing with ease. Accompanied by little stress and minimal frame flex, they keep everything nice and concentric, while also reducing operator workload. The iconic model in this category is the RCBS Rockchucker Supreme, the newest version of a design that has been in continuous production for over 40 years. It's a powerful ambidextrous tool that can handle magnum rifle cartridges with ease, never mind those in the .308 Win class. Redding's Big Boss II and Ultramag, Lyman's Crusher II and maybe the Lee Classic Cast are in the same size and performance bracket. RCBS, Lee, Redding, and Hornady make mid-sized 'O' frame types too that are a few pounds lighter but easily strong enough for most cartridges. The first two also make baby presses for light-duty work: the RCBS Partner and Lee Reloader Press are bench-mounted, while the Lee Hand Press can be operated in your lap while seated.

So what do you need? If you have the money, space and a suitably heavy table or bench, I'd advise going over rather than under specification. While the Redding Boss or Hornady 007 are well matched to .308 size cartridges, a larger model does no harm other than to your wallet – and maybe your back on lifting it out of its box! If you're strapped for space and facilities, the baby presses and Lee Hand Press can work well as long as you restrict them to light-work full-length sizing. The workload is determined by the size of the case, how heavily it's constructed, and crucially, the rifle's chamber dimensions. The Harrell's Precision portable C-frame press (photograph) has a little 6PPC case in situ while the die is a custom example, machined to minimally resize cases fired in a specialised bench-rest rifle, whose cases are a supremely neat fit in its chamber. This operation requires so little effort that a modest table or Workmate supports the clamp-fitting press. But a .308 size case would likely overtax this mounting



An RCBS Rockchucker with Forster SL sizing die installed

arrangement unless it had been fired in an exceptionally tightly dimensioned chamber.

Dies

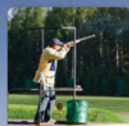
The American tool manufacturers produce a range of die models and sets in various forms for several hundred cartridges. Prices for off-the-shelf two-die sets range from a little over £30 to more than £200 depending on maker, specification, and sales numbers. Dies for obsolescent or unusual cartridges with limited demand cost twice, sometimes three times as much as for common numbers like .223 Rem and .308 Win, and specially-made custom sets even more. Expect to pay around £35 for a Lee two-die set and maybe £10-15 more for RCBS, Lyman, Hornady, and Redding equivalents. Lee also supplies a shellholder with most of its sets which would set you back a few more pounds with other makes.

Nobody makes poor dies, and all produce concentric ammunition in a good press. Lee also makes the clever Collet neck-sizer die that squeezes the case-neck onto a mandrel and requires no lubrication – ideally suited to the Lee hand press. If you get one of these, buy it as part of a three-tool Deluxe Rifle Die Set that includes an FL sizer too. The case shoulder moves forwards over two or three firing cycles so it becomes a slight crush-fit in the chamber if neck-sized each time.

Laurie Holland ■

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The London and Middlesex Rifle Club owes a great debt to Sir Robert Inglis, says Brian Cudby

In 1901 Robert William Inglis (later to become Sir R.W. Inglis) was chairman of the London Stock Exchange. During that year he founded the Stock Exchange Rifle Club and used his financial resources to build and fit out an indoor .22 rifle range in the City of London. Many rifle clubs were formed at this time – to ensure that we did not suffer the same marksmanship problems we suffered during the Boer War.

Sir R.W. Inglis had a distinguished military career and it is worth noting that his great grandfather, Colonel William Inglis, was a man of great military fame. He won his most famous battle honour in May 1811 when he commanded the Middlesex regiment, known as the "Duke of Cambridge's own". This battle was in the Peninsula at Albuera where his regiment, the 57th, occupied an important position exposed to deadly fire. Colonel William Inglis cheered on his



soldiers with the words, "Die hard, 57th, die hard", hence their nickname of the 'Die-hards'. Out of 579 men, 23 officers and 415 rank and file were killed or wounded, including Colonel William Inglis. The Die-hards have held many annual dinners in the LMRA clubhouse.

By 1906 Sir R.W. Inglis decided the Stock Exchange Rifle Club also needed a home at Bisley. At some time in 1907 the

Middlesex Rifle Association (a purely military Association) put forward the idea to build a clubhouse at Bisley. They were looking to raise £4,500 (nearly £300,000 in today's money) to achieve this end. This was a staggering amount and more than had been spent on the relatively simple NRA building. There was a problem obtaining the funds and we guess that Sir R.W. Inglis discovered this and stepped in. This was something he was very good at. So he negotiated a deal with the Middlesex Rifle Association.

On 14 January 1908 the agreement was struck between 'The Middlesex Rifle Association of 40 Chancery Lane in the County of London' and 'The Stock Exchange Rifle Club of the Stock Exchange in the County of London'.

"For the considerations hereinafter mentioned the Association agrees to erect at its own expense in a good and workmanlike manner at a cost of not less than Three thousand pounds [including



equipping] on some safe and convenient site between the two hundred yards and five hundred yards firing points on the Rifle Range at Bisley in the County of Surrey a Club house with suitable and sufficient accommodation for the purposes hereinafter appearing and to complete the same ready for occupation on or before the thirty-first day of March 1908 and thenceforth to keep such Clubhouse open from at least the first day of April to at least the 30th day of September in each year during the continuance of this Agreement or of any grant to be made in pursuance hereof."

The funding was made through the issue of £2,500 (current value of around £200,000) of debentures of which Sir R.W. Inglis was to take up £2,000 from his own resources. These debentures he then donated to the SERC. The remaining debentures were taken by the IBIS Rifle Club and the Honourable Artillery Company. The architect was Charles Lancaster Parkinson, of Bedford Row, London.

Issues were raised from NRA Council members surrounding the subletting of the rooms in the clubhouse for other clubs to use, and we have copies of the letters between the NRA and the LMRA about this topic. The clubhouse was opened in 1908 by the Duke of Bedford, then Lord Lieutenant of Middlesex, and at some point between the months of January and May 2008, the name was changed from the

Middlesex Rifle Association to the London & Middlesex Rifle Association.

Today the LMRA is made up of members plus affiliated clubs, schools and cadet units. We are open seven days a week for bar, catering and accommodation in the clubhouse and in our motel, St. George's Lodge. We also offer conference and banqueting facilities.

For shooting we run 25 team match days per year, plus we offer a number of spoon target days each month. We have an Open Meeting for TR and F Class shooters each year and the LMRA is the organising body for the counties of London and Middlesex, but we are open to shooters from all counties. LMRA run a Schools Meeting and a Cadets Meeting each year, a three-round league competition, for rifle clubs, plus individual and team match rifle competitions. We also run the Easter Meeting, by rotation with other Bisley clubs and we have away matches in Jersey, Guernsey, Altcar, Ireland and Scotland. For beginners we offer access to rifles, jackets, and slings free of charge, and we have a full probationary training program, with two new member Open Days each year.

The club prides itself on its active and friendly membership and all members benefit from the excellent club facilities and

friendly community at the LMRA. For new members, a great way to meet others is to attend one of our coaching courses or take part in one of our club shoots. Members benefit from comfortable bars, restaurant and accommodation facilities all year round, with free Wi-Fi. Members and affiliated clubs can also rent lockers and use our rifle cleaning facilities.

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Under the bridge

Two rifle clubs have joined forces to complete a project like no other: a fully functional 25-metre range underneath London Bridge. Colin Fallon pays it a visit

Opening a new rifle range is no easy task – and that’s putting it lightly. Just the thought of the mountains of paperwork required to gain approval for the range is enough to put most people off. The tiny number of ranges that have opened in the UK in the last 30 years is testament to this. But what about opening a range in the centre of London – in one of its most iconic locations, in fact – and building the premises from scratch using mostly volunteer work?

Not the likeliest of achievements – but one that the Stock Exchange Rifle Club and Marylebone Rifle and Pistol Club have now realised. The two clubs now call the range home after completing work in 2013 and opening the range in a ceremony on 30 October hosted by Kate Hoey MP.

SERC and MRPC are two clubs with a long history, having provided the nation with Olympic and Commonwealth athletes as well as many GB, England, Scotland, Wales and Ireland shots. This new chapter in their histories must be one of the most unexpected – but it’s certainly welcome. For the clubs, it’s the culmination of a five-year search for a new home after the range they previously shared at St Alphage House was closed in 2008 for redevelopment. During the intervening period, they shot only at Bisley.

But as the SERC’s president Brian Cudby explained, the search had been going on for much longer than that – over 20 years, in fact. It started in 1991, when he drew up a list of requirements for a newly redeveloped range. At that point, the lease on St Alphage House was due to expire in 1995. The property had been bought by the Corporation of London, so there were numerous rumours about redevelopment. Plans were drawn up to expand the range to the floor above, converting the space into more shooting lanes.

But nothing was ever finalised, and the club ended up continuing at Alphage without a lease, until an extension was eventually signed in 2000. By now, the search for a new location was proceeding at speed, with members viewing a range of commercial properties in London. In 2001 the clubs asked for £1m of lottery funding to develop one of these locations, but the application was rejected.

By now, the outlook was grim. It was confirmed that St Alphage House was to be redeveloped and the office space vacated, and the clubs prepared to move out. All the while, they were still assessing potential new venues, inevitably finding them unworkable. It wasn’t until August 2008 – five months after the clubs had moved to Bisley – that London Bridge was first mentioned. Even then, it took nearly two years before the idea progressed: “In July 2010 we were introduced to Maurice Swain at the City,” says Brian. “Then everything just took off. After 20 years of kissing many frogs, we finally found our new home.”



Kate Hoey MP fires the 'inaugural shot'



The result is a 25-metre, six-lane range under the southern footing of London Bridge, with additional airgun ranges and club room. It's clear the clubs haven't forgotten their histories in the move to the new premises, either – the club walls are adorned with news clippings, pictures of club meetings as early as 1911, and the SERC's 'grand old trophy'.

What's particularly notable from the stories told at the range's official opening, though, is the community spirit involved in building it. Hundreds of hours of volunteer work went into the range, from the shooting facilities to fitting carpets and installing lighting. It's hard to pass any feature of the premises, from the firing points to the kitchen, without a club member telling you, "Yes, it took me four weeks to put that in..."

The range also benefited from support from the Mayor's Fund and the City, who provided the clubs with a £75,000 grant and a £400,000 investment respectively. In this respect the range's location was a stroke of fortune – if it had been just yards down the road, it could have been out of the City's jurisdiction. Nevertheless, work started on 30 January 2012, with an estimated finish by July. But the inevitable hold-ups occurred: "Thames Water delivered the wrong-size pipes," says Brian, "and the resulting hold-up ran into the Olympics and Paralympics. It wasn't resolved until September.



"On top of that, there were delays with the air conditioning as our plans had omitted the heating of the air being brought in. And there had also been delays getting the final lease contracts signed by the City."

But the delays finally subsided and the range opened to the clubs on 11 April, with Kate Hoey providing the ceremonial opening shot six months later. (It was an x-bull, of course.) No longer just restricted to stock exchange employees or Marylebone residents, the clubs welcome newcomers – indeed there was a contingent from the University of London Rifle Club present at the opening.

With all that done, the clubs can finally settle into their new home. But what advice do they have for anyone else considering a project of this scale? "I think our project was unique," says Brian, "and our advice would probably not suit another range-building project. But the key is to get the specification and design for the range itself correct, and to keep reviewing and questioning suppliers and architects until you are certain it can provide everything you need.

"The detail of the design specification is so important. Do not be pressured into starting the build project until everything has been defined."

Finally, I ask MRPC's Susan Bentley what the clubs' members will do with their newfound free time. "What free time? The work continues in improving the facilities at the new ranges and in the club room, as well as dealing with the pleasingly large number of new members attracted by the position of the new range." ■



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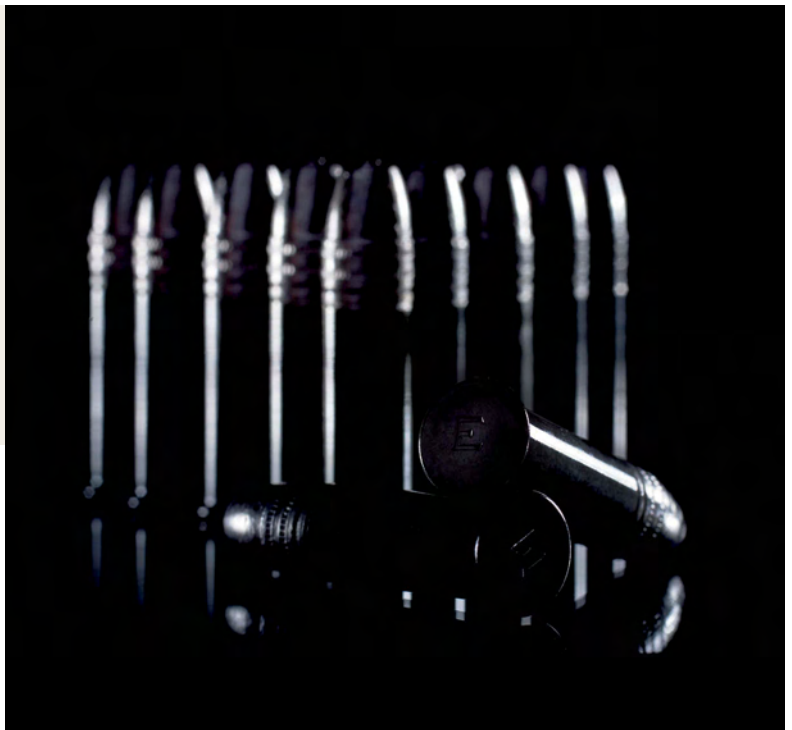
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3	D Wyld	922.45
4	J Morgan-Hosey	903.33
5	G Haywood	901.13

CSR WINTER LEAGUE 2013-14

5 January 2014

HISTORIC 1. J Drummond, 182; 2. D Cross, 181; 3. J Geering, 162; 4. A DeFreitas, 135; 5. R Ilius, 101

IRON 1. R Wightman, 300; 2. D Moran, 218; 3. S Clarke, 184; 4. W Daysh, 164

PRACTICAL OPTIC 1 = A Newberry, 329; 1 = M Camp, 329; 3 = N St Aubyn, 313; 3 = J Elliot, 313; 5. S Brown, 310

SERVICE OPTIC 1. P Cottrell, 329; 2. M Shipp, 320; 3. W Ellis, 319; 4. J Morgan-Hosey, 312; 5. S Drew, 309

1 February 2014

HISTORIC 1. J Geering, 224; 2. A DeFreitas, 204; 3. J Drummond, 199; 4. D Cross, 120; 5. R Ilius, 88

IRON 1. G Ellis, 341; 2. R Wightman, 322; 3. D Moran, 306; 4. W Daysh, 287; 5. L Collins, 202

PRACTICAL OPTIC 1. M Camp, 396; 2. A Newberry, 378; 3. C Hudson, 376; 4. D Green, 375; 5. N St Aubyn, 373

SERVICE OPTIC 1. P Cottrell, 412; 2. G Haywood, 408; 3. A Chapman, 401; 4 = P Hunter, 387; 4 = W Ellis, 387

MULTI-GUN MATCH – 15 & 16 FEBRUARY 2014			
STANDARD OPTICAL SIGHTS			
PLACE	NAME	TOTAL	
1	G Roberts	397.69	
2	J Holloway	430.61	
3	M Hale	460.51	
4	C Vale	468.22	
5	T Smith	470.41	
6	S Smith	472.61	
7	A Williams	481.27	
8	S Denton	483.03	
9	M Voles	492.01	
10	K Watson	493.46	
11	J Raistrick	520.59	
12	L Chisholm	527.16	
13	R Sanders	539.30	
14	R Burgess	540.27	
15	D Salter	541.80	
16	C Gamlin	545.98	
17	P Gibbon	554.52	
18	R Shelley	587.13	
19	C Hudson	592.86	
20	A Dreyer	598.80	
21	R Boelerna	693.63	
22	M Bensley	796.49	
OPEN			
1	J Thorne	408.78	
2	C Barr	417.12	
3	F Graham	587.75	
4	I Corrigan	652.32	
5	G Humphreys	682.40	
STANDARD IRON SIGHTS			
1	J Chambers	362.86	
2	D McChesney	424.04	
3	J Symes	433.41	
4	P Costa	533.85	
5	O Bloomfield	550.90	
6	S Ashton	644.34	
7	M Le Riche	645.57	
8	S Page	678.95	
NRA 100			
PLACE	NAME	CLUB	TOTAL
1	A Leech	Pumas RC	255
2	M Barr	Pumas RC	220
3	P Kelly	Warwickshire FC	212
4	C Painting	Pumas RC	196
5	S Wilson	32/61 SHG	187
6	Z Northam	SCSRC	187
7	J Dohoo	SCSRC	186
8	D Robinson	Pumas RC	184
9	R Billington	Pumas RC	183
10	P Diprose	SCSRC	182
11	J Thurley	27th London	178
12	M Pearson	27th London	165
13	J Wilson	32/61 SHG	157
14	S Karim	27th London	154
15	P Ewen	27th London	67
KEY: 27th London = 27th London (Putney), R.C; 32/61 SHG = 32nd/61st Surrey Home Guard Rifle and Pistol Club; SCSRC = Surrey County Scout Rifle Club			



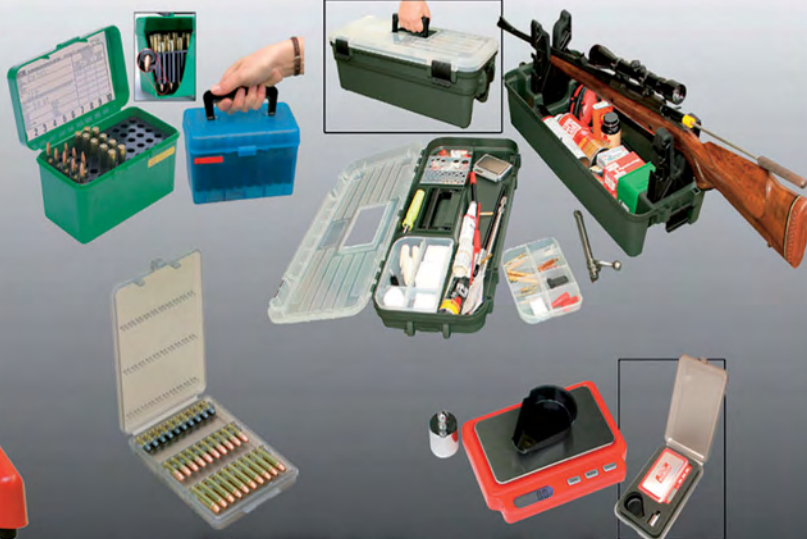


TURBUTT MEETING – 29 SEPTEMBER 2013

PLACE	NAME	CLUB	200 YDS	300 YDS	500 YDS	TOTAL
1	T Stubbins	Staveley	41	39	37	117
2	M Berry	Matlock & District	38	37	33	108
3	R Kenchington	North London	34	33	38	105
4	M Parkes	Clay Cross	41	37	27	105
5	B Stubbins	Staveley	46	35	22	103
6	N Doyle	Matlock & District	37	39	23	99
7	F McBain	Staveley	46	30	22	98
8	A Pidcock	Matlock & District	39	32	25	96
9	P Wright	Clay Cross	42	35	19	96
10	A Banner	Clay Cross	42	35	8	85
11	W Clarke	Staveley	38	36	9	83
12	F Page	Kingfisher	31	30	11	72
13	J Cole	Matlock & District	17	30	18	65
14	L Webster	Matlock & District	16	25	3	44

LONG RANGE .22RF – 9 NOVEMBER 2013

PLACE	NAME	CLUB	200 YDS	300 YDS	TOTAL
1	J Mead	Ferndown GC	99.14	91.03	190.17
2	R Kenchington	NLRC	97.16	88.06	185.22
3	R Hodgins	HBSA	98.09	86.02	184.11
4	P Wright	Staveley RC	98.12	80.02	178.14
5	J Robbins	Petworth RC	96.10	73.03	169.13
6	S Isherwood	HBSA/LERA	94.09	75.02	169.11
7	M Haselgrove	HBSA	97.08	72.03	169.11
8	M Silver	NRA	92.04	71.02	163.06
9	P Francis	Carshalton RC	92.07	70.03	162.10
10	S Edwards	Harwell TSC	81.03	77.01	158.04
11	Mrs C Silver	NRA	84.04	72.00	156.04
12	B Stubbins	Staveley RC	94.07	58.00	152.07
13	J Wilson	Wantage	83.06	64.02	147.08
14	J Selwyn-Smith	NRA	81.02	63.01	144.03
15	S Chamberlain	St Nicholas RPC	81.00	63.02	144.02
16	A Tate	Petworth RC	91.05	50.00	141.05
17	I Brown	Wandsworth FBRC	78.05	62.01	140.06
18	A Cattermole	Luton R&PC	85.03	53.00	138.03
19	M Parkes	Staveley RC	96.07	40.00	136.07
20	J McAllister	NLRC	25.05	78.00	103.05
21	M Lloyd	Bookham RC	62.03	40.01	102.04
22	C Paining	Pumas/Havant	97.09	0.00	97.09
23	G Ormerod	Luton R&PC	86.01	2.00	88.01



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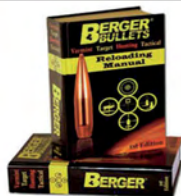
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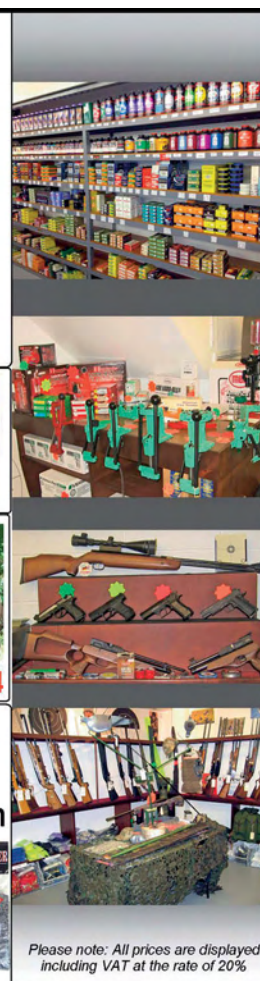
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Obituaries

CHRIS THACKER

18 MARCH 1953 –
29 OCTOBER 2013

Chris was a member of the East Barnet Shooting Club in Hertfordshire, which he joined approximately 30 years ago. He entered competitions via the club, and also at Bisley. During that time he won many medals and trophies, as well as qualifying as a Mastershot, and a coach. He also served on the committee at EBSC. Sadly his

last attendance at EBSC – he shot black powder that day – was during a few days' release from hospital last summer, where he had been undergoing chemotherapy for non-Hodgkin's lymphoma.

Chris had a strong interest in historical firearms, and shooting black powder, and was a member of the Muzzle Loaders' Association. He was known at the EBSC and socially, as a calm, quiet, non-judgemental person, one who usually didn't start conversations, but listened. He was also remembered for his dry sense of humour.

Chris's interest in things historical didn't just extend to firearms. He bought and restored vintage motorbikes. Before his admittance to hospital, he regularly used one of his two elderly motorbikes to travel to work on, either a Yamaha XS 650 or his Royal Enfield, both of which had been brought back to showroom condition.

Chris loved steam locomotives, and he and his wife Trish travelled all over the country visiting renovated locomotive yards. He had a fine collection of model steam trains and carriages at home.

His other achievements were as a classical guitar player, which he started playing as a teenager. He decided to progress this and attended Thames Valley University where he achieved an honours degree in classical guitar.

Chris was still in employment when he passed away – just a few weeks before his death he had been awarded a long service certificate by British Telecom. He will be sadly missed by his family, friends, colleagues and neighbours.

JOHN BERTRAND

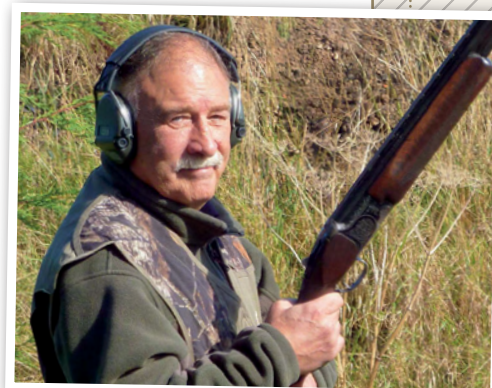
11 SEPTEMBER 1947 – 15 FEBRUARY 2014

We are sad to report that John Bertrand, lifelong sportsman and director of the British Shooting Show, has died, on the

weekend of what has been the biggest British Shooting Show to date.

John started the British Shooting Show in 2009 in Newark, and in a few years grew it into one of the most valuable and essential events in the shooting year. In 2013 he presided over the show's move to the National Agricultural Centre at Stoneleigh, where the indoor venue allowed for larger exhibitor stands, more visitors and a much larger show overall. This year it expanded to a three-day format for the first time.

The show from start to finish was John's vision, which he nurtured from the ground up. It became known as the show for dedicated shooters of all types – from airgunners to wildfowlers and riflemen. A huge supporter of shooting sports, John's contribution to our livelihoods and pastimes cannot be overestimated.



GRAHAM DERBY

Graham Derby passed away at midnight on Saturday 7 December 2013. Graham represented New Zealand at a number of matches including the 1982 NZ team visit to Canada and Bisley. He managed the NZ 300m team at the South Pacific Shooting Championships. Earlier Graham attended the US Army Marksman Unit in Fort Benning and enhanced his coaching skills from the likes of Bill Krilling and became a respected coach within the NРАНZ.

Graham contributed and assisted in developing a web-based results system for fullbore shooting for New Zealand competitions and his attendance over the years at numerous provincial championships, collating results in the mighty campervan was appreciated by all. For a number of years Graham provided standby hosting and webmaster services for a National Association website until the current site was up and running in 2011.

Graham was the editor and publisher of the *Bullseye* magazine from 1995 to 2011. Graham also volunteered to take over and produce the national grading and handicap listings from the early 2000s.

Graham was a life member of National Rifle Association of New Zealand.

ROBERT MADDISON

1937 – 2014

Bob, as he was known to all, went to school in Consett and then to university in Hull where he read Physics and Chemistry. It was here he met and married Joan. Having completed his degree, he joined the Atomic Energy Authority at Winfrith in Dorset where he worked his whole career as an experimental physicist. This involved projects such as the world's largest airgun, designed to fire aluminium projectiles into concrete targets to simulate aircraft strikes on nuclear reactors, or dropping molten materials into cold water to determine what happened when superheated steam caused the metal to explode.

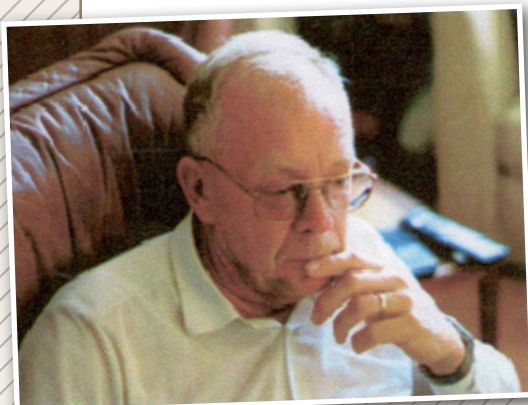
He first got into shooting as a young boy who was aware of the severe threat to this country of rabies getting across the Channel. He persuaded his parents to get him an air rifle to be able to shoot the cats. He started shooting air pistol in the late 1970s, practising in his back garden and travelling to various competitions around the country. In 1980, his son John started to accompany him shooting air pistol. It was during one of these early competitions that John first shot the 10m Running Boar (now known as 10m Running Target) and Bob realised that his son had a very considerable natural talent for the event.

With Bob's encouragement and dedicated support, John's skill progressed. Bob was very proud when John qualified as a Junior in the Great Britain Shooting team for the World Championships in June 1983. This was followed by various European and Nordic Championships. Bob was appointed National Coach in 1988 and in March 1989 went to the European Air Championships as coach to David Chapman and John.

It was Bob's character to be interested in technicalities and detail, so it was natural that he was attracted to the idea of being a judge at these events. He gained his International Class B Judges' qualification in the late 80s and his Class A in the early 90s, roughly at the same time as his wife Joan attained her B licence. He was appointed to judge and jury panels in numerous international matches, often travelling with Joan.

Bob was elected vice-captain of the British Sporting Rifle Club (BSRC) in 1993 and captain from 1995 to 2009. In these years, the club grew considerably and became involved in many new activities. Bob was fundamental to so many of the developments, particularly in promoting

the competition side of static Sporting Rifle events but also Running Deer and Running Boar. However his greatest contribution was probably in the field of training, most particularly



in Range Officer training.

Bob wrote prodigiously and his 'Shooting at Moving Targets', finished in April 2011, is packed with information about all aspects of our sport. He has provided an electronic copy to BSRC with permission to pass on to serious enquirers as long as they acknowledge authorship, so his work will continue to inspire and inform future Moving Target shooters.

We all owe a great deal of gratitude to Robert Maddison for all he has done for us and those who will follow us.

J.M.K.

PETER COYNE

7 SEPTEMBER

1940 – 29 JULY

2013

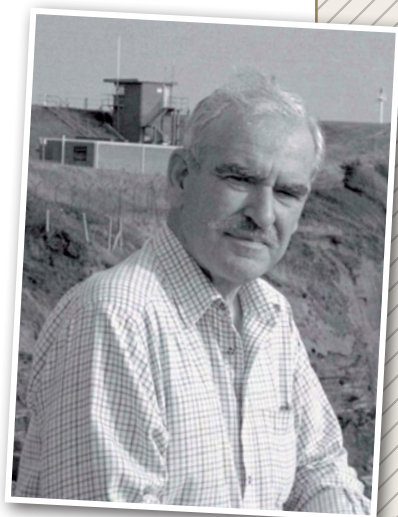
Peter Austin Coyne, who has died aged 72, was a dedicated and enthusiastic target shooter whose skills encompassed many varieties of the shooting sport. He was always ready to encourage new talent and sign on new members of the many shooting clubs he belonged to during his life.

Peter was born in Winchester and enlisted in the Army in 1958 at the age of 17. As a private he was part of the young soldier's rifle team that won the Aldershot District small-arms meeting. In 1959 he was promoted to Lance Corporal. In the summer of 1959 he successfully captained the Royal Hampshire Regiment at the British Army of the Rhine Small-Arms Meeting at the Sennelager ranges in Germany.

Peter's great pleasure was always shooting and he competed at local, regional and national levels at air pistol, .22 pistol, centrefire pistol, .22 rifle and centrefire rifle. In later years he indulged his love of the No. 4 Lee-Enfield rifle that had given him such success in his army days and, despite experiments with P14s, he was rarely seen on Concord Rifle Club firing points without his immaculate and trusty, as issued spec. No4.

In addition to being a longstanding member of the NRA, he served in various offices in Concord Rifle Club where he was first chairman and later a leading light in the club's life. He served as Hon Sec of Fareham Rifle & Pistol Club, and took positions in Havant Rifle & Pistol Club and Golden Lion Air Rifle & Pistol Club.

Towards the end of 2011 Peter was diagnosed with cancer. He took the news very well and remained outwardly strong and inwardly always remained positive. Rarely were his symptoms obvious to people and they did not hamper his way of life very much. Although Peter's passing was expected, it was very sudden.



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BP12	12 GUN RIFLE/SHOTGUN WITH SHELF	£ 299.00	£ 30.00
BPT12	12 GUN RIFLE/SHOTGUN WITH LOCK TOP	£ 335.00	£ 30.00
BPT12X	6/12 GUN RIFLE/SHOTGUN SHELVES WITH LOCK TOP	£ 349.00	£ 30.00
B16	16 GUN RIFLE/SHOTGUN	£ 229.00	£ 20.00
BT16	16 GUN RIFLE/SHOTGUN WITH LOCK TOP	£ 265.00	£ 20.00
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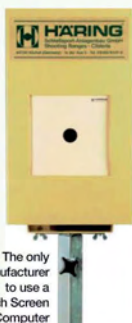
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GENERAL NOTICES

Procedure for the General Council Elections 2014

Eligibility of Candidates and Proposers

Only persons who are Registered Members of the Association and who have fully paid up their subscriptions for 31 March are eligible to be Candidates for election to the General Council and to be Proposers for such Candidates.

Regional and Shooting Discipline Candidature and Voting

Those voting for Regional Candidates must live in the appropriate Sports Council Region even though their nominated Candidates for election may live elsewhere.

Those voting for Shooting Discipline Candidates must have previously declared that Shooting Discipline to the NRA as their primary Shooting Discipline.

Eligibility for voting will be determined as at 30 April 2014.

Curriculum Vitae

To assist the Registered Members with their choice of representatives in the election, a CV for each Candidate will be provided with the voting papers. A draft of no more than 150 words should accompany the nomination. A passport-sized photograph of the Candidate will accompany all CVs.

A content layout for the CVs is on the pro-forma. The Chief Executive will refer back to authors where CVs are too long or appear to be factually incorrect.

The programme of key dates for Elections:

31 March 2014

All Candidates and Proposers must be fully paid-up Registered Members of the Association by this date.

30 April 2014

Nominations for all vacancies must be returned to the Chief Executive by 17:00 on this date.

Registered Members must be qualified for voting for their respective Regional or Shooting Discipline Candidate by this date.

All Members desiring to vote must be fully paid-up Registered Members by this date.

23 May 2014

Voting slips will be posted out to all entitled Members by this date together with the procedures for voting.

14 July 2014

Voting slips in the correct envelope supplied must be received by the NRA office by mail or by hand, no later than

5.00pm on this date.

Scrutineers appointed by the Council to be notified after the Council Meeting on 25 April 2014.

Results

All results will be confirmed at the General Council meeting in September.

Routine Vacancies

There will be the following vacancies in 2014, all of whom are entitled to stand for re-election.

Four Ordinary Members

JPS Bloomfield
DP Calvert
MG Farnan
GMLN Gilpin

Three Regional Members

HRM Ballie – Northern Ireland
GV Barnard – East Midlands
TLW Kidner – Scotland

Four Shooting Discipline Members

AMW Cargill Thompson – Match Rifle
NJ Francis – Gallery Rifle & Pistol
I Shirra-Gibb – 300 Metres
RHF Willis – Historic & Classic Arms *

* Not standing for re-election

Team Captaincies

The following are appointed as captains for the following teams:

GB Gallery Rifle Team Captain 2014 – Peter Cooper

GB Sporting Rifle Team Captain Norway 2014 – Alistair Bullen

GB Veterans Team Captain USA 2015 – Colin Cheshire

GB and NRA Team Captains

Nominations are invited for Captains of the following teams:

- Great Britain Under 25 Captain 2014
- NRA Team to the Channel Islands 2015
- Great Britain Match Rifle Team to Australia 2016

Nominations in writing, signed by three proposers, all of whom must be full annual or life members of the NRA, must be received by the Secretary General not later than 5pm on Friday 21 March 2014.

Nominations to be sent to Georgina.Thatcher@nra.org.uk

Great Britain (Norway) Sporting Rifle Team, June 2014

I am honoured to have been appointed by NRA Council to the Captaincy of the GB Sporting Rifle team to Norway in June 2014 and am delighted that Richard Jeffery and Steve Wallis have accepted my invitation to be Vice Captain and Adjutant respectively.

The tour will take place in the first week of June 2014 and as well as inviting Great Britain, the Norges Skytterforbund have also invited shooters from Finland, Sweden and Denmark and are using this event as a precursor to holding an official Nordic Shooting Region Senior Running Target competition in 2015.

I would like to invite experienced moving target shooters to put themselves forward for team selection. At present it is intended that there will be two teams each consisting of four shooters, however, subject to constraints such as finances and range space in Norway, it may be possible to accommodate one or two individual shooters as reserves.

This is not a closed event and I would welcome interest from all running deer, running boar, moose and statics sporting rifle shooters so please do not be afraid

to put your name forward. At this time it has been confirmed that we will be shooting running deer singles (x2) and doubles (x2) as well as running boar slow (30), fast (30) and mixed (2x20) in Oslo for the main competition and then shooting moose (sitting, standing and moving) and fullbore field target (ranges from 50m to 300m sitting kneeling and standing) in Løten.

The intention is to select one team from those who have a proven ability to shoot these events at a competitive level and a second team from those who have demonstrated their abilities and potential by continued improvement to the point where they are now ready to experience and benefit from this level of competition.

Team members will need to fund the trip themselves and be prepared to make payments in advance. If the opportunity to travel to Norway to represent your country appeals to you please get in touch with either Alistair Bullen or Richard Jeffery. Alistair can be contacted by e-mail, captain@bsrc.co.uk and Richard can be contacted by telephone on 07814 633390 or by e-mail, rgjjeffery@hotmail.com.

Alistair Bullen

2014 GB Gallery Rifle Captain

I'm honoured to have been selected to represent the GB Gallery Rifle Team as their Captain. Taff Wilcox has done a great job over the last couple of seasons and it is with his advice and friendship I take this challenge from him.

As Captain I plan to promote positive thinking and teamwork among the selected team members. Unity and comradeship are imperative to strength and success. Honesty and openness through communication is key and I am keen to make sure all information available to me will be cascaded to the rest of the team. We are desperately in need of raising funds – any help or ideas on how to achieve this will be graciously accepted.

I have a passion for Gallery Rifle shooting, borne from my first visit to Bisley,

which was the Phoenix Meeting 2003. I have an eagerness to share this passion by promoting the discipline as much as possible, not only nationally but worldwide. So if any clubs or individuals would like more information please feel free to get in touch and I'll be happy to help.

Squad selection based on shooting ability, consistency and commitment will be taking place shortly. Any competitor and NRA member that regularly competes in SB or CF 1500 wanting to be considered, please let me or Neil Francis know. Team members will be required to travel to Ireland and Germany, possibly South Africa and other distant shores as the number of competing nations grows. This is a fabulous opportunity to represent GB in our wonderful sport.

Pete Cooper

GB Veterans Team to Camp Perry, Ohio 2015

I am delighted to have the honour of being elected as Captain of the GB Veterans Team competing for World Veterans Individual & Team Championships, part of the US FB National Championships, 3-7 August 2015.

The team consists of a Captain, Adjutant, 12 shooters, Main Coach and two Target coaches (17 in total). I would expect at least one of the shooters to also have coaching ability and at least one member of the team to have armouring ability. The team for the World Veterans Team Championship will be as above except that two of the shooters will become reserves and act as spotters. It is expected there will be at least seven teams competing in the Team match, from USA, Canada, Australia, NZ, South Africa, GB and Germany. I am delighted that Dick Winney has agreed to be Team Adjutant.

The World Veterans Team Championship is a hard and keenly fought affair at 300, 600, 900 & 1000 yards and many of the international veterans teams are immensely strong. GB must therefore take the strongest and best trained team possible to compete for this Championship.

It is intended that there will be two or three training weekends at Bisley in the period 2014 and 2015 which will include matches against other teams. It is intended that financial contributions to the team funds will start early in 2014.

Qualification as a Veteran is if your 60th birthday falls ON or BEFORE the first day of the Veterans Individual World Championship (3 August 2015). So those of you who are now 58 and will be 60 by that date can apply. Any shooters and coaches who feel they have the requisite experience and ability, please contact me, providing your date of birth, e-mail address, contact phone number and an outline of your international, national and county experience and your successes at the last two years at the Imperial Meeting.

Colin Cheshire

(ceefour@btinternet.com)



NRA proposal to IPSC for Governing Body Status

The NRA has recently applied to the International Practical Shooting Confederation for recognition as the administrative body for Great Britain (excluding Isle of Man, Northern Ireland and the Channel Islands).

The Association recognises the growing importance and popularity of our newer dynamic shooting disciplines such as Target Shotgun and Civilian Service Rifle. Securing recognition from the IPSC would allow NRA teams to compete on the International Stage as with other disciplines including Target Rifle, F Class, Gallery Rifle and Sporting Rifle; and help us develop a series of successful competitions throughout the country.

The UKPSA, who are affiliated to the NRA, is the current IPSC administrative body for the GB region.

The IPSC Executive Council has reviewed our proposals and further discussions are scheduled later this year.

Andrew Mercer, Secretary General

BISLEY GENERAL MEETING

The 2014 Bisley General Meeting will be held on Wednesday 16 July at 9pm.

ANNUAL GENERAL MEETING

The 2014 Annual General Meeting will be held on Friday 13 June at 6pm in the NRA Pavilion.

Ibis Rifle Club Open Meeting

The Ibis Rifle Club holds its Open Meeting on Saturday 12 April 2014 and this year it gives you a chance to get back into form before Easter.

The competitions are at Queens II in the morning followed by something a bit different at Long Range. This involves shooting at 1000 and 1100 yards – it is amazing what is achievable at the longer range these days and it will change forever your view of 1000.

There will also be TR (any ammo) and F(TR) competitions. Prizes in kind are awarded for the top scores and at random intervals down the list, so everyone has a chance of winning. There will also be a prize reserved for the top shooter under 19.

The shoot is followed by the prize-giving and a three-course meal, with wine at very reasonable cost, rounding off what has proved in the past to be a most enjoyable day. We have a crowd of regulars, so why not join them to discover the high standards that are achieved in this shoot? For entry forms, contact Bill Rowland at billvbullet@yahoo.co.uk.





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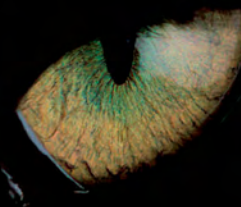
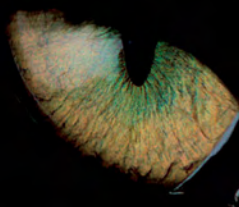
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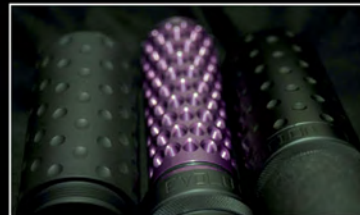
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Marksman's Calendar

Plan your shoots for the remainder of the year with our updated guide to the upcoming fixtures in the NRA calendar



10-11 RANGE CONDUCTING OFFICER COURSE

Richard Blackmore, richard.blackmore@nra.org.uk

17-18 NRA 300M CHAMPIONSHIPS

300m@nra.org.uk

23-25 PHOENIX MEETING

Shooting Division, shootingdivision@nra.org.uk

26 PHOENIX INTERNATIONAL MATCH

Shooting Division, shootingdivision@nra.org.uk

JUNE 2014

6-8 SCOTTISH OPEN CHAMPIONSHIPS (BLAIR ATHOLL)

Allan Mabon, maboonscotland@ntlworld.com

14-15 INTER-COUNTIES METTING

Shooting Division, shootingdivision@nra.org.uk

21-22 SCOTTISH LONG RANGE OPEN CHAMPIONSHIPS (BLAIR ATHOLL)

MARCH 2014

22-23 SPRING ACTION WEEKEND

Shooting Division, shootingdivision@nra.org.uk

APRIL 2014

5 CIVILIAN SERVICE RIFLE

Shooting Division, shootsec@nra.org.uk

12 IBIS RIFLE CLUB OPEN MEETING

Bill Rowland, billvbulld@yahoo.co.uk

19-20 RANGE CONDUCTING OFFICER COURSE

Richard Blackmore, richard.blackmore@nra.org.uk

27 SMALLBORE LONG RANGE MATCH

Shooting Division, shootsec@nra.org.uk

MAY 2014

3 OPEN DAY

Amanda Vaughan, amanda.vaughan@nra.org.uk

3-4 WEST OF SCOTLAND OPEN CHAMPIONSHIPS (BLAIR ATHOLL, SCOTLAND)

John Potter, jmdpottter@googlemail.com



23-25 May: There's plenty on offer at the Phoenix for shooters and enthusiasts alike

Tim Kidner, tlk762@aol.com

25-29 IMPERIAL CIVILIAN SERVICE RIFLE

Shooting Division, shootingdivision@nra.org.uk

25-4 JULY IMPERIAL SERVICE RIFLE

Shooting Division, shootingdivision@nra.org.uk

JULY 2014

2 NRA MILITARY ADAPTIVE SHOOTING CHAMPIONSHIPS

Peter Cottrell, peter.cottrell@nra.org.uk

4-10 IMPERIAL MATCH RIFLE EVENTS

Shooting Division, shootingdivision@nra.org.uk

5-6 IMPERIAL HISTORIC ARMS MEETING

Shooting Division, shootingdivision@nra.org.uk

7-10 IMPERIAL SCHOOLS MEETING

Peter Turner, schools@nra.org.uk

9-13 IMPERIAL PISTOL & GALLERY RIFLE EVENTS

Neil Francis, gallery@nra.org.uk

10-19 IMPERIAL TARGET RIFLE / F CLASS EVENTS

Shooting Division, shootingdivision@nra.org.uk

19 HM QUEEN'S PRIZE FINAL

Shooting Division, shootingdivision@nra.org.uk

25-29 COMMONWEALTH GAMES (GLASGOW, SCOTLAND)

AUGUST 2014

22-24 HOME INTERNATIONAL SKEET CHAMPIONSHIPS (NCSC)

Barry Desborough, barry.desborough@nra.org.uk

23-24 GALLERY RIFLE NATIONAL CHAMPIONSHIPS

Neil Francis, gallery@nra.org.uk



SEPTEMBER 2014

6 NRA OPEN DAY

Amanda Vaughan, amanda.vaughan@nra.org.uk

OCTOBER 2014

5 CIVILIAN SERVICE RIFLE

Shooting Division, shootsec@nra.org.uk

18-19 TRAFALGAR MEETING

Shooting Division, shootingdivision@nra.org.uk

25-26 AUTUMN ACTION WEEKEND & AGES MATCH

Shooting Division, shootingdivision@nra.org.uk

NOVEMBER 2014

1 CIVILIAN SERVICE RIFLE

Shooting Division, shootsec@nra.org.uk

DECEMBER 2014

7 CIVILIAN SERVICE RIFLE

Shooting Division, shootsec@nra.org.uk

OTHER DATES OF INTEREST

18 April – Good Friday – Offices and ranges closed all day

21 April – Easter Monday – Offices closed all day, ranges closed PM

5 May – Early May bank holiday – Offices closed all day, ranges closed PM

26 May – Spring bank holiday – Offices closed all day, ranges closed PM

25 August – Summer bank holiday - Offices closed all day, ranges closed PM

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Phoenix Meeting	May 23rd to 25th
Intercounties Meeting	June 14th and 15th
BCRC/Imperial Meeting	June 28th to July 19th
F Class Euro Championships	September 8th to 14th
Trafalgar Meeting	October 18th and 19th

Look forward to seeing all of you again in 2014!!

There may be other dates when we are coming to Bisley, so if there is anything you need, let us know as we may be at Bisley at that time and can bring whatever goods you require.

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NOTE: the factory will be moving to Newent, Gloucestershire by end of March 2014.

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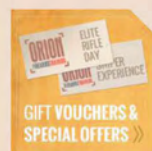
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THE LEUPOLD DIFFERENCE

The Leupold company prides itself on excellence. For their scope business this means total control of the design, testing and every part of manufacture. No-one else has the same resources, from state of the art optical testing equipment through to CNC machinery for the manufacture of all scope tubes.

Why don't they cost more? The answer is simple, economies of scale, Leupold make more scopes than all of Europe's manufacturers combined. Making quality optics is a case of designing an excellent product and removing any variation in production output. So confident are they in their manufacturing quality that they are the only company to offer a lifetime guarantee.



VX-1



► The VX-1 offers a fast focus eyepiece and finger adjustable windage/elevation dials. Also benefitting from Leupolds advanced Quantum Optical Multicoat lens system providing up to 92% light transmission, crisp clarity and sharp contrast. No other scope in its class comes even close to the quality, performance and value. FROM £260

VX-2



► The VX-2 benefits from all of the features of the VX-1 but its superior lenses and coatings ensure upto 94% light transmission. FROM £390

VX-3/VX-3L/VX•R



► The all new VX®-3 has many key improvements over its predecessor. The optic system incorporates the Xtended Twilight Lens System with DiamondCoat 2™ lens surfaces and blackened lens edges for unparalleled brightness and resolution. FROM £545

◀ The VX-3L™ riflescopes combine low-light performance and the revolutionary Light Optimisation Profile™, so you can mount your 56mm riflescope as low as a 40mm, or your 50mm as low as a 36mm. FROM £890

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Model 12 Palma®



Model 12 Benchrest



Model 12 F/TR Class



Model 12 F Class



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*Rifle Twists: .223 Rem 1 in 7", 6mm Norma BR and 6.5 x 284 Norma 1 in 8", .308 Win 1 in 12", .308 Palma® 1 in 13"



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