

Canadian Marksman

Journal of the
Dominion of Canada Rifle Association

Volume 8
Number 1
Spring 2017



2017 Eastern Canada Regional F-Class Championships

Hosted by
The Dominion of Canada Rifle Association

July 6th - July 9th, 2017

Connaught Ranges
Home of the 2017 F-Class World Championships

Ottawa, Ontario

A photograph showing two individuals in a grassy field, likely a shooting range. They are positioned on the ground, leaning over their rifles, which are mounted on tripods. The person on the left is wearing a white long-sleeved shirt and is looking through the scope of a rifle. The person on the right is wearing a white t-shirt and a cap, also looking through a rifle. In the background, there is a large green field with a line of trees and a cloudy sky. A yellow flag is visible on a pole in the distance.

www.easternfclass.ca



SPRING 2017

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MISSED LAST TIME

UPCOMING EVENTS

CANADIAN F-CLASS NATIONAL CHAMPIONSHIPS — August 8-10, 2017
 RANGE MAINTENANCE—INTERNATIONAL TEAMS RECEPTION — August 11, 2017
 ICFRA FCWC - INDIVIDUAL — August 12-14, 2017
 TEAM PRACTICE DAY — August 15, 2017
 ICFRA FCWC - TEAMS — August 16-17, 2017
 CFRC — August 18-26, 2017
 NSCC — August 25-September 1, 2017
 CAFSAC — September 4-16, 2017

DCRA APPROVED MEMBERSHIP FEES - 2016

Membership year 1st April 2017 - 31st March 2018

Life	Sliding scale	Non-Canadian	\$55*
Under 25 Term	\$265	Postal	\$20
Annual	\$135*	Pavilion Club	(GBP) £15
Under 25 Annual	\$75*	Liability insurance (for active life mem- bers)	\$20
Associate (Note 1)	\$55*		
Associate Under 25	\$35*		

**Includes liability insurance*

Note 1—This rate is for members competing in BP or FCNC matches only (not full entry in the Canadian Championships) OR for members who do not compete but wish to support the DCRA. Both will receive the Canadian Marksman.

DCRA LIFE MEMBERSHIP FEES (SENIOR)

Age	Rate	Age	Rate
25-30	x30 annual rate	53-54	x18 annual rate
31-32	x29 annual rate	55-56	x17 annual rate
33-34	x28 annual rate	57	x16 annual rate
35-36	x27 annual rate	58	x15 annual rate
37-38	x26 annual rate	59	x14 annual rate
39-40	x25 annual rate	60	x13 annual rate
41-42	x24 annual rate	61	x12 annual rate
43-44	x23 annual rate	62	x11 annual rate
45-46	x22 annual rate	63	x10 annual rate
47-48	x21 annual rate	64	x 9 annual rate
49-50	x20 annual rate	65 and over	x 8 annual rate
51-52	x19 annual rate		

DOMINION OF CANADA RIFLE ASSOCIATION UNDER 25 BURSARY APPLICATION

(available at www.dkra.ca)

OR contact

**DCRA
45 SHIRLEY BLVD, NEPEAN, ON
K2K 2W6**

PHONE: (613) 829-8281 FAX: Contact Office

EMAIL: office@dkra.ca

Deadline is 1 May 2017

The Canadian Marksman

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DCRA, 45 Shirley Blvd
Nepean, ON K2K 2W6

Material for publication, preferably via
email, is welcomed and should be
sent to

The Dominion of Canada Rifle Association
45 Shirley Blvd
Nepean, ON K2K 2W6

Tel: (613)829-8281
Fax: (613) 829-0099
Email: office@dkra.ca
<http://www.dkra.ca>

Only articles appearing by authority of the DCRA
shall be regarded as official; all other articles,
views, and comments are solely those of the
authors, and the DCRA accepts no responsibility
for the validity of anything that may be expressed
in them.

For advertising rates, please contact DCRA.

Please supply ads in .doc format.

Editing and Production

Laura MacLeod
Scott Bissett
Kathy Corcoran

Advertising

LCol (Ret'd) Bill Molnar

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Return undeliverable Canadian
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45 Shirley Blvd
Nepean, ON K2K 2W6

On the Cover:

Civilian shooters and
members of the Canadian
Armed Forces during the
800m stage of the NSCC
Sniper/Precision matches.

The DCRA Annual General Meeting

Schedule of Events – 31 March - 2 APRIL 2017

- 31 Mar DCRA/PRA Workshop - 1330 hours
 - 1 Apr Outgoing Council Meeting at discretion of President - 0930 hours
 - 1 Apr Annual General Meeting - 1000 hours
 - 1 Apr Annual Dinner (time and location to be determined)
 - 2 Apr Incoming Council Meeting - 0930 hours
 - 2 Apr New Executive Committee Meeting, following Council Meeting
- Location: Connaught Range, 35 Shirley Blvd

Dinner Saturday

Saturday evening will feature the traditional blazer and tie dinner at a local restaurant. Please let the DCRA office know if you plan on attending the dinner so reservations can be made.

Annual General Meeting - Agenda

1. Opening Remarks by the President
2. Statutory Declaration of Notice of Annual General Meeting
3. Approval of Agenda
4. Adoption of Minutes of the DCRA AGM, 2 April 2016
5. Annual Report
6. Reports from Provincial Rifle Associations
7. Committee Reports
8. Vote of Thanks
9. Adoption of Financial Statement and Reports
10. Approval of Budget for 2017-2018
11. Approval of Actions of Council and Executive in FY 2016-2017
12. Report of the Nominating Committee
13. Date of next Annual General Meeting
14. New Business
15. Adjournment

Costs

Quarters (if available) - \$10/night
Donations requested to help cover cost of refreshments

Nominations for DCRA Council

In this issue of the Marksman you will find the call for nominations for the DCRA Council. In addition to positions filled by appointees from the Provincial Rifle Associations, ten places at -large are available for full members of the DCRA, with those elected serving a two-year term. If there are more than ten nominations, an election will be held by mail. Council members whose term is expiring are eligible for re-nomination and re-election.

The Nominating Committee strongly encourages all those with an interest in the affairs of the DCRA to consider making nominations and/or standing for Council. It is through the Council that the members can influence the policy and direct the future course of the Association.

It is also from the Council that the members of the Executive Committee will be drawn. The By-Laws require that voting members of the Executive must be members of Council. This adds additional importance to the nominations about to be made.

We urge members to take a serious interest in the nomination process. Those with dedication and commitment to the DCRA are warmly encouraged to offer their names for election. Only full (not Associate) members of the Dominion of Canada Rifle Association are eligible for nomination and election to Council.



REGISTRATION FORM	RSVP
Name: _____	
<ul style="list-style-type: none"> • I will attend the PRA/DCRA workshop. ____ <ul style="list-style-type: none"> ○ Province: _____ • I will not attend the PRA/DCRA workshop. ____ • I will attend the AGM. ____ <ul style="list-style-type: none"> ○ I will arrive on _____ at _____ hrs and depart on _____ at _____ hrs ○ Means of Transportation _____ ○ I require quarters (if available) on the range for the following nights: _____ ○ I do not require quarters. ____ ○ I will attend the annual dinner on Saturday. ____ ○ I will not attend the annual dinner on Saturday. ____ 	

TO: ALL VOTING MEMBERS OF THE DCRA

ELECTED BY THE GENERAL MEMBERSHIP

NOMINATIONS FOR 2016 COUNCIL

This official notice solicits your nominations for 10 new members to replace those elected in March 2015. The list of names in bold font indicates the members of Council who were elected in 2014 for a two-year term until 2016 and who require replacement. These individuals may be nominated for re-election if available and willing to stand. The list also contains the names of those who were elected in 2016 for service until March 2018.

All PRAs are asked to also submit the names of their Designated Council Members for 2017 so that we can avoid nomination conflicts with the elected list.

Don Haisell
Executive Director

Elected by acclamation in 2016, term of office expires April 2018

- Mr. Gary Bowman Ontario
- Mr. Gale Stewart Quebec
- Mr. John Chapman Manitoba
- Mr. Peter Dobell British Columbia
- Mr. Chris Jones Ontario
- Mr. Alain Marion Quebec
- Mr. Marcel Kolb Nova Scotia
- Mr. Pat Vamplew Ontario
- Mr. Jeff Jenkins Nova Scotia
- Mr. Peter Westlake Ontario

Elected in 2015, term of office expires April 2017

- Mr. David Adams British Columbia
- Mr. Martin Cashin Ontario
- Mr. Scott McGinnis Ontario
- Mr. Barry Price Ontario
- Mr. Marc Landreville Ontario
- Mr. Roger Romses Ontario
- Mr. Steven Spinney Ontario
- Mr. Jim Paton British Columbia
- Mr. Bob Raymond Ontario
- Mr. Scott Bissett Ontario

COUNCIL MEMBERS AT LARGE

NOMINATIONS FOR DCRA COUNCIL 2017 *(Form may be copied or facsimile submitted)*

The undersigned members of the DCRA hereby nominate _____
for election to the DCRA Council at the Annual General Meeting to be held on Saturday 1st April, 2017

Proposer: _____ Signed: _____

Seconder _____ Signed: _____

I accept this nomination to serve on the DCRA Council if elected: Signed: _____

To serve on the DCRA Council, if elected, the individual's membership must be renewed and in good standing. Biographical information is to be supplied by the **nominee** in the space below. This and only this information provided will be included in the ballot for the vote.

Life, Full and Under 25 members only are eligible to nominate and vote.

All eligibility will be checked by the DCRA office.

Please return this form to the DCRA, 45 Shirley Blvd, Nepean, ON K2K 2W6 or office@dcra.ca

Fax (613) 829-0099 Attention: Chairman of the Nominating Committee.

Deadline for receipt of nominations: Mar 31, 2017



THE DOMINION OF CANADA RIFLE ASSOCIATION L'ASSOCIATION DE TIR DOMINION DU CANADA

PATRONS, LIFE GOVERNORS, COUNCIL, and EXECUTIVE COMMITTEE 2016/2017

The following individuals serve for the duration of their tenure in office, when an honorary appointment is accepted by the incumbent:

PATRON

His Excellency, The Governor General of Canada

VICE PATRONS

The Prime Minister of Canada

Lieutenants Governor of each Province of Canada

Premiers of each Province of Canada

HONOURARY PRESIDENT

The Minister of National Defence

HONORARY VICE PRESIDENTS

Chief of Defence Staff

Commander of the Royal Canadian Navy

Commander of the Canadian Army

Commander of the Royal Canadian Air Force

Commissioner of the Royal Canadian Mounted Police

Commissioner of the Ontario Provincial Police

Directeur de Sûreté de Québec

City of Ottawa Chief of Police

President, Army Cadet League of Canada

Gen J Vance CMM, MSC, CD

VAdml MAG Norman CMM, CD

LGen M Hainse CMM, MSC, CD

LGen M Hood CMM, CD

Commissioner B Paulson COM

Commissioner V Hawkes

Director M Prud'homme

Chief Charles Bordeleau

Mr W Fletcher

LIFE GOVERNORS

(in order of seniority)

Major (Ret'd) C. M. Brown, CD

Major General (Ret'd) H.C. Pitts, MC, CD

Major (Ret'd) D.W. Rumbold, CD

Mr. R. A. Pitcairn

Dr. J.C. Thompson

General (Ret'd) A.J G.D.de Chastelain, CH, CMM, OC, CD

Mr. A.G. Peden

Mr. L. D'Amour

General (Ret'd) J. M. G. Baril, CMM, MSM, CD

Lieutenant Colonel (Ret'd) T. J. Kaulbach, OMM, CD

Lieutenant Colonel (Ret'd) W.J. Molnar, CD

Mr. S.J. Bissonnette

Mr. S.E Frost

Major General (Ret'd) E.S. Fitch, OMM, MSM, CD

Dr. J. Tetlow

Mr. K. Westling

Mr. P. Reibin

Major General (Ret'd) T.F. de Faye, C.M.M., C.D., SBStJ

Dr. R. Mullin

Mr. J. Dugas

Major (Ret'd) D.M. Letson, CD

DOMINION OF CANADA RIFLE ASSOCIATION

President/Chairman of Council	BGen Ray Romses	Chair of Shooting Committee	Serge Bissonnette
Executive Vice-President	Des Vamplew	Chair of Administrative Committee	Bill Molnar
Deputy Chairman of Council	Jim Thompson	Chair of Shooting Support Committee	Peter Westlake
Comptroller	Jim Thompson	Past Executive V.P.	Stan Frost
Executive Director	Don Haisell	Past Secretary-Treasurer	Keith Bornn

PROVINCIALY APPOINTED VICE-PRESIDENTS

British Columbia	P. Dobell	Quebec	G. Stewart
Alberta	F. Lalear	Nova Scotia	A. Webber
Saskatchewan	K. Skjerdal	New Brunswick	A. MacDonald
Manitoba	M. Sloane	PEI	C. Bachmanek
Ontario	A. Praysner	Newfoundland and Labrador	G. Woodman

PRA DESIGNATED MEMBERS OF COUNCIL

British Columbia	B. Mylleville	Quebec	N. Rossignol
Alberta	A. Tikkanen	New Brunswick	D. Chisholm
Saskatchewan	S. Frost	PEI	C. Bachmanek
Manitoba	L. Poulin	Nova Scotia	J. Marshall
Ontario	F. Mohideen	Newfoundland and Labrador	J. Hearn

COUNCIL MEMBERS AT LARGE - ELECTED IN 2016 WITH TERM EXPIRING IN 2018

Gary Bowman	Gale Stewart	Alain Marion	Marcel Kolb
John Chapman	Peter Dobell	Patrick Vamplew	Peter Westlake
Jeff Jenkins	Chris Jones		

ELECTED IN 2015 WITH TERM EXPIRING IN 2017

Dave Adams	Roger Romses	Barry Price	Bob Raymond
Martin Cashin	Steven Spinney	Marc Landreville	Scott Bissett
Scott McGinnis	Jim Paton		

NOMINATING COMMITTEE

Peter Westlake	PLUS 2 ADDITIONAL:
Steven Spinney	Daniel Chisholm
Pat Vamplew	John Chapman

ELECTED MEMBERS OF THE EXECUTIVE COMMITTEE

John Chapman	Steven Spinney	PLUS 3 ADDITIONAL:
Scott McGinnis	Gary Bowman	Barry Price
Pat Vamplew	Peter Westlake	Patrick Champagne
Emma McGinnis	Scott Bissett	Aaron Daley
Chris Jones	Alain Marion	
Daniel Chisholm		



Range Sports Unlimited

Paul Reibin

854 Pleasant Street

Kamloops, B.C., Canada V2C 3B5

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RPA Quadlite



Designed with the gun connoisseur in mind and developed from the Quadlock, the Quadlite can be customized for long range, varmint, hunting, high power or bench rest shooting. Drawing on over 30 years expertise of extreme accuracy long-range target actions, the Quadlite's pedigree is first class.

- A modern smooth shape in a satin black finish that only weighs 2.26lbs (1.03kg)
- A one-piece bolt made from solid alloy steel incorporating a "cocked" tell tail
- Actions drilled to accept a weaver/scope rail or the RPA Trakker rearsight
- A received body barrel thread screw cut to 1.0625" x 16 UNS
- A short firing pin made from high tensile steel that uses a coil spring
- Recoil plate has a location lug to allow barrel removal and attachment without disturbing the recoil plate position in the bedding
- Quadlite will fit your existing Remington stock with minor modifications and use many of the same accessories
- Readily accepts most major US triggers
- Available in .308 and .223

RPA Quadlite Repeater Action



Available in .308 and .223 calibers, the Quadlite Repeater uses a "drop box" magazine chosen for its smooth operation. The magazine port is designed to maximize action integrity, rigidity and accuracy.

RPA Quadlock



The RPA Quadlock is the definitive single shot bolt action receiver designed specifically for Palma (long range target) shooting. It is available in .308 caliber and should be used where extreme accuracy is required. The RPA 4-lug action produced in Tonbridge, has been the choice of champions around the world for over 30 years.

- Redesigned round blued action
- Two large recoil lugs machined in the solid receiver body
- Action drilled for dovetail rail that accepts Trakker Top Mount rear sight
- Will accept scope rail
- A large side loading port that enables fumble free loading and keeps out of the weather
- A short firing pin travel (3.50mm) that aids fast lock times (less than 1.2 milliseconds)
- A firing pin made from a single piece of heat-treated high high tensile steel
- Available in magnum caliber actions

New Low Pricing!

POINT OF AIM

The year 2016 was my year of insights. I retired from the Army and became engaged in learning about the DCRA, its personalities, and its ways of doing business. While shooting had been a part of my life for over forty years, the civilian counterpart in the form of the DCRA proved to be quite different. This year was a learning experience for me and one that I hope will set the tone for the future.

The team in the office does a tremendous job on behalf of the members. Kathy Corcoran has a deep understanding of the organization and works tirelessly to keep things moving. Pierre Lafontaine supports Kathy and me in a variety of tasks including the leadership of the QM team during the summer shooting season. To both these individuals, their work is not just a job, but their passion. They love what they do and strive each day to support the volunteers and shooters.



This year will see a number of initiatives which will hopefully transform the way the DCRA operates. I trust you will support me in these changes and let me know whether I am on the right track. The future of the DCRA depends on modernization, efficiency, and messaging, three things that I feel we all need to be engaged in.

Bullet Point #1: Finances. Our comptroller, Jim Thompson, Kathy Corcoran, and our bookkeeper, Mark Heis have collaborated to upgrade our accounting procedures. These changes will facilitate an audit which is planned for the fall. The audit needs to be aligned with our Directives which are currently under review.

Bullet Point #2: Bylaws and Directives. Our By-laws are under review by Stan Frost, supported by Jim Thompson. The work in progress will continue with a view to presenting proposed revisions to the membership in early 2018. The Directives, which tell us how to operate in practical terms, are also being revised.

Bullet Point #3: Membership. Our strength is our membership. It is important that we encourage new shooters to become members of the DCRA. Perhaps we should consider offering a special membership to serving military and/or veterans? This may be a way of encouraging them to support the DCRA both in and out of uniform.

Bullet Point #4: Organizational Chart. Our structure needs to be updated and a 'Terms of Reference' written for each position. This will ensure that all our volunteers know what is expected of them and the approximate time it will take to do the job. That way, expectations are managed and efficiency is achieved.

Bullet Point #5: Relationship with the Military. We are reinvigorating our relationship with the military. This started with an information brief to MGen Lanthier, the commander of the Canadian Army Doctrine and Training Centre (CADTC), followed by discussions within his headquarters. He is responsible to the Army Commander and ultimately the Chief of the Defence Staff for the maintenance and use of all ranges and training areas. It is important that our use of military ranges is protected.

This past summer, we had support from the CAFSAC staff while we ran the National Service Conditions Championships (NSCC). As in past years, Kathy provided statistics support to CAFSAC, work that was recognised by the commander of the Army as outstanding.

The next briefing to CADTC HQ will include details of how the DCRA and the Provincial Rifle Associations support the marksmanship program of the Canadian Armed Forces. I know the senior leadership of the military have little awareness of the effect that we have on military shooters and so this message is a must.

A number of exciting events are in the wind for the near future. These are the things that makes the DCRA what it is.

Bullet Point #6: Under 25 Team to South Africa. Patrick Champagne and his team travel to South Africa in March 17 to represent the DCRA and Canada. I have been told that this is the first time an U25 team has participated in an international competition outside Canada.

Bullet Point #7: F-Class World Championships. Scott Bissett has been working very hard to plan and organize the F-Class World Championships, to be held for the second time in Canada. It is fitting that a discipline of shooting that started here should host shooters from around the world on Canada's 150th birthday.

Bullet Point #8: Changes in the Black Powder Shooting Program. After a long and excellent tenure as Black Powder Chairman, Chris Jones has handed over to a new team. He will remain in the background as an advisor and, no doubt, continue to shoot. Thanks, Chris, for your dedication. While we had planned to host the World Black Powder Championships in 2018, it was realized that it would be logistically impossible to make it work and therefore, unfortunately, it will

POINT OF AIM

not be done. Having said that, the Black Powder community is strong and we will find a way to strengthen interest in this in the years to come.

Bullet Point #9: Summer Matches. Having not seen the matches before, I was impressed with the dedication of both the staff and participants. The shooting was incredible... and the camaraderie infectious. This is the essence of the DCRA. Whether a sling shooter, F'er, military shooter, or muzzle loader, it is about steadiness, aiming, shooting, and hitting the target however far away it might be. For the support team; those who mark targets, process score cards, track scores, build and repair targets, sort trophies, plan awards ceremonies, and crisis-manage, it is about ensuring everyone leaves Connaught having had a great experience and a great time. Yes, there were challenges, but in the end it was a good year.

The summer of 2017 will have a different challenge. Not only will everyone gather for the usual matches, but the F-Class World Championships will be in town. Connaught will be a busy place and I, for one, am looking forward to it!

Bullet Point #10: Sesquicentennial. Our 150th year will soon be here. Scott McGinnis and his team are developing plans to mark this significant milestone in our history. There will be more to follow as this date nears.

Bullet Point #11: Thank-you:

MacDonald Stewart Foundation. The MacDonald Stewart Foundation continues to be a big presence, particularly during our summer matches. We appreciate the financial support for prizes and the dinner at the Chateau Laurier Hotel – a classy recognition of our relationship.

Madge Twolan. For many years Madge worked behind the scenes to find sponsors and financial support for the DCRA. She did an outstanding job. Thank you and all the best in your next adventure.

Volunteers. To all the members who have volunteered their time to make the DCRA work... thank you.

*Don Haisell
Executive Director*

Adventure Starts Here



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IN MEMORIAM

Alistair Munro



In September 1976 the BCRA had the first visit by an International rifle team. They came from Scotland and shot in the four day PCRA Navy matches which included service rifle on Thursday and Friday and TR on Sat and Sunday. It was a great experience for us all. The friendships made during that visit were many and last to this day. The message they took back to Great Britain started the visits of teams to British Columbia. We had the privilege of hosting a GB team this year Captained by a shooter who was on that first team in 76, forty years ago. Lindsay Peden.

We owe all the great things that we have experienced with the visiting of international teams to the leader of that 1976 Scottish. His name was Alistair Munro, a gentleman of the highest degree. The visit of Alistair's team had a profound affect on the BCRA fraternity and in particular our family for many years. It seemed that no matter where we were in this world, fellow shooters new about British Columbia.

Alistair was the Factor of Blair Athol Castle and estate following the second world war until he retired some years ago. During his tenure he had the now famous Jubilee range constructed on the castle estate near Pitlochry.

In the years following that first team visit my wife Margaret and I received a Christmas card from Alistair and his wife Molly every year. Molly passed away some years back. From then on, Alistair lived alone in a wee stone cottage in Pitlochry but he continued to send the Christmas cards and included a photo each time. The last one that we received was 2014. He looked great while sitting at the Castle cafeteria with a candle in a cupcake on his 98th birthday. Each year when we received the card we would say to each other that we must go to visit him.

In 2015 Margaret and I did that. It was so good to see Alistair and talk about the past and see some of the treasures from his years in the honorable artillery while serving in India during the 1930's. He was due to return home in December 1941 but two weeks before leaving India the attack of Pearl Harbour changed everything. He fought in Burma and was badly wounded, the result being the loss of his left forearm. That was the reason why he competed in shooting while resting his rifle on a hook. I happened to shoot with him at long range in Bisley in 1973. I noticed that having to shoot with only one arm didn't seem to affect his scores any as he proceeded to teach me some things about 1000 yds at Bisley.

During our visit in 2015 Alistair and his son Jon took Margaret and me to lunch in the castle. While we were walking back to the car Jon pointed out a newer feature of the castle and explained that is was a great hall that was used for big meetings and wedding receptions. Margaret said to me that we should come back next year to get married again. Alistair was walking beside Margaret and immediately said "good idea and I will be best man"

Alistair passed away suddenly and quietly September 1st, just nine days short of his 100th birthday. He will be forever in our thoughts.

Sandy Peden

Jean Hall



*Life Member DCRA (50+ years)
Life Member Mission & District Rod & Gun Club*

Jeannie was in the RCAF at Whitehorse when she met Don at the rifle range in 1952. Five months later they married and started on a lifetime journey together.

Since '56 Jeannie was well known at Connaught ranges by assisting at the NDHQ club. She was involved in the early stages of the Hunter Safety program when it started in Manitoba in the early '50s and has always been a staunch supporter of Junior Programs. Jean was "one of the team" in '69 at Bisley when the team set a record that remains today. In '76 she was an Official at the Montreal Olympics along with Don and her son Rob. She is now resting "on the big range".

IN MEMORIAM

Lt. Col. Richard (Dick) Goldthorpe Moore



It is with great sadness that we announce Dick's peaceful passing at Marian Villa, London, Ontario on September 16, 2016. Loving husband of Janifer Moore, father to Nancy Dubois (Dave) and Susan Moore; stepfather to Joel and David Taggart. Predeceased by his wife Barbara and daughter Sandy Jackson. Grandfather to Dana and Robyn Dubois, Bradley Jackson, Andrew Moore and Holly McAndless, and Frank Taggart.

His leadership in the community extended from 35 years as an elementary school principal, to his lifetime commitment to the 9 Signals Regiment/22 Service Battalion of the Canadian Armed Forces Militia including belonging to the Royal London Military Institute and a member of the Officer's Mess at Wolsely Barracks. He was also proud to be a member of the London Amateur Radio Club, the Ontario Rifle Association in which he was a lifetime member and twice a representative on the Canadian Bisley Rifle Team. In his spare time, he was an accomplished photographer, a member of the Masonic order (The Tuscan Lodge), a member of the Shriners' Trumpet Band, the Vimy Branch #145 of the Royal Canadian Legion and the Crumlin Sportsman Association as well as a recreational small craft pilot. His thoughts were never far from the ski hills where he engaged not only his family but countless students.

LGen Charles-Henri "Charlie" Belzile CM, CMM, CD



Charlie died peacefully on December 5, 2016 surrounded by his girls. He was 83 years old. He will be dearly missed by Janet (nee Scott), his loving wife of 46 years, as well as by his daughters Denise MacGillivray and Suzanne. Born in Trois-Pistoles Quebec in 1933, he was the 12th and youngest child of Charles Belzile and Alice Dionne. Charlie had a long and distinguished military career spanning 37 years of active service. He joined the military during the Korean War and served in Korea after the cease fire for 13 months. As a career soldier, he served all over Canada as well as in Cyprus and Germany, ultimately as the Commander of Canadian Forces Europe. He retired in 1987 after serving for 5 years as the Commander of Mobile Command (now the Canadian Army). To all those who knew him, Charlie was larger than life and left an impression on all those that he met. He had a story for every occasion, and loved to give tours of his "I love me" room, where every inch of wall space was covered with plaques and mementos from his long career.

Following his retirement, Charlie was active in many different military and veterans organizations and was recognized with the Order of Canada for his contributions to veterans in Canada. LGen Belzile was a Life Governor and a great friend of the DCRA, and tremendous supporter of the Cadet marksmanship program.

DCRA STATS SHACK

Results from NSCC, the Winter Postal Program,
Eastern F-Class Regionals, CAFSAC, and NCRRA matches
will be posted as available on the new website.



www.dcrastatsshack.ca

TOP GUN

At the 2016 Commonwealth Team Match in Ottawa between the United States, Great Britain, and Canada, Nicole outperformed all 35 fellow competitors. Firing at 800 and 900 metres, Nicole Rossignol scored 100-10V, 100-7V with iron sights, the V-ring being 12 inches!

Now that is “Top Gun” status!

This superior performance did not happen by accident but was the result of dedication, perseverance, and preparation to excel as an athlete in the sport of shooting. In '87 Nicole was a member of the Cadet Bisley Team, in '88 a member of the Canadian National team. From '89 to '93, she was coach for the Cadet Fullbore Camp at Connaught range in Ottawa. Nicole was a member of the Palma team (8/9/1000 yd shooting) in 2008 and 2015. There is more. Two Quebec Provincial championships and Lt. Governors, 2014 & 2016, and the Ontario Provincial championship and Lt Governors in 2016!



The message and “challenge” to young shooters is that YOU CAN DO IT TOO!!! Nicole has a message for you: “If there is anything to say to young shooters is to keep at it. Success doesn’t happen overnight. It takes practice, good equipment and a desire to keep going when things get tough. Also, it takes a goal, to do what it takes for success.”

After reading this you may ask what do I have to do, where can I get the help and information I need? There are many benefits to setting your sights on being an elite athlete and moving ahead step by step. First, and importantly, you will have fun. You will also gain a sense of personal achievement, a “family” of lifetime camaraderie with people from all walks of life, and as a by-product, most participants carry forward their habit of excellence into their workplace.

Who do I contact? Call the President of your Provincial Rifle Association and ask who there can help me? E-mail contacts are on their websites. If you have difficulty contacting them call the DCRA office for assistance. (www.dkra.ca) In your queries you may get directed to DCRA's National Training Co-ordinator. A note for the Provincial Associations, “be there” when you get the call! In the words of Lanny Bassham, Olympic Gold Medalist, “People – this is the hardest component to acquire for success. Somebody must be there for you. You will never get anywhere without them. Hold on to them and reward them for granting your success”. For more information on “how to” check out the document library, training section at www.targetshooting.ca.

The beauty about rifle shooting is that in Canada you can practice almost anywhere you can find a safe 100yd range. Rod & Gun Clubs are a good source if there is one in your area. Practice shooting groups will help improve your ability to move into a competitive mode. Check out the dates for Provincial practices and Annual Matches, then plan to go. It is a step on the road to becoming a “Top Gun”.

Don Hall

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REVISITING GAIN TWIST

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What's Old Is New Again! An Updated Look At Gain Twist Rifling.

By MSG Joe Carlos, Army Reserve Shooting Team

Some shooters are under the impression that gain twist barrels (sometimes also called "Progressive Rifling") are a recent invention. They have been around longer than many of us are aware. One of the most famous barrel makers of all times was Harry Pope and he was making gain twists back in the late 1800's and early 1900's. Writings from the period say that his gain twist barrels were unsurpassed for accuracy. How much of that tack driving ability was due to the gain twist configuration vs. good tooling and a sound work ethic no one can say.

On Again, Off Again

Given the period in history that Pope was making his gain twist barrels, it is likely they were used a lot for shooting lead bullets. The popularity of gain twist barrels has been like a roller-coaster ever since. As jacketed bullets became more popular, there may have been some confusion as to whether gain twist barrels would work with them. Even to this day I still hear a few persons questioning if gain twist is just for lead bullets. Today gain twist barrels are available for muzzle loaders employing lead projectiles. You can also purchase them for several brands of pistols which will shoot either lead or jacketed bullets and one U.S. and one Canadian firm make gain twist rifle barrels for shooting jacketed bullets. I will list the sources for all these at the end of the article.

What It Is

The name "gain twist" hints at how it works. The rifling spins the bullet slow at the back of the barrel and increases the twist rate incrementally closer to the muzzle. As an example, the gain twist barrels that I am using in my 20" AR15 service rifle barrels go from 1:13" twist just at the front of the chamber to 1:6.5" twist as the bullet exits the muzzle. (I had one of these barrels split lengthwise. I tried to take a picture of it for this article so you could see the change in twist from back to front. Because the lands are just a little more than the thickness of a sheet of paper taller than the grooves my limited photo skills just couldn't capture this well enough. To see this barrel stop in and see me on Commercial Row out at Camp Perry, OH in late July and early Aug. during the CMP Service Rifle matches. We all know that longer bullets require a faster spin to stabilize than shorter bullets. The 1:13" twist at the back of my AR's would nicely stabilize short 55 gr. military style bullets. A uniform 1:13" twist barrel would never spin the long 80 and 90 gr. bullets that AR Service Rifle shooters like to use for 600 and 1,000 yd. competitions fast enough, however. 90 gr. bullets require a 1:6.5" fast twist to stabilize them. With regard to stabilizing the bullet the only twist that the bullet "cares about" is the final one at the muzzle. So my 90 gr. bullets are just as stable in flight with a gain twist that starts spinning them very slowly at first and ramps up the spin at the muzzle as they would be if spun uniformly real fast all the way from the front of the chamber to the muzzle.

So Why Bother?

I just said that 90 gr. bullets shot from a conventional barrel that has the rifling cut at 1:6.5" twist all the way from just in front of the chamber to the muzzle will stabilize bullets equal to a gain twist that begins spinning the bullet at the slower 1:13" twist at the back and increases the rate of spin to 1:6.5" at the muzzle. So why pay a barrel maker a few dollars more for the gain twist when the standard 1:6.5" twist will do just as well at stabilizing the bullet? The answer, simply put, is that stabilizing the bullet is not the only consideration.

The 90 gr. Sierra Experience

As near as I have been able to trace back the first 90 gr. bullet for the AR15 was designed by Jimmy Knox back around 2004. That bullet offered by his firm, JLK (his initials), was a VLD with an impressive B.C. The Army Marksmanship Unit was looking for a good 1,000 yd. service rifle alternative to 80 gr. boat tails that are too susceptible to wind drift and just make it to the target supersonic at that range.

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They jumped on the JLK and considering the very limited selection of conventional rifled 1:6.5" twist barrels available at the time they did quite well. One of their shooters, using JLK 90's, broke an Interservice 1,000 yd. service rifle record that I had set with an M14, shooting heavy .308 bullets, and that I had held for nearly a decade.

Shooting VLD bullets is a pain in the butt for anyone. First, you have to shoot test groups to determine the amount of bullet jam each gun wants. (The bullet is seated a little longer than the chamber and is actually driven up into the throat when the bolt closes). Each gun has its own bullet seating "sweet spot" where accuracy is best. In my experience with JLK 90's this jam can run anywhere from .001" to .010" but is always gun specific. Then, as the throat erodes forward from being shot, the operator must continually gauge the new length and readjust his bullet seating die to compensate. Bullets get set out longer so the amount of jam remains in the sweet spot originally identified for the individual rifle. This process is generally referred to as "chasing the throat". Eventually, as chambers get longer and longer one may even have to increase the powder charge in order to maintain the original velocity of the rifle. There is nothing particularly difficult with all of this but it is time consuming and requires a diligent attention to detail and record keeping. It is a fair amount of effort for one gun but for a military rifle team it becomes a mountain of work! The AMU used their support staff of one or two "smart guys" to chase the throats for the whole squad. Those poor guys must have had very little time for anything else. As Dirty Harry famously said, "A man ought to know his own limitations". So the AMU limited its 90 gr. VLD work to just 1,000 yd. long range guns and I don't think they dabbled much with them for 600 yd. shooting. The respectable B.C. of the JLK bullet would have provided a fair amount of 600 yd. "wind proofing" but at a cost of monumental volumes of work.

Boat tail bullets are normally jumped as opposed to being jammed. (They are seated just a little shorter than the chamber). Boat tails are way less maintenance to keep up with as there is no requirement to "chase the throat". Most military rifle teams use boat tails but there were no 90 gr. boat tails on the market back in 2004 when the AMU got interested so they made due with the high maintenance VLD's while obviously hoping that some bullet company would introduce a B.T. Sierra did just that in 2005. Supplies of Sierra's new 90 gr. B.T. were a little difficult to come by at first. On top of that, Jimmy Knox ended up selling his company eventually to SwampWorks and I seem to recall there was a lag in production of the VLD as well. I was the Armorer for the Army Reserve Service Rifle Team during all this time period and was watching the goings on and also hoping for a low maintenance 90 gr. boat tail to hit the market. When I was able to get my hands on a supply of the Sierras in the early spring of 2006 I began load development work using a cross section of the only barrels that were available at the time. A true 6.5 twist 4 groove from Krieger, a 6.5 twist 3 groove from Pac Nor, and a straight 6 twist 6 groove from Douglas. I consulted with Sierra and they recommended hitting a muzzle velocity of 2,650 fps. to keep bullets supersonic and strong thru 1,000 yards. There was (and still is) very little load data available for 90 gr. bullets in the .223 Rem. caliber. In order to achieve the 2,650 fps. that Sierra recommended in my 20" barrels I had to go way over published maximum loads. I was using new military brass with crimped in primers and was pleasantly surprised to be able to achieve Sierra's recommended velocity with no primer retention problems in my Wylde chambers. Accuracy was good. Dependability, not so much. As my speeds began to approach the recommended 2,650 fps. I began to experience mid air bullet blow ups in all 3 barrels. The Kriegers with their customary tight .218" bores really ate the Sierras for lunch. The odd numbered 3 groove Pac Nor was the most "Sierra friendly" but still blew up some bullets. Of course I contacted Sierra and shared my experiences them. For what it is worth, they still credit me as being the first reliable source to experience bullet blow ups with the 90. Since then a whole lot of shooters have shared the experience, however. Sierra concluded that the jacket could have stood to be a little thicker and felt that rough obturation of the back of the bullet was the major cause of the midair bullet failures. The AMU was aware of my bullet blow ups. I guess they concluded that with the barrels that were currently on the market there was no way to achieve the target 2,650 fps. without the danger of blowing up the Sierras. I believe they continued to use up what JLK's they had and later abandoned their 90 gr. project. A couple of years later they came out with AR10's that they had to petition the NRA to accept as legal Service Rifles. While they have done well with the new .308's at 1,000 yards I don't believe they use them for regular 200 to 600 yd. Across The Course shooting likely due to the heavy recoil trade off in the rapid fires. The Army Reserve stuck with the 90's a little longer. At about \$3,000 a pop for a custom AR10 the price tag for the Reserves was always going to be a hurdle we couldn't overcome. The Reserves didn't have the deep financial pockets of the AMU. I also felt that if we could get the 90 gr. Sierras to quit blowing up they

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would give us a decided advantage at 600 yds. without the recoil penalty of going to a .308. We had given up the old M14's years ago both because of excessive recoil in rapid fires and nagging maintenance issues. Nobody in their right mind wanted to go back to .30 caliber even for 1,000 yd. shooting much less Across The Course work. There was also no question that staying with the AR15 platform and just rebarreling the uppers to 6.5 twist would have a significant ergonomic advantage. While the AR10 is a Stoner platform it is not an exact duplicate of the AR15 and there are dimensional differences. The AR10 is much more similar to the AR15 than say an M14 which is completely different ergonomically. If you are the AMU and have 5 training days a week you can afford to spend one day shooting the AR10. Reserves and civilians don't have that training luxury.

So, I decided to work with the AR barrel manufacturers in hopes that we could come up with a "Sierra friendly" configuration. I had tried 2 gain twist barrels for controlling pressure earlier in my shooting career with the Reserves and I suspected that the slow beginning twist at the back of the barrel might help with the rough obturation that Sierra felt was the problem. I canvassed the barrel market and couldn't find a single U.S. source for gain twists. One of the companies I had purchased gain twist barrels from a few years prior had gone out of business and the other had discontinued gain twists. I sent inquiries to England, Australia, and Tim-Buck-Two and couldn't find anyone making gain twist rifle barrels. So I tried other avenues in my attempt to find a "Sierra friendly" barrel. I found most of the barrel makers to be very receptive and helpful in my quest. I am sure they could see the market potentials for profit for their companies as well. Polygonal rifling, 5R, even numbers of lands, odd numbers, you name it. Nothing was 100% reliable in retaining the thin Sierra 90 gr. jackets at a M.V of 2,650 fps. Had I been willing to back down my muzzle velocity 100 to 150 fps., however, and just use the bullet for 600 yds. I believe some of the barrels might have worked. Doing so would have been contrary to my vision of what was good for the Reserves, however: One gun with one load that would shoot at both 600 and 1,000 yds. I still believe that goal is compatible with the needs of civilians as well. Most civilians have limited training time and can't afford to splurge \$3,000 on a custom AR10 to shoot a couple of times a year any more than the Army Reserve could. While there were only 3 AR15 90 gr. barrel choices available originally there must be about a dozen now and all came into being due to Army Reserve involvement.

SWITCHING TO BERGERS

Reluctantly, I abandoned the Sierras and approached Berger. Berger, like most of the barrel companies, was very receptive and could see the potential market. They were already making a 90 gr. VLD. I shared with them the problems everybody was having with the jackets of the Sierras and we agreed that a thick jacket would be the ticket. I didn't have to wait long. The first 90 gr. Berger B.T. bullets even had the words, "Thick Jacket" written on the boxes to let shooters know it was not going to blow up. I torture tested the new bullet to death and couldn't get it to blow up. The Berger 90 gr. B.T. was a little more aerodynamic than the Sierra and had a higher B.C. Berger recommended a slightly slower start velocity of 2,600 fps. to keep the bullet supersonic and strong at 1,000 yds. (50 fps. slower than the Sierra M.V.) Initially I was a bit surprised when I found my primer retention to be more of an issue with the Berger while hitting only 2,600 fps. than with the Sierra at 2,650. Most of us would probably expect the reverse of that to occur (the faster Sierra to pressure more). I figured it could either be a bearing surface issue with the Berger or perhaps the thick jacket. So, the Berger bullet was 100% reliable with regard to jacket retention, accurate, but gave me chamber pressure problems at anything over 2,500 to 2,550 fps. depending on the specific barrel in question.

By this time in history Bartlein was making gain twist barrels. They call them "Transitional Rifling". Bartlein will make their barrel in either a 5R or a 4 groove. They can also supply .22 center-fire barrels with either the traditional .219" land or the tighter .218". While taller .218" lands pressure up a little more the accuracy offset is well worth the small sacrifice. I find the .218" land to be more accurate with all bullets I have tested. Back when I was still working with the Sierra 90 I had sat down with the plant manager from Krieger out at Perry one day for about an hour and brain-stormed ideas with him on ways to improve jacket retention. He had recommended cutting the groove just a tiny bit deeper than normal. .2245" vs. .2240". That helped with jacket retention but still didn't cure the problem. I noticed, however, that the slightly deeper groove helped cut pressure with no sacrifice to accuracy. I have carried that lesson with the Krieger barrel (they use the tall .218" land also) forward and order my Bartlein Transitional Rifled barrels with the same .2245" grooves. As stated previously, my rate of twist starts at 1:13" at the throat and doubles to 1:6.5" at the muzzle. Several factors

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conspire to create high chamber pressures. The first is accelerating the bullet forward. Weight of the bullet, powder charge and burn characteristics and other ammunition variables come into play. Throat lengths of the chambers, groove depth and width, land height and width must also be considered. The second factor is rotating the bullet. Slower twist rates at the front of the chamber result in less resistance to bullet rotation and lower pressures. Using my gain twist 1:13" X 1:6.5" configuration and the decreased pressure that results I can dump about ½ grain more powder into my cartridges which brings my velocity to the target 2,600 fps. I am told that calibers which are built around cartridge casings of higher volume than the wimpy .223 Rem. enjoy much greater powder increases. Up to 3 full grains in some examples like the .338 Lapua which have big cartridge casings. Reloaders are cautioned to proceed GRADUALLY upward from published safe loads, however, as each gun will be different. Err on the side of safety! RKS Ent. up in Canada makes 6 groove gain twist blanks which mirror the specs. for the Bartleins with similar reductions in chamber pressure while maintaining fine accuracy. Both companies will make blanks in either stainless or chrome molly. There is not much difference in price between the U.S. source and the Canadian one but the wait periods are different. My usual wait on the Bartleins is 3 to nearly 6 months. RKS often delivers in 1 to 3 months.

Fast forward from Pope's barrel making era about a century to the "modern" rifling methods. Most hunting rifle barrels and a fair number of military and custom barrels are rifled using the button method. As you know, the button method does not cut the grooves out but simply displaces metal in a swaging process. Button rifling is much faster to accomplish and that helps reduce costs as compared to cut rifling methods. One of the criticisms of the button method, however, alleges that the twist rates of some barrels can vary just a little, adversely impacting on accuracy. While the average hunter trying to bag a deer at 100 yards. or an infantry-man shooting at a similar sized 2 legged targets, usually at a similar modest distance, might not notice any accuracy degradation a number of high end military long range snipers and various competition shooters from Bench Rest to High Power and long range disciplines have greater accuracy standards.

As the legend was told to me someone made up a "twist rate checker" of some sort. Button rifled barrels were subjected to testing and some were found to vary a little in twist rate. A high correlation was found between accuracy and HOW the twist rate varied. Remember, these are uniform twist barrels that are supposed to have a uniform twist rate from back to front and not gain twists. Allegedly, barrels whose twist rate became a little faster toward the muzzle were more accurate than ones whose twist rate became slower from back to front (really undesirable) or barrels whose twist rate didn't vary at all.

Bartlein Barrels makes their barrels by the cut rifling method not the button method. Frank Green there at the Bartlein shop tells me that a fair number of the early orders for gain twists came from the Bench Rest discipline who had heard of the twist rate study. The bench rest guys are ordering barrels with the most modest rates of gain just to capitalize on the potential for improved accuracy. Remember, my AR barrels are going from 1:13" at the back to 1:6.5" at the muzzle (effectively doubling in less than 20" of rifling). The bench rest guys, whose barrels are probably longer, are only going from 1:12.25" at the breech say 1:12.00" at the muzzle. Only a ¼" gain in twist. We are seeing two different camps at work here. My Service Rifle Camp is looking at a more aggressive gain to reduce pressure and soften the obturation of the rear of the bullet. The Bench Rest Camp and some Palma shooters are hoping to harvest a little more accuracy and are less worried about pressure or bullet obturation.

Military Applications

We have all seen pictures of Gatling Guns used around the time of the Civil War. These were multiple barreled guns firing what, at the time, was a high volume of fire. Today's military has multi barreled weapons in certain aircraft that bear quite a resemblance to the old Gatling Guns. They are usually 20 or 30mm calibers and fire at way higher volumes than the Gatling Guns. Many of them are used as tank killers. The specifications for the guns state that the rifling must be "Progressive". I have not been able to determine the rate of gain used in the rifling of these guns, however.

Barrel heating in guns with extremely high rates of fire such as we are discussing is a major concern. I have had a number of conventional slow twist 1:12", 1:13", and 1:14" barrels that I used for shooting 55 gr. military ball ammo in my AR's. Accuracy was way better in such barrels than with military barrels having 1:7" twist rates. I also noticed that barrel

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heating was much less with the slower twist barrels. By starting the bullet spinning at a modest rate at the back of the barrel and then speeding it up at the muzzle I suspect that the military, in part, may be trying to deal with barrel heating in their rotary cannons. Gain twist is also said to work well with projectiles that have "driving bands" such as ammo fired in the cannons.

Barrel heating can be a real concern in some competitive shooting events such as the Infantry Trophy Match at Camp Perry where shooters can fire a full 30 round magazine from an AR15 in a matter of only 50 seconds. I would think that the right gain twist (something in the neighborhood of 1:16" X 1:8") Would be optimal in fighting barrel heating. Hot barrels can trick the shooter's vision by excessive barrel mirage. Hot barrels can also cause groups to shift location and get fatter. Not long after the American Civil War the Italian military adopted the Carcano rifle which had a gain twist barrel. As we all know Oswald used such a weapon to assassinate JFK.

Smith & Wesson's Views

Gain Twist has seldom been used in factory guns. A few years ago S&W broke with that tradition and introduced the Mdl. 460 SVR which is a heavy caliber hunting revolver with a factory gain twist barrel that starts at 1:20" at the back and finishes up at 1:10" twist at the muzzle. That is an aggressive gain. Like my AR barrels the pistol doubles its twist but in a shorter (just a shade over 8") distance. The stated reason that S&W gave for use of the gain twist barrel had to do with what they call "bullet skid". They believe that any bullet entering a "fast twist" barrel won't immediately begin to rotate. Instead they allege the bullet will skid along the lands for a little way before the lands engrave into the bullet (either lead or jacketed) and begin to rotate it. As the bullet is skidding it becomes deformed resulting in degraded accuracy. Note that the S&W revolver has a terminal 1:10" twist at the muzzle so the manufacturer has determined that 1:10" is the optimal twist rate to stabilize the bullets anticipated to be shot in the gun. If S&W has determined that bullets will skid in conventional barrels of that modest twist we can only imagine how much worse rifle bullets accelerating more rapidly will skid in faster twist barrels like 1:8" or 1:6.5" twist used by Service Rifle shooters. More skid: more deformation.

Rotational Torque

A couple of factors disturb the lay of the firearm as the bullet is traveling down the bore. The first is recoil and we are all familiar with that. It is a reaction to accelerating the bullet forward. Generally speaking heavier bullets result in more recoil and accelerating them faster exacerbates recoil even further.

Rotational torque, on the other hand, is a response to rotating the bullet. The firearm wants to "unscrew" in the opposite direction that the bullet is being forced to rotate. Right hand twists make the bullet rotate to the right and the firearm reacts to the left. Rotational torque is affected by twist rate, velocity, and bullet diameter. Fatter bullets have more circumference and more surface area. So they resist rotation more than skinny bullets. That means that, all other factors being equal, guns like the .45 ACP will have more rotational torque than guns shooting a skinnier bullet with less bearing surface area like a 9mm. Again, keeping all other factors equal, slow twist barrels result in less rotational torque than faster twist barrels. If you look at pictures or watch a one handed .45 hard ball National Match bullseye shooter in recoil you will notice that the pistol not only goes way up and off target but it also twists to the side, often by about 45 degrees. That twisting to the side is caused by rotational torque and to get back on target to fire the next shot the torque as well as the recoil have to both be overcome. If gain twist eliminates some of that torque then total recovery should be faster.

Uniform Gas Pressures

In a conventionally rifled barrel chamber pressures are high because we are trying to move the bullet forward while simultaneously getting it spinning. There is great inertial resistance to both. Then as The bullet moves forward the expanding gas fills the area formerly occupied by the bullet. Eventually, as this process continues and the bullet gets far enough forward pressures begin to subside a little. Gain twist does the opposite. Pressures still want to drop off as the bullet moves forward. However, as the bullet does so it keeps running into more and more resistance rotationally because the twist rate keeps going up and up the further the bullet moves toward the muzzle. So, gain twist barrels cause less initial pressure at the chamber but as the bullets move forward some of the resistance to the higher rotation

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works against the forward movement (which by itself would decrease pressure). So, throughout the entire travel from the chamber to the muzzle pressures are more consistent. That may result in better velocity standard deviations and less extreme velocity spreads. While I am getting good numbers in both categories with my gain twists I can't compare them to conventional rifling because I am no longer using any barrels other than gain twists.

Longer Barrel Life & Ease Of Cleaning

Gain twist has the potential to improve barrel longevity. Bullets get moving sooner. Chamber pressures decrease. This means that the hot cutting gases have less time to attack the back of the barrel which is the wear out area. Gain twist barrels operate cooler which should result in less fire cracking at the back of the barrel. As a former military armorer I have found that barrel wear out is extremely variable and difficult to predict, however. Barrel life was one of the stated reasons that the Italians adopted the gain twist in their Carcano's. I think accuracy should always be the deciding factor when evaluating barrels. Like one of my shooters once said to me, "Why would I want a poor shooting firearm to last a long time?"

I am not seeing the usual severity of bore fouling just forward of the chambers in my gain twist barrels. Bores still need cleaning but easier cleaning equates to less potential to damage the bore which is always a good thing.

The Future Of Gain Twist

I mentioned at the beginning of the article that gain twist has been on again and off again for over a century and a quarter that I am aware of, perhaps even longer. Today we have some really premium barrel makers turning out gain twists and I believe we better understand the improvements they can offer. My guess would be that gain twist will be around for quite a while into the future. Now that you know the advantages you may want to try one if a gain twist fits into the goals of one of your upcoming projects.

If you have questions regarding this article you may e-mail me at NCC1701@penn.com

Joe Carlos

Sources For Gain Twist Barrels:

1911 Style Semi Auto Pistol Barrels

Schuemann Barrels

P.O. Box 248, 416 N. Oak St.,
Bingen, WA 98605
509/493-3514
schuemann.com

Muzzleloader Barrels

Colerain Barrel Co.

3820 Spruce Creek Road
Spruce Creek, PA 16683
814/632-7513
scott@colerainbarrel.com

Rifle Barrels

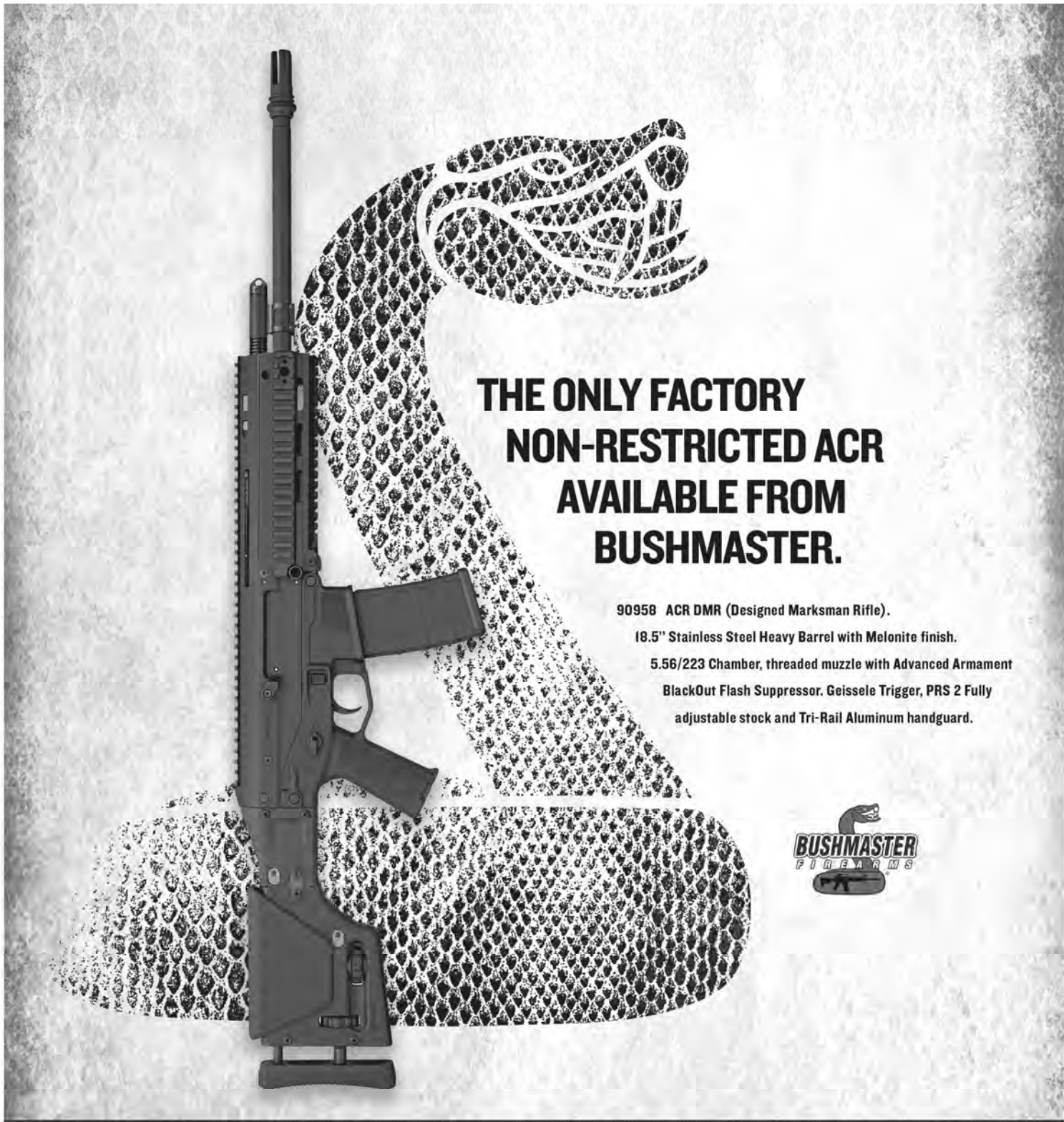
Bartlein Barrels

W208N16939 N. Center St.
Jackson, WI 53037
262/649-1574
www.bartleinbarrels.com

OR:

RKS Enterprises

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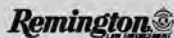
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POUDRE NOIRE A L'ASSOCIATION DE TIR DE LA PROVINCE DE QUEBEC

L'histoire a débuté à Québec, en 2009. J'étais alors un chasseur de chevreuil depuis quelques dix ans, mais en 2009, pour raisons professionnelles, j'ai manqué la période de chasse à la carabine. Un de mes patients m'a alors offert son territoire pour la période supplémentaire de chasse à la poudre noire.

Je ne connaissais RIEN à la poudre noire. Je me suis précipité au magasin d'armes à Québec pour acheter une arme à chargement par la bouche: un Savage 10ML-II à charger avec de la poudre moderne. Ce fut mon début en 'poudre noire' !

Toutes mes futures armes furent de "vraies" armes à poudre noire. D'abord un Ruger cal 45, puis un Gibbs longue distance et un Whitworth cal 45... Je tirais alors à une distance de 100 mètres.

J'entendis ensuite parler d'un autre champ de tir à Québec où on pouvait tirer à des distances allant jusqu'à 600 verges ! WOW ! Je suis devenu membre de l'ATPQ, sur le champ de tir Batoche de la base militaire de Valcartier. J'étais le seul à tirer de la poudre noire. Tous les autres tiraient de la carabine en classes TR, F-O, F-TR. Avec une arme à chargement par la bouche, je n'étais pas assez rapide pour les suivre. J'ai alors choisi de tirer le Sharps 45-70 avec des cartouches rechargées avec de la poudre noire. Ce fut le début d'une passion qui dure encore aujourd'hui !

Quelle expérience ! J'ai dû apprendre à couler des boulets de plus de 500 grains, calculer les diverses duretés du boulet selon le mélange plomb-étain, évaluer la qualité de différents moules, différentes formes d'ogives, différentes graisses, différentes compression de la poudre. etc. Mais quel BANG ! Quel spectacle que ce nuage de fumée ! Quelle odeur !

Le tout s'est enchaîné vers le tir à 900 mètres aux Championnats Canadiens à Connaught, avec 175 minutes d'élévation et de dérive variant de 0 à 35 minutes. Faire de la fumée dans le vent à une telle distance ! Quel défi à relever !

Merci à l'ATPQ pour maintenir la longue tradition (depuis sa fondation en 1869) de la discipline de la poudre noire, qui fait partie du DCRA, elle-même fondée en 1868. Merci au DCRA d'organiser des Championnats Canadiens annuels pour cette discipline !

Bienvenue à tous dans le merveilleux monde de la poudre noire longue distance !

Gérald Bergeron MD



SMOKE FROM THE PROVINCE OF QUEBEC RIFLE ASSOCIATION

The story began in 2009, in Quebec City. I had been a deer hunter for 10 years, but in 2009, for professional reasons, I missed the regular rifle hunting season. One of my patients offered me the chance to hunt on his land for the black powder season. I did not know a thing about black powder. I rushed to the gun store in Quebec City to buy a muzzle-loading rifle, a Savage 10ML-II to be loaded with modern powder. This was my start in 'black powder'!

All my future rifles were to be "real" black powder. First a Ruger cal 45, then a long-range Gibbs cal 45 and a Whitworth cal 45 ... At the time, I used to shoot at a distance of 100 meters.

Then I heard of another shooting range in Quebec City where we could shoot at distances up to 600 yards! WOW! I became a member of the PQRA, on the Batoche shooting range of the Valcartier military base. I was the only one who shot black powder. Everyone else shot in TR, F, F-TR classes. With a muzzle-loading rifle, I was not quick enough to keep up with them. I then chose to shoot the Sharps 45-70 with black powder loaded cartridges. This was the beginning of a never-ending passion!

What an experience. I had to learn how to cast 500 grains bullets, to test different hardnesses of bullets according to the lead-tin ratio, to evaluate the quality of different molds, different ogive forms, different greases, different powder load compression, etc. But what a BANG! What a smoke show! What a smell! This was the start of a long journey that led to the 1,000-yard Canadian Championships, with 175 minutes of elevation and windage ranging from 0 to 35 minutes. To make smoke in the wind at such a distance! What a challenge!

Thanks to the PQRA for keeping the long tradition (since 1869) of the black powder, also part of the DCRA since 1868. Thanks to the DCRA for organizing annual Canadian Championships for this discipline!

Welcome to all in the wonderful world of long distance black powder!

Gérald Bergeron MD



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2016 BCRA 300m Sierra ISSF Championship

The Mission Rod & Gun Club was pleased to host the BCRA Provincial ISSF Championship for 2016. Our course of fire this year had a possible score of 375-75v over two days which created a substantial shooting challenge. The normally variable B.C. spring weather cooperated this year.

The firing point is covered, but the light can be challenging with some shadows cast from the surrounding forest. Of course butt duty is not sheltered. This range does not have strong winds due to the surrounding forest but what there is can be quite fickle with multi directions and strengths occurring at the same time.

We had a solid entry with 30 competitors taking part. Our ISSF Champion this year is Jim Paton (374-51v), the F-Open winner is Brad Traynor (374-45v), the F-TR winner is Denis Lapierre (374-47v). We were fortunate to have four Under 25 shooters participate this year, three in the ISSF/TR category and one in FTR. Thomas Jones was our high junior in ISSF with a score of 360-26v.

We would like to thank Sierra Bullets for their generous donation of bullets. The bullet award and the Sierra banner definitely add to the atmosphere at this event. Our banner picture has become part of the tradition of 300 meter shooting here in BC. It is probably the only original banner still in existence and everyone wants to be a part of it.

-Dave Adams – ISSF Match Director 2016



**THE DOMINION OF CANADA RIFLE ASSOCIATION WOULD LIKE TO THANK
SIERRA BULLETS FOR THEIR ONGOING PARTNERSHIP, AND THEIR
CONTINUED SUPPORT OF CANADIAN SHOOTING SPORTS AT THE
PROVINCIAL, NATIONAL, AND INTERNATIONAL LEVEL.**

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2016 MPRA Sierra Championship

Due to the MPRA losing range dates in September and no metric targets on our electronic system, we shot the Sierra on DCRA target faces at 600 yards.

13 intrepid shooters braved awful light conditions and rain showers to shoot the Sierra on a Wednesday evening. It was a different experience but all enjoyed the experience shooting our first match on electronic targets.

Our thanks go to Sierra Bullets for their continued support and generous donation.

Name	Class	1st	2nd	3rd	TOTAL
Toset	FTR	72.9	74.6	73.7	219.22
Wiens	FTR	74.4	71.7	73.6	218.17
Robertson	FTR	72.5	72.3	72.4	216.12
Lindsay	FTR	69.3	71.8	70.6	210.17
Daeninck	FTR	70.2	69.3	70.3	209.08
Pratt	FTR	69.3	67.5	68.4	204.12
Perrier D	FTR	69.4	66.1	68.3	203.08
Paetkau D	FTR	64.1	70.4	67.3	201.08
Produuik	FO	75.8	74.5	74.7	223.20
Wyenberg	FO	75.12	71.9	73.10	218.31
Grant	TR	75.8	75.10	75.9	225.27
Chapman	TR	74.5	73.7	74.6	221.18
Sloane	TR	73.6	73.4	73.5	219.15

2016 RNBRA 300m Sierra ISSF Championship



Several shooters came out for the ISSF - 300m match - called the "Sierra Bullet Match". It was held immediately prior to the Mini-Palma, so the number of shooters was actually split between these two matches.

Thanks to Ron Surette and Michelle Cormier for running the match. Ron was also the RO.

Thanks also to the SIERRA BULLET Co. for donating the prizes - boxes of 30 cal. bullets. These were distributed to the winners (2) as well as every one who shot the match.

RESULTS - 300M - TR CLASS

Ron Surette - 188 + 191 + 184 = 563
Michelle Cormier - 186 + 185 + 189 = 560

RESULTS - 300M - FTR CLASS

Harrison Brown - 200 + 197 + 196 = 593
Mike Connell - 193 + 195 + 190 = 578
Brian Bastarache - 198 + 190 + 192 = 570

RESULTS 300M - FO CLASS

Mike Lutes - 195 + 187 + 197 = 579

Bert deVink



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BLACK POWDER 2016

I'm going to break precedent and forgo the usual detailed description of the results and circumstances surrounding the 2016 PBNC and get straight to the point: those interested in the specifics of the former are invited to view a detailed compilation of scores on a day-to-day basis at <http://www.dkra.ca/results/2016/CFRC/index.htm>. The latter is a little more complicated.

That said, I would like to recognize Cody Hicks of New York State for his excellent performance leading to the second BP Grand Aggregate win in what is shaping up to be a promising career in competitive shooting. Cody is to be congratulated, as is father Davis who I'm sure had no small part in his son's success on the range. Well done to both.

This year's matches were marred on the first day by rain of nearly Biblical proportions, which in turn predicated a number of situations that came to a head at the end of the competition, the consequences of which will potentially affect the manner in which these matches are run and administered in the future.

I will not deal directly with what happened... those present on the afternoon of the third day are fully aware of what occurred, who was involved, and what transpired afterwards. I will attempt to provide a synopsis of why (in my opinion) it happened, what could potentially be done to prevent future occurrences of this nature, and conclude with some personal observations and decisions which I must emphasize are mine and mine alone and should not be construed as being reflective of the opinions or policies of the Dominion of Canada Rifle Association.

Muzzle Loading target rifles have become an instrument of choice for those wishing to compete in black powder sports at an International Level, largely due to the constraints imposed by various nations on the ownership of cartridge rifles and the proscription on transshipment of assembled ammunition containing the propellant, particularly by air. Despite that, on this continent, those electing to use muzzle-loaders in matches that include cartridge rifles are often forced to do so at a disadvantage, usually in terms of relay times but in some instances without any potential for reward due to prize lists that ignored their accomplishments.

With this in mind, several years ago I took it upon myself to attempt to address this situation by segregating our matches into classes reflecting the three types of rifle common to BP shooting: Cartridge, Muzzle Loading, and most recently, Scoped. All are subject to eligibility for either Aggregate and individual awards contingent on participation in-class, the details of which are stipulated in our rulebook and the pre-match provided Program Booklet. That decision, along with the wording of the appropriate requirements for various levels of prizes, were made by me without adequate forethought, leading to the situation that confronted us this year.

First and foremost I did not suspect the literal interpretation of one phrase in the Program Booklet would lead one to believe in one's right to be rewarded for competing against one's self (although to be fair in atrocious weather conditions that led the rest of the field to not bother). Secondly, I did not foresee that our scoring software's inability to recognize the muzzle loading score in manner other than as an "Honours" list would result in the animosity it did.

Addressing the latter is beyond the ability of the Association at this time, but regardless of that is unnecessary in my opinion... we have neither the resources, or for that matter a compelling need, to re-invent our statistics software to address a miniscule component of the CFRC. Preventing the former is more complicated.

A rather animated discussion among the competitors after the event resulted in some observing that the muzzle loading fraternity feel slighted by not being allowed to compete on equal terms with cartridge shooters. Eliminating the distinctions between the two classes would be economically attractive (and have historic precedent) but for two considerations: someone, sooner or later, will complain that conditions, or relay times, or some combination of circumstances have conspired to render the muzzleloaders at a disadvantage, and secondly, what of those with scopes?

Those of a certain age may recall Clint Dahlstrom's detailed evaluation of the fairness of low power scopes in the context of their use in TR matches for those with failing eyesight, and the conclusion that up to 4 times magnification they offered no advantage over irons. Given our matches permit scopes of up to 6 times magnification I'm confident that a move to allow them to be used on equal terms against irons will lead to accusations of unfairness (despite the fact statistics and empirical evidence indicate otherwise).

BLACK POWDER 2016

I feel, unless a better proposal is put forward, that the current system is best for all concerned. The semantics of the requirements for participation in terms of the numbers participating in each category will need to be examined and altered to make them unambiguous. The reason and significance of our use of an "Honours" list for classes other than Cartridge will need to be explained and reiterated. It is not intended to be a slight, as some insist on seeing it, but unfortunately they persist in viewing it as such.

All of the preceding, as mentioned, is the result of errors on my part for which I assume full responsibility. However, there were other operational problems that arose not related to the situation in question that I found personally embarrassing that were also, directly or indirectly, due to abrogation of my responsibilities as Program Director. Reflection on this and other matters in the months following this summer's matches has forced me to re-examine my personal situation. My current source of employment has left me physically and psychologically drained, and increasingly unable to devote the attention expected of me when dealing with Program matters, particularly those pertaining to the proposed 2018 BP World Championship.

Unfortunately this situation, by all indications, will not improve. These factors, compounded by the situation encountered last summer compel me to resign as the DCRA BP Program Director. I accept completely the ramifications of this decision. Some have urged me to reconsider, and others have implied that they will cease participating if I am not leading the Program. With all due respect the latter attitude is ridiculous. Participation is the key to the continued success or failure of this sport, not the presence of a single administrator or personality. I would beg those feeling otherwise to reconsider.

I will offer the Association my recommendations for individuals I consider worthy of occupying the position, and will of course make myself available when I can to my successor if advice or counsel is desired.

In conclusion, I would publicly like to thank all who have offered support, guidance, and understanding over the course of the nearly decade and a half BP has been my responsibility. It is my fervent desire to continue competing as often as the realities of my personal situation allow, and, with luck, we'll cross paths in the future.

-Chris Jones



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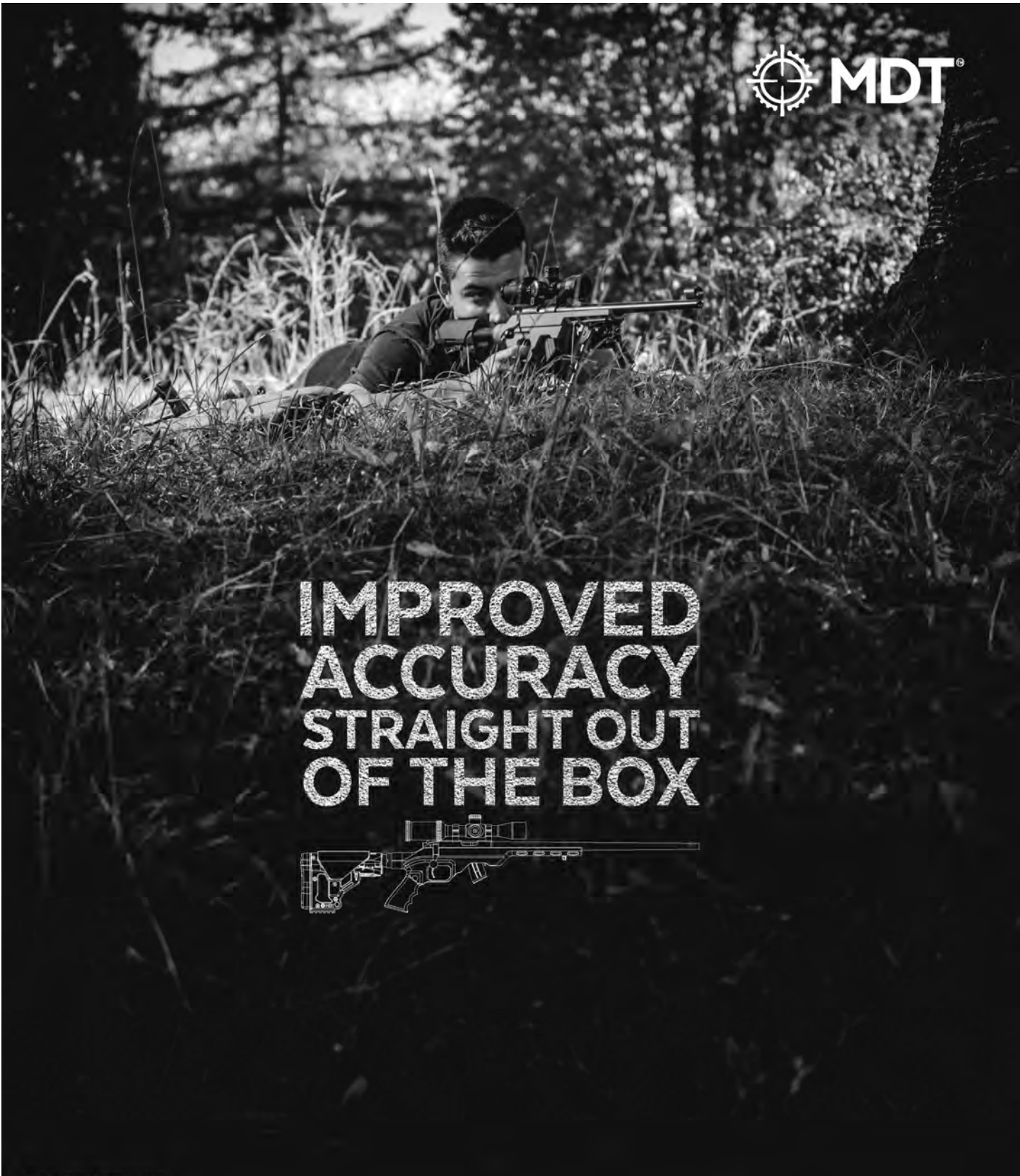
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5th ANNUAL F-CLASS NATIONAL CHAMPIONSHIPS

INTERNATIONAL TEAM MATCH

SOUTH AFRICA 1752 - 170v

USA 1744 - 155v

CANADA 1711 - 121v



Team South Africa

LUM MATCH

**F-OPEN
US F-OPEN BLUE
888 - 108v**

Mid Tompkins
Rhys Ireland
Emil Kovan
Barry Brazil
Steve Harp
Tony Robertson



**F-TR
USA SCHWARTZKOPF
871 - 74v**

Alan Barnhart
Jim Grissom
Ian Klemm
Morgen Fulmer
David Conrath
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	2+15 @ 1000 yds	
SATURDAY-1 JULY:	2+15 @ 800 yds	
	2+15 @ 900 yds	2+15 @ 1000 yds
	2+15 @ 1000 yds	
SUNDAY-2 JULY:	2+15 @ 900 yds	2+15 @ 1000 yds
	2+15 @ 1000 yds	

MATCH FEATURES

MAXIMUM ENTRANTS: - 42

INDIVIDUAL DCRA FULL OR ASSOCIATE MEMBERSHIP REQUIRED

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134th DCRA CANADIAN FULLBORE RIFLE CHAMPIONSHIPS

H.E. THE GOVERNOR GENERAL'S PRIZE

Angus McLeod

THE MACDONALD STEWART GRAND AGGREGATE—CDN OPEN TR CHAMPIONS

Angus McLeod

THE MACDONALD STEWART GRAND AGGREGATE—TOP UNDER 25 CANADIAN WINNER

Marian Patrick

THE CANADIAN TARGET RIFLE CHAMPIONS

Fazal Mohideen

THE CANADIAN MASTERS CHAMPIONSHIP

Fazal Mohideen

THE DES BURKE TARGET RIFLE AWARD

Fazal Mohideen

THE JOHN C. STACENKO AWARD

Mackenzie Corkum

THE PATRON'S

Angus McLeod

THE GERRY OUELLETTE AWARD

Faisal Rahman

THE MAJOR COLIN M. BROWN AWARD

Jalen Czuba

134th DCRA CANADIAN FULLBORE RIFLE CHAMPIONSHIPS

OTTAWA REGIMENT

Graham Nelson 75V10

GOODERHAM

Angus McLeod 50V9

CDN 223/556 CHAMPIONSHIP

Stan Frost 142V9
James Thompson (FF) 149V14

ARMY & NAVY VETERANS

Michelle Gallagher 97V7

TILTON

Gale Stewart 100V14
Paul Reibin (FF) 99V10

CHAMPLAIN AGGREGATE

Charles Dickenson 225V23

SIERRA LONG RANGE I

Mark Trew 75V9

SIERRA LONG RANGE II

Rained Out

SIERRA LONG RANGE III

Rained Out

SIERRA LONG RANGE IV

Rained Out

SIERRA LONG RANGE AGG

Mark Trew 75V9

MACDOUGALL

David Calvert 100V14
James Thompson (FF) 100V11

NORMAN BECKETT

Lindsay Peden 100V12

JOHN C. BRICK

Shane Barnhart 100V16

DICK HAMPTON AGG

Lindsay Peden 200V25

LETSON

Angus McLeod 105V16

ALEXANDER OF TUNIS

James Paton 50V9

JACK GORRIE AGG

David Crispin 155V22

KLONDIKE AGG

David Calvert 454V59

PRESIDENT'S

Shane Barnhart 150V25

GIL BOA AGG

Mike Barlow 200V20

GIBSON

Mike Barlow 150V15

SHORT RANGE AGG

David Calvert 235V39

MAPLE LEAF AGG

Angus McLeod 370V52

MCCULLOCH

David Calvert 604V82

STREET

Armando Coello 72V5

GATINEAU

James Paton 75V11

GZOWSKI AGGREGATE

Ben Dombrowski 224V15

CDN ARMED FORCES TR CHAMP

Peter Westlake 811V73

POLAR BEAR AGG

James Paton 591V74

S.J. PERRY

Ric Melling 149V11

CONNAUGHT AGG

Armando Coello 290V25

MFC WALKER AGG

James Paton 125V20

JOHN STACENKO AWARD

Mackenzie Corkum 942V53

MILROY AGGREGATE

Not Shot

CANADIAN LADIES CHAMPION

Nicole Rossignol 823V108

FARQUHARSON TROPHY

James Thompson (FF) 780V102

AGGREGATE OF 21ST CENTURY

Angus McLeod TOP TR 1198V145
Cameron Pirouet TOP EX 1169V98
Harry Goddard TOP SS 1150V97
Ian Guy TOP GS 895V57

ALL COMERS AGG

Angus McLeod 605V86
James Thompson (FF) 602V79

TEAMS

FAMILIES

Ginger & Snowflake 297V32

SENIOR/UNDER 25 PAIRS

Amanda Elsenboss
Ben Chamberlain 1197V131

PROVINCIAL

Not Shot

IMPERIAL TOBACCO

Mons Gold 3272V332

CHAMPION PAIRS

Amanda Elsenboss
Daniel Blake 1642V182

134th DCRA CANADIAN FULLBORE RIFLE CHAMPIONSHIPS

CADETS, JUNIORS & UNDER 25

CDN CADET TR CHAMP

Jalen Czuba 800V55

CADET BISLEY AGG

Michael Vinarski 733V51

BREWERS ASSOCIATE

Mackenzie Corkum 589V40

CDT/JR OPEN SHORT RANGE

Chloe Jones 600V64

CDT/JR OPEN TR CHAMPION

Chloe Jones 818V85

COULTER

Chloe Jones 600V64

HARRISON

Jason Pepera-Hibbert 219V17

OTTER

Chloe Jones 818V85

MICHAEL FARADAY

BCRT 1221V97

CADET BISLEY AGGREGATE

Michael Vinarski 733V51

Mackenzie Corkum 732V46

Maya Naidu 727V59

Ian Guy 726V49

Hanna Glawson 723V45

Melissa Clark 722V50

Danlin Zhou 721V62

Zach Flavell 720V51

Dillan Rigby 720V46

Julie Kavanagh 719V49

Jeremy Desjardins 719V45

Wesley Lam 717V57

Daniel Hewitt 717V55

Danny Laflamme 717V52

Mason Harvey 717V47

Yang Liu 709V46

Alex Huang 708V45

INTERNATIONAL TEAM MATCHES

INT'L UNDER 25 LONG RANGE

GB U-25 773V70

INT'L UNDER 25 SHORT RANGE

GB U-25 1173V113

COMMONWEALTH

GB 1194V138

LANSDOWNE

British Army 590V56

OUTLANDER

USA 585V51

CANADA MATCH

Great Britain 1191V140

INTERPROVINCIAL TEAM MATCHES

LADIES PAIR

Red White and Blue 300V35

STEINHARDT

Ontario 388V38

VETERANS TEAM

No award

MACDONALD STEWART GRAND AGGREGATE

MACDONALD STEWART GRAND AGG

Angus McLeod 826V101

TOP GS - WESTHEAD TROPHY

Mackenzie Corkum 799V47

TOP SS - STRACHAN TROPHY

Harry McCaughey 808V73

TOP EX - ROYAL RIFLES TROPHY

Ben Dombrowski

HIGH U25 CDN - W.M. STEWART AWARD

Marian Patrick 808V74

MS GRAND AGG-FF

James Thompson 780V102

TOP LADY-TESS SPENCER AWARD

Nicole Rossignol 823V108

RUSSELL G. POTTER MEMORIAL

Harry McCaughey 808V73

FRANCIS JERMEY AWARD

Shellyann Hinds

GOVERNOR GENERAL'S FINAL— 2016

1 Angus McLeod	UK	299V36	25 Amanda Eisenboss	USA	292V23
2 Fazal Mohideen	CAN	299V28	26 Nicole Rossignol	CAN	291V37
3 Emil Praslick	USA	297V36	27 William David Adams	CAN	291V32
4 Peter Westlake	CAN	297V21	28 Kent Reeve	USA	291V30
5 Patrick Vamplew	CAN	296V34	29 Mahendra Persaud	GUY	291V26
6 Jeremy Tuck	UK	295V35	30 Graham Nelson	UK	291V25
7 Ian Hogg	CAN	295V29	31 David Rose	UK	291V24
8 Shane Barnhart	USA	294V39	32 John Deane	UK	290V21
9 James Paton	CAN	294V37	33 Scott Peterson	USA	290V20
10 Jon Underwood	UK	294V36	34 Daniel Chisholm	CAN	290V19
11 Peter Church	USA	294V32	35 Nick Healy	UK	289V26
12 David Calvert	UK	294V31	36 Scott Fulmer	USA	289V22
13 Ellie Joseph	UK	294V30	37 Rory MacLeod	UK	288V26
14 Lindsay Peden	UK	294V29	38 Alan Ferguson	CAN	288V25
15 Henryk Golaszewski	UK	293V31	39 Matt Charlton	UK	288V24
16 Chloe Jones	UK	293V30	40 David Dyson	UK	288V24
17 Faisal Rahman	CAN	293V27	41 Gary Bendik	CAN	288V22
18 Cameron Pirouet	UK	293V26	42 Marcel Kolb	CAN	288V21
19 Mirko Teglas	AUS	292V28	43 David Crispin	UK	287V30
20 Brian Mrnak	USA	292V27	44 Harry Goddard	UK	285V26
21 Bernard Pepin	CAN	292V26	45 Daniel Blake	UK	285V22
22 Gale Stewart	CAN	292V26	46 Paul Tremblay	CAN	285V19
23 Steve Penrose	UK	292V25	47 Colin Skellett	UK	282V23
24 Mike Barlow	UK	292V25	48 Catherine Choquette	CAN	275V17



Competitors in the Governor General's Final

GOVERNOR GENERAL'S FINAL— 2016



2016 Gov's winner Angus McLeod being chaired off the range

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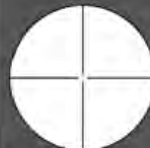


BERGER & BULLETS

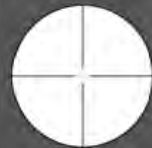
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CANADIAN TARGET RIFLE CHAMPIONSHIP — 2016

1 Fazal Mohideen	ON	972V103	26 Jeffrey Jenkins	NS	934V67
2 James Paton	BC	968V119	27 Steven Spinney	ON	933V76
3 Mirko Teglassi	AUS	966V102	28 Stan Frost	SK	933V75
4 Patrick Vamplew	ON	966V100	29 Thomas Maynard	ON	933V62
5 Nicole Rossignol	QC	965V125	30 Deen Mohideen	ON	931V79
6 Robert Pitcairn	BC	959V94	31 Paul Dudzinski	BC	931V66
7 Gale Stewart	QC	959V92	32 Ric Melling	HK	930V63
8 Faisal Rahman	ON	959V88	33 Bianca Fung	ON	926V59
9 Marcel Kolb	NS	959V78	34 Marc Landreville	ON	920V50
10 Peter Westlake	ON	958V79	35 Gary Bowman	ON	919V57
11 Alan Ferguson	NS	955V95	36 Gian Garro	ON	917V44
12 Ian Hogg	PEI	954V105	37 Michaela Burke	NL	914V62
13 Des Vamplew	ON	954V95	38 Jacques Dugas	QC	899V101
14 Bernard Pepin	ON	954V87	39 Ben Dombrowski	ON	887V83
15 Daniel Chisholm	NB	954V78	40 Amy Peters	ON	887V41
16 Paul Tremblay	QC	951V80	41 Steven Levesque	QC	804V80
17 Gary Bendik	ON	951V78	42 Jalen Czuba	ON	800V55
18 Marian Patrick	ON	950V87	43 Mackenzie Corkum	NS	799V47
19 Scott Murray	ON	950V85	44 Cheryl Hearn	NL	797V53
20 William David Adams	BC	949V91	45 Remi Rousseau	QC	796V68
21 Antony Betts	ON	949V74	46 Ian Guy	ON	796V50
22 Mahendra Persaud	GUY	948V86	47 Justin Hearn	NL	795V58
23 Serge Bissonnette	ON	945V76	48 Danlin Zhou	ON	793V62
24 Don Coleman	NB	941V78	49 James Lawson	ON	791V51
25 Catherine Choquette	ON	934V72	50 Mat Makin	ON	790V60



Des Vamplew and Alain Marion commiserating during CFRC



Gary Bowman stopping in to visit Kathy in the DCRA office

NSCC 2016

I first participated in a Dominion of Canada Rifle Association (DCRA) National Service Conditions Competition (NSCC) in 2011. I had been chosen by Land Force Western Area to Captain the LFWA Reserve Small Arms Team and get it prepared for the Canadian Forces Small Arms Concentration (CFSAC). I was a Chief Warrant Officer with The Canadian Scottish Regiment (Princess Mary's), just back from Afghanistan and had been the unit FATSO (a great acronym that meant FireArms Training System Officer - they changed it to SATSO - Small Arms Training System - for some unknown reason...) and my civilian background was that of a Police Firearms Instructor and Simunition trainer.



I included the British Columbia Rifle Association (BCRA) Provincial Service Conditions Match in Chilliwack in May as part of the initial team training and selection, and utilized the NSCC in August for final selection and training. I was impressed by the conduct and professionalism of both the BCRA and the DCRA and both matches provided excellent training and experience for the Area Team. When we got to Connaught I had the entire team shoot all parts of the NSCC; pistol, service rifle and precision, which not only provided great experience for the young shooters, but allowed us to determine our final teams for CFSAC.

Not wishing to miss out, I also shot all matches and especially enjoyed the precision match. That year we shot the C7 back to 800 meters, which I felt was a valuable experience as it built confidence in individual skills, and demonstrated the capability of the C7 rifle. It was interesting to observe the ballistics from 800 meters, but mostly it amazed everyone at how accurate the rifle was even at that distance. There were issues at that range with the C7 however; scores were slightly increased due to the elongated bullet holes and the dropping trajectory, and the butts crew had an exciting time as some bullets dropped into the target pit just past the overhead cover. Consequently, the long-range match for service rifle was eventually dropped for safety reasons.

I returned in 2012 and 2013 as the 3 Division Reserve Small Arms Team Captain, and after surviving those tumultuous concentrations, was then asked to return in 2014 as the Pistol Range Safety Officer for CAFSAC. I turned the 3 Div Team Capt duties over to Capt Eric Storm of the 39 Engineers and was RSO for CAFSAC Pistol for both 2014 and 2015. During those years I continued to observe the NSCC matches, gleaned insight from the DCRA examples on how to conduct and organize effective ranges.

I retired from the Reserve Army in May of 2016 after 42 years of service. I enjoyed five gratifying years at CAFSAC working with the BCRA and DCRA, and formed many friendships with Canadian and International shooters and coaches. I thought that was the end of Connaught for me until I received word from the DCRA that they required a Chief Range Officer for the 2016 NSCC. I jumped at the opportunity to work with all the folks at the DCRA and to reconnect with my shooting friends and acquaintances. My experience as CRO was great, but a lot more work than I anticipated. I learned firsthand how much time and effort the past organizing staff had put in, and gained an appreciation of how demanding the job is and how dedicated they are.

I also noted how little staff was available to do the endless tasks and heavy lifting, being used to large numbers of willing troops available to do the myriad tasks. Thankfully DCRA Director Don Haisell was able to draw on his friendships and relationships from his past military career and we were provided willing staff from the military. Keen and skilled Armed Forces personnel were assigned to us to take on the positions of Assistant Range Officers, Butt NCOs, and General Duties pers for numerous tasks and essential duties, including stats assistance. We are very grateful to the military for providing these fine troops who gained experience and learned how to conduct a range in preparation for the CAFSAC.

I had organized and run a number of Brigade and unit ranges in the past, and all were conducted in a standard Armed Forces format, so I was not used to the differences I encountered in a civilian-run match. Even after shooting the NSCC in 2011 and 2012 I was unfamiliar with the preparation time allotted prior to each match, and not used to the 2 sighting shots afforded prior to most matches. If you shot the rifle matches you surely noticed the number of times I had to be reminded about sighters...it only took five days of constant reminding before I finally remembered...I blame it on aluminum mess tins in my youth.

I was asked to recommend any changes that I thought might make the NSCC run more smoothly. I think the biggest stressor we had during the shoot was the lack of time to get all the matches in prior to meal times, particularly with the larger number of shooters attending the NSCC each year. More shooters increases the match times simply due to volume, more challenges, longer time to collect all the scores for radio stages, and longer times to move the masses from

NSCC 2016

the butts to the firing point. Timing is important as we have to provide everyone the same opportunity to shoot all matches under similar conditions, which is difficult to achieve if we go late in the day. Each year we have to put pressure on our helpful mess staff to hold dinner longer for us, which I believe we should strive to avoid in future.

I would suggest a simple way in which the time crunch might be relieved a bit, though it is contentious, is to reduce the number of sighting shots for each match. Instead of having two sighting shots for each stage, just have two sighting shots for each application stage. I would also suggest preparation time be reduced from the 2 minutes currently afforded to one minute, or a shorter time when it is obvious everyone is ready. These two time cuts would provide a saving of approximately 40 minutes for each morning and afternoon session. This year we were able to save time on the pistol matches due to our Butts NCO – John Todd, rearranging the order in which we shot the matches, saving time by effectively reducing the number of target and face changes.



Service Pistol Range Staff

Of course, none of the suggested changes will be implemented or even considered unless agreed upon by competitors, and blessed by the DCRA permanent staff, but if we can save some time without adversely affecting the shooters experience, I believe these minor changes will improve the overall efficiency and conduct of the matches.

I appreciated the comradery, patience, and friendship of the staff and shooters who made the experience a pleasure, and thank all those who put up with me and assisted me throughout the busy NSCC event. I know, with the current staff and leadership in the DCRA, the NSCC will continue to be a professional, popular, well run, and effective competition, and the best training possible for all those carrying on to the Canadian Armed Forces Small Arms Concentration.

*Randy Evans
Capt (Ret)*



Repeat SR winners Ryan Steacy and Cpl. S. Friesen being chaired off the range.



Members of the Bruce Power NRT and the Canadian Armed Forces on the 100 firing point.



Ryan Steacy and partner Graeme Foote (not pictured) during the "Rapid Follow-Up"



CRO Randy Evans on the Service Pistol range

**NATIONAL SERVICE CONDITIONS CHAMPIONSHIP
PRECISION/SNIPER MATCHES**

	<u>OPEN</u>		<u>CAF DM</u>	
MATCH 60	Mike Bird		Cpl Lam	
	Dan Pedulla	100.014	Cpl Johnson	80.003
MATCH 61	Mike Bird		Cpl Garvie	
	Dan Pedulla	96.009	Sdt Roy-Gauvin	59.003
MATCH 62	Tomasz Bledowski		Sgt Nault	
	Terry Perkins	93.006	Cpl Lafortune	84.002
MATCH 63	Graeme Foote		Cpl Mac-Durand	
	Ryan Steacy	98.009	Cpl Blair	82.004
MATCH 64	Tomasz Bledowski		Cpl Thepmontry	
	Terry Perkins	98.009	Pte Kellenberger	70.001
MATCH 65	Alex Tkalitch			
	Yvan Caron	94.008		
MATCH 66	Tomasz Bledowski			
	Terry Perkins	95.008		
MATCH 68	Alex Tkalitch		Cpl Garvie	
	Yvan Caron	93.008	Sdt Roy-Gauvin	41.002

TYRO CHAMPION

David Nicol - Open
Pte Munro - CAF/DM

INDIVIDUAL PRECISION/SNIPER RIFLE CHAMPION

Tomasz Bledowski - Open

INDIVIDUAL DESIGNATED MARKSMAN CHAMPION

2Lt Bouffard-Pepin - CAF/DM

PRECISION/SNIPER RIFLE TEAM OF FOUR

INCONSIDERATE BASTARDS (Dave Dixon, Steve Van Kessel, Terry Perkins & Tomasz Bledowski) - Open

DESIGNATED MARKSMAN TEAM OF FOUR

2 Div Res 2 (Sdt Beaudoin, Sdt Faucher, Cpl Gilbert & Cpl Tornini) - CAF/DM

CANADIAN NATIONAL PRECISION/SNIPER RIFLE PAIRS CHAMPIONS

Tomasz Bledowski & Terry Perkins - Open

CANADIAN NATIONAL DESIGNATED MARKSMAN RIFLE PAIRS CHAMPIONS

Cpl Marcoux & 2Lt Bouffard-Pepin - CAF/DM

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**NATIONAL SERVICE CONDITIONS CHAMPIONSHIP
SERVICE/TACTICAL PISTOL MATCHES**

<u>CAF/TYRO</u>		<u>CAF/RCMP</u>	<u>SERIES A</u>	<u>OPEN</u>	
Bdr S-F Garon	99.011	Cpl Valcour	MATCH 20 100.015	Jordan MacDougall	100.015
Pte Munro	39.000	CplC Camiré	MATCH 21 48.000	Jordan MacDougall	50.002
Cpl Polcarpio	60.009	Cpl Valcour	MATCH 22 60.012	Rick Katigbak	60.011
Cpl Martel	74.008	Cpl Wright	MATCH 23 75.014	M Allen	75.013
Cpl Greschner	82.000	Cpl Wright	MATCH 24 91.006	Jordan MacDougall	98.008
Cpl Sakr	97.005	Cpl Valcour	MATCH 25 100.018	Sgt MacFarlane	100.019
Cpl Cole	94.006	Cpl Roy	MATCH 26 99.010	M Allen	100.016
Cpl Appleby	91.003	Cpl Calvour	MATCH 27 99.014	Jordan MacDougall	100.014
Bdr Garon	141.016	Cpl Valcour	MATCH 28 150.025	Sgt MacFarlane	150.026

			<u>SERIES B</u>		
Cpl Blackburn	95.007	Bdr Doucet	MATCH 30 100.013	Jordan MacDougall	100.018
Cpl Boulé	45.001	Cpl Boutin	MATCH 31 50.005	M Christianson	50.006
Cpl Blackburn	60.005	Cpl Valcour	MATCH 32 60.011	Rick Katigbak	60.012
Bdr Garon	73.010	Cpl Valcour	MATCH 33 75.014	Rick Katigbak	75.013
Bdr Garon	74.001	Cpl Valcour	MATCH 34 96.007	L Garcia	96.009
Cpl Castro	91.002	Cpl Valour	MATCH 35 99.015	Sgt MacFarlane	100.013
Bdr Garon	96.011	Cpl Valcour	MATCH 36 100.015	Sgt McFarlane	100.020
Cpl Lafortune	92.004	Cpl Valcour	MATCH 37 99.014	Sgt Dallaire	100.013
Cpl Blackburn	142.012	Cpl Valcour	MATCH 38 150.021	M Allen	150.022

			<u>SERIES A AGG MATCHES 20-28</u>		
Sdt Roux	729.039	Cpl Wright	811.083	Sgt Dallaire	819.100

			<u>SERIES B AGG MATCHES 30-38</u>		
Cpl Blackburn	737.047	Cpl Valcour	815.108	Jordan MacDougall	821.116

MATCH 40 LAST ONE STANDING
Jordan MacDougall

		<u>SERVICE PISTOL TEAM</u>	<u>OPEN</u>	
CAF/RCMP	Ham & Cheese Sandwiches Cpl Perron, Cpl B Wright, Cpl Uygen, Cpl Rayment			Bruce Power NRT 1 M Allen, K Nutma, J MacDougall, M MacFarlane

		<u>TYRO CHAMPION</u>	<u>OPEN</u>	
CAF/RCMP	Bdr Garon			Jordan MacDougall

NATIONAL SERVICE CONDITIONS CHAMPIONSHIP SERVICE RIFLE MATCHES

<u>CAF/TYRO</u>		<u>CAF/RCMP</u>		<u>OPEN</u>	
			MATCH 1		
Gnr Dixon	50.001	Sgt Nault	50.005	Sgt Luc Voyer	50.009
			MATCH 2		
Bdr Garon	49.006	Bdr Garon	49.006	Cpl Michaud	49.008
			MATCH 3		
Sdt Beaudoin	49.006	Sdt Beaudoin	49.006	Bdr Doucet	50.008
			MATCH 4		
		Cpl Roy	50.003	Cpl Courville	50.005
			MATCH 5		
Sgt Leblanc	48.004	Cpl Lam	50.007	Sgt Luc Voyer	50.009
			MATCH 6		
CplC Fortin	50.002	CplC Fortin	50.002	Sgt Luc Voyer	50.008
			MATCH 7		
Pte Munro	50.003	MCpl Hall	50.006	Rick Katigbak	50.007
			MATCH 8		
Cpl Lafortune	49.005	Cpl Lafortune	49.005	Sdt Faucher	50.004
			MATCH 9		
Cpl Cole	50.002	Cpl Cole	50.002	Ryan Steacy	50.008
			MATCH 10		
Cpl Thompson	48.002	Cpl Lam	49.002	Ryan Steacy	50.006
			MATCH 11		
CplC Plourde	49.005	CplC Plourde	49.005	Ryan Steacy	49.006
			MATCH 12		
CplC Plourde	50.004	CplC Plourde	50.004	Ryan Steacy	50.005
			MATCH 13		
Cpl Castro	49.004	Cpl Castro	49.004	Ryan Steacy	50.008
			MATCH 14		
		Sgt Nault	48.005	Pte Kelly	50.002
			MATCH 15		
Pte Kellenberger	47.002	Bdr Doucet	50.002	Ryan Steacy	50.008
			MATCH 16		
Cpl Lafortune	48.003	Cpl Herriot	49.002	Ryan Steacy	50.006
			MATCH 17		
Cpl Blackburn	234.017	Cpl Gomes	238.013	Maj Sly Caron	243.019

**NATIONAL SERVICE CONDITIONS CHAMPIONSHIP
SERVICE RIFLE MATCHES**

<u>CAF/TYRO</u>		<u>CAF/RCMP</u>		<u>OPEN</u>	
			DELIBERATE		
Cpl Thomson	189.014	Cpl Thomson	189.014	Sgt Luc Voyer	199.028
			SNAP AGG		
CplC Plourde	184.009	Cpl Michaud	187.019	Sgt Luc Voyer	192.017
			RAPID AGG		
Bdr Garon	183.007	Cpl Sol Friesen	185.011	Ryan Steacy	196.023
			FIRE & MOVE		
Bdr Garon	186.011	Cpl Valcour	192.016	Ryan Steacy	198.016
			200 PHASE AGG		
Sdt Beaudoin	192.016	Sdt Beaudoin	192.016	Sgt Nault	196.016
			300 PHASE AGG		
Cpl Blackburn	187.015	Cpl Sol Friesen	193.012	Sgt Luc Voyer	198.026
			400 PHASE AGG		
CplC Plourde	191.014	CplC Plourde	191.014	Ryan Steacy	199.025
			500 PHASE AGG		
Capt Luciak	181.008	Bdr Doucet	184.004	Ryan Steacy	199.026
			STAGE 1 AGG		
Bdr Garon	720.040	Cpl Friesen	751.051	Ryan Steacy	779.086
			STAGE 2 AGG		
Cpl Policarpio	189.011	Cpl Policarpio	189.011	Ryan Steacy	199.018
			TYRO CHAMP		
		CplC Plourde		Bdr Garon	

CANADIAN NATIONAL SERVICE CONDITIONS RIFLE CHAMPION

CAF/RCMP

Cpl S Friesen

OPEN

Ryan Steacy

CANADIAN NATIONAL THREE GUN CHAMPION

Sgt Luc Voyer

SERVING COMMISSIONED OFFICER AGG

Sous-Lieutenant Bouffard-Pepin

STAGE 1 TEAM

2 CAN DIV 3

CplC Massé,
CplC Fortin,
Bdr Garon,
Cpl Roy

The Whiz Bangs

Dave Oakie,
Dave D'Angelo,
Tom Krahn,
Ryan Steacy

DES BURKE

Sdt Faucher

550 BADGE

Ryan Steacy	Maj Sly Caron	Sgt Luc Voyer	Bdr Aubé
Cpl Michaud	WO David Oakie	Bdr Doucet	

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CANADIAN INTERNATIONAL TEAMS

The International Teams section of the DCRA web site is regularly updated. Members are strongly encouraged to refer to the site for the most recent information on Canadian Teams.

Future Events

Bisley 2017

Roger Mullin has been appointed as the Team Commandant, with David Adams as Adjutant.

Bisley 2018

David Adams has been appointed as the Team Commandant, with Peter Dobell as Adjutant.

Canadian Under 25 Team to South Africa in March 2017

The Canadian Under-25 Team will compete in South Africa in March 2017. Patrick Champagne has been appointed as Captain.

Goodwill Team to Guyana, October 2017

The DCRA Executive Committee has approved the formation of a Goodwill Canadian Team to attend the 150th Anniversary Meeting in Guyana in October 2017. Tom Maynard has been appointed as Captain.

F Class World Championships, Connaught 2017

Eric Bisson has been appointed as Captain of the Canadian Team for these F Class World Championships; Scott Bissett has accepted the position of FCWC Match Director; Kenny Proulx is the DCRA F Class representative to ICFRA; Matt Wolf is Chairman of the DCRA F Class Sub-Committee. For information, the 2021 FCWC will be held in South Africa.

The Canadian and DCRA 150th Anniversaries in 2017 and 2018. Planning for special events is under way. Suggestions will be most welcome, as will be volunteers to assist in the programme. The coordinators are Scott McGinnis and Scott Bissett.

Commonwealth Games, Gold Coast, Australia, 2018.

The dates of the Games are 4 – 15 April 2018. The shooting events will be conducted on the Belmont Range, Brisbane. The Second Stage of the Selection Trial was to be concluded during the CFRC in August 2016. However, adverse weather has forced a postponement to 2017. The final stage will be fired on Saturday 19 August 2017. Further details will be distributed to all those involved and will be posted on the web site. The Commonwealth Shooting Federation Fullbore Championships will be held at Belmont, in late October 2017.

Commonwealth Games, South Africa, 2022. At this time, it is still not known whether there will be any shooting events at all, or, if there are, whether Fullbore will be included.

ICFRA World Long Range Championships, Trentham Range, Wellington, New Zealand, 2019

Fazal Mohideen has been acclaimed as the Canadian Team Captain and Coordinator. He has now appointed Peter Dobell as his Adjutant. Cheryl Hearn has been acclaimed as Under-25 Team Captain. Serge Bissonnette has been elected as Veterans Team Captain. The preliminary schedule indicates that the New Zealand Championships will start on 26 January, with the Palma Match being concluded on 10 February, 2019. Lead-up events will be held from 27 January to 4 February 2018. Please consult the web site and upcoming issues of the Marksman for further information.

Nominations for and Appointments of Team Officers

At the DCRA Council Meeting to be held on 2 April 2017, the following appointments are to be made. Nominations are made at the time of the meeting.

- Captains of the Canadian Teams at the 2017 Canadian Championships:
- Commonwealth Match
- Canada Match
- Under-25 Team Matches at the CFRC
- Veterans Team Matches at the CFRC
- International F-Class Matches at the FCNC

CANADIAN INTERNATIONAL TEAMS

Call for Nominations – Bisley 2019

Nominations are invited for the positions of Commandant and Adjutant of the 2019 Bisley Team. Further details are on the web site. Any full member of the DCRA, in good standing, is eligible for nomination, but the nominators must be current members of Council. **The deadline for receipt of completed nominations in the DCRA is 1 May 2017.** If necessary, a postal ballot amongst members of Council will be held.

Call for Nominations - F-Class World Championships 2021 (South Africa)

Nominations are invited for the position of Team Captain of the 2021 Canadian F-Class Rifle Team to the World Championships in South Africa. Further details are on the web site. Any full member of the DCRA, in good standing, is eligible for nomination, but the nominators must be current members of Council. **The deadline for receipt of completed nominations in the DCRA is 1 May 2017.** If necessary, a postal ballot amongst members of Council will be held.

Review of International Teams Priorities

The Executive Committee has mandated that the Committee review the DCRA's priorities for International Teams – with regards to types of events, performance, and funding. This matter is in hand. There will be reports on this in the future.

I am always happy to receive information about our international activities and will report on them in future issues and on the web site.

*Jim Thompson,
Committee Chairman*



THANK YOU TO OUR SPONSORS!



2017 BISLEY TEAM

The 2017 Bisley team is, to all intents and purposes, constructed and I am looking forward to leading this fine group of men and women to England in July. We have a full compliment of shooters with a good mix of experience and youthful enthusiasm. Also, we have probably the largest group of female markspersons that have ever gone on a senior team and I am expecting great things from that quarter. Alain Marion is our head coach and will be assisted by many others including Peter Westlake. Dave Adams, who will coincidentally be leading the 2018 Bisley team, is serving in the thankless position of adjutant. Jack McKellar is our technical man.

Unfortunately we have no F class contingent this year. In all likelihood this is due to competition with the World event being held in Ottawa later this summer. I think the average Canadian F class shooter is hoping to attend those events. It is important for F class readers to keep in mind that all Bisley teams have space for F class competitors to attend Bisley as full members of the team to take part in the international F class team events held there during the Bisley meeting and they should avail themselves of this fact in future years. Canadian F class team members in the past have acquitted themselves remarkably well.

Normally we have logistical problems because our stay at the Canadian pavilion overlaps with a Canadian Forces team so accommodation is a problem. Not this year as it turns out, so we will be able to put team members to bed at will. This will make for a less stressful experience for all.

Following is a list of the team as it was thought to be at the time of publication. I hope in next year's Marksman to be able to write an entertaining report that includes the results of our efforts this summer. As you will see by the names on the list we can expect good things.

Roger Mullin
2017 Bisley Team Commandant

Team Complement

In addition to names already included we have:

Gary Bendik	Paul Dudzinski	Scott Murray	Nicole Rossignol
Tony Betts	Stan Frost	James Paton	Steve Spinney
Serge Bissonnette	Bianca Fung	Marian Patrick	Gale Stewart
John Chapman	Stefan Fielding-Isaacs	Bernie Pepin	Mike Wong Shui
Catherine Choquette	Jeff Jenkins	Amy Peters	
Peter Dobell	Fazal Mohideen	Leo Poulin	



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AFRA 2017 SCHEDULE OF MATCHES

General Information:

- Match registration cut-off is at 8:30 AM and matches start at 9:00 AM
- Matches are subject to weather and may be cancelled/rescheduled on short notice
- Match fees:
 - AFRA members: \$40 for 2- or 3-day matches, \$25 for 1-day match
 - Non-AFRA members: \$60 for 2- or 3-day matches, \$35 for 1-day match
 - the AFRA yearly shoot card includes the Provincial Competition
- Targets: 2+ electronic targets (TR), 4+ paper targets (FC)
- ICFRA target dimensions are used and all distances are in metres
- Contact the AFRA at afratargetshooters@gmail.com with any questions

MONTH	DAY	MATCH	ROUNDS	COURSE OF FIRE
May	6	Season Opener Match	6+45	2+10 each at 300 & 400m 2+15 each at 500 & 600m
May	7	Season Opener Match	8+50	2+15 each at 700, 800 & 900m
May	20	Victoria Day Match	8+50	2+10 each at 300 & 400m 2+15 each at 500 & 600m
May	21	Victoria Day Match	6+45	2+15 each at 700, 800 & 900m
May	27	Invitational Team Challenge Match	6+45	2+15 each at 700, 800 & 900m
May	28	Invitational Team Challenge Match	6+45	2+15 each at 700, 800 & 900m
June	3	New Shooter Day	?+4+20	2+10 at 400 & 800m
June	4	Far Away Match	8+60	2+15 each at 900, 900, 900 & 900m
June	17	Homestead Palma Match	6+45	2+15 each at 700, 800 & 900m
June	18	Homestead Palma Match	6+45	2+15 each at 700, 800 & 900m
July	8	New Shooter Day	?+4+20	2+10 at 400 & 800m
July	9	ISU Match	?+60	unlimited+60 at 300m ISU target
July	14	Fullbore Provincial Championship	6+45	(Lt. Governors) 2+15 each at 300, 600 & 900m
July	15	Fullbore Provincial Championship	8+60	(Provincials) 2+15 each at 400, 500, 600 & 800m
July	16	Fullbore Provincial Championship	8+60	(Provincials) 2+15 each at 300, 700, 800 & 900m
July	22	Invitational Team Challenge Match	6+45	2+15 each at 700, 800 & 900m
July	23	Invitational Team Challenge Match	6+45	2+15 each at 700, 800 & 900m
August	12	DCRA Alternative Match	8+50	2+10 each at 300 & 400m 2+15 each at 500 & 600m
August	13	DCRA Alternative Match	6+45	2+15 each at 700, 800 & 900m
August	26	Kananaskis Match	8+50	2+10 each at 300 & 400m 2+15 each at 500 & 600m
August	27	Kananaskis Match	6+45	2+15 each at 700, 800 & 900m
September	9	Fall Palma Match	6+45	2+15 each at 700, 800 & 900m
September	10	Fall Palma Match	6+45	2+15 each at 700, 800 & 900m
September	23	Frost on the Pumpkin Match	8+50	2+10 each at 300 & 400m 2+15 each at 500 & 600m
September	24	Frost on the Pumpkin Match	6+45	2+15 each at 700, 800 & 900m

NSRA 2017 SCHEDULE OF MATCHES

Date	Match	Range
May 6	Service Rifle – Rudland Match	Bull Meadow – A
May 13 & 14	Service Rifle Clinic	Bull Meadow – A
May 20	Precision Rifle – Anderson Match	Bull Meadow – A
May 21	Target Rifle / F-Class – Kennedy Match	Bull Meadow – A
May 22 (AM)	Target Rifle / F-Class – Elliot Campbell Challenge	Bull Meadow – A
May 22 (PM)	Target Rifle / F-Class – Victoria Day Match	Bull Meadow – A
June 4	Target Rifle / F-Class – Inter-Maritime Trials	Bull Meadow – A
June 10	Precision Rifle – Irving Match	Bull Meadow – A
June 11	Target Rifle / F-Class – Long Range Match	Bull Meadow – A
June 17	Target Rifle / F-Class – Inter-Maritime Match	NB
June 18	Target Rifle / F-Class – British Team Match	NB
June 24	Service Rifle – Gunning Match	Bull Meadow – A
July 2	Target Rifle / F-Class – Canada Day Match	Bull Meadow – A
July 15	Precision Rifle – Twining Match	Bull Meadow – A
July 16	Sierra ISU Match (Service Rifle, Target Rifle, F-Class)	Bull Meadow – A
July 21-23	Target Rifle / F-Class – NSRA Annual Prize Meet	Bull Meadow – A
Sept. 9-10	Target Rifle / F-Class – Atlantic Championships	NB
Sept. 16-17	Precision Rifle – Provincial Championship	Bull Meadow – A
Sept. 23	Target Rifle / F-Class – Mini Palma Match	NB
Sept. 24	Handgun Provincial Match	Bull Meadow – B
Sept. 30-Oct. 1	Service Rifle – Provincial Championship	Bull Meadow – A
Oct. 8 (AM)	Target Rifle / F-Class – Purdy Match	Bull Meadow – A
Oct. 8 (PM)	Target Rifle / F-Class – Irish Match	Bull Meadow – A

SPRA 2017 SCHEDULE OF MATCHES

0800 Registration - 0845 Safety - 0900 Start
 Match Fees: Single Day - \$40, 2 Day - \$80, 3 Day - \$120

May 20th, 21st & 22nd, 2017 **Victoria Day Matches & Work Party** (3 Day Match)
 May 19th Any target repairs, grounds cleanup to be done, practice - no target pullers
 May 20th 2+10's @ 300m, 500 yds, 600 yds, 2+15's @ 600 yds
 May 21st Richardson Pioneer Palma Match - 2+15 's @ 800 yds, 900 yds, 1000 yds
 May 22nd 2+15 's @ 800 yds, 900 yds, 1000 yds

June 10th & 11th, 2017 **SPRA Long Range Matches** (2 Day Match)
 June 10th Palma - 2+15's at 800 yds, 900 yds, 1000 yds
 June 11th Palma - 2+15's at 800 yds, 900 yds, 1000 yds
 AGM being held so we can meet deadlines for SaskSport and Corp. Registry

July 14th, 15th & 16th, 2017 **SPRA Provincial Championships** (2 Day Match)
 July 14th Optional Practise Day – no pullers, no stats
 July 15th 2+10's @ 300m, 300m, 500 yds, 600 yds, 800 yds
 July 16th 2+10's @ 600 yds, 800 yds, 900 yds, 2+15's @ 1000 yds

August 12th & 13th, 2017 **August Palma's** (2 Day Match)
 Aug. 12th Short Range Palma - 2+15's @ 300 m, 500 yds, 600 yds
 Aug. 13th Long Range Palma - 2 +15's @ 800 yds, 900 yds, 1000 yds

Sept 2th & 3th, 2017 **PPRA** (2 Day Match)
 Sept 2nd 2+10's @ 300m, 500 yds, 600 yds, 900 yds & Team Match 2+15 @ 900 yds
 Sept 3rd Palma - 2+15's @ 800 yds, 900 yds, 1000 yds & Team Match 2+15 @ 1000 yds

RNBRA 2017 SCHEDULE OF KEY MATCHES

The Royal New Brunswick Rifle Association's Fullbore Section conducts matches on most weekends during the April to October outdoor shooting season. These are the dates of our most significant matches in 2017. Please visit the Fullbore Section blog <http://rnbrafullbore.blogspot.ca/> for contact details and further information.

Saturday, June 17 & Sunday June 18, 2017

INTERMARITIME/BRITISH TEAM MATCH 2+10 @ 3/5/600m

Location: SAINT ANTOINE MD: Ron Surette

Saturday and Sunday, July 15 and 16, 2017

RNBRA- FULLBORE SECTION ANNUAL PRIZE MEET

Location: BATOUCHE MD: Adam MacDonald

Saturday, Sunday and Monday, September 9th, 10th and 11th, 2017

ATLANTIC CHAMPIONSHIPS

Location: SAINT ANTOINE MD: Ron Surette

PQRA 2017 MATCH SCHEDULE

May 6th	Initiation Day
May 27th	Sierra UIT Match
June 17th	Saint-Jean-Baptiste Match
July 15th	Leo D'Amour Match
July 28-30	136th Quebec Provincial Match
September 8-10	Invitation Valcartier



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PQRA 2017 ANNUAL REPORT

La saison 2016 en a été une de continuité par rapport à 2015. Notre membership, plutôt stable ces dernières années représente un défi afin d'assurer la pérennité de l'organisation.

Au niveau administratif, notre président Robert Fortier et notre Trésorier Gilles Lacroix ont manifesté leur désir de laisser leurs postes après trois ans de loyaux services. Ceux-ci ont fait un travail remarquable de redressement des finances et méritent notre toute admiration. Lors de notre AGA tenue le 3 décembre, les 3 postes clés ont été comblés par Gale Stewart en tant que président, Nicole Rossignol en tant que vice-présidente et Paul Tremblay en tant que Trésorier.

Grâce à l'état de nos finances, nous ferons l'achat de 3 cibles électroniques Silver Mountain en 2017 pour en faire bénéficier nos membres et si leur utilisation est concluante, nous continuerons les années suivantes avec l'achat d'un nombre suffisant de cibles pour tenir nos compétitions. Espérons aussi que l'attrait provoqué par cette technologie nous amène de nouveaux membres.

Les compétitions ont eu lieu comme prévu, avec une répartition de participation $\frac{1}{3}$ classe TR, $\frac{2}{3}$ classes F-O et F-TR. Ceci est une tendance lourde ces dernières années, le recrutement de tireurs TR étant plus difficile étant donné la grande popularité des armes de style tactique auprès de la population en général ainsi que du niveau d'exposition abyssal de la discipline TR. Nous avons une personne dynamique en Gérald Bergeron qui fait la promotion du tir à poudre noire et nous le soutiendrons dans ses efforts pour attirer d'autres compétiteurs à poudre noire (peut-être n'aurons nous plus besoin de drapeaux avec 3 ou 4 de ces tireurs! ;-)

La journée d'initiation en mai continue d'être un franc succès avec une cinquantaine de participants et nous amène quelques membres de plus chaque année.

Finalement, un grand merci à Jacques Dugas pour son travail extraordinaire comme officier de liaison et pour son travail au champ de tir. Si la valeur n'attend pas le nombre des années, dixit Corneille, c'est peut être dans son cas qu'il rajeunit au lieu de vieillir!

The 2016 season could be qualified as one of continuation relative to 2015. Our membership has been rather stable in recent years and still represents a challenge to the sustainability of our organization.

On the administrative side, our president Robert Fortier and our Treasurer Gilles Lacroix wished to step down after 3 years of loyal service. Their remarkable work on the improvement of our finances deserves our admiration. During our 3rd of December AGM, the 3 key executive positions have been filled by Gale Stewart as president, Nicole Rossignol as vice-president and Paul Tremblay as Treasurer.

Given our financial situation, we shall purchase in 2017 three Silver Mountain electronic targets for the benefit of our members and pending our satisfaction with their use, we shall purchase in future years a sufficient number to run our competitions. Let's hope that the advent of such technology will help to attract more members.

Our matches were held as planned, with a participation distribution of $\frac{1}{3}$ in TR class, $\frac{2}{3}$ in F-O and F-TR classes. This is a heavy trend of recent years, recruiting TR shooters being more difficult due to the great popularity of tactical guns among the public combined with the abysmal exposure of the TR events. We have in Gérald Bergeron a dynamic individual who is promoting black powder and we will support his efforts to attract other black powder competitors (with 3 or 4 of these shooters we might even do away with range flags! ;-)

The initiation day in May continues to be a great success with about 50 participants and draws a few new members each year.

Finally, heartfelt thanks to Jacques Dugas for his extraordinary work as liaison officer and his range work. French poet Corneille once said that 'Valor does not await the passing of years...' well, maybe he grows young instead of old!

*Gale Stewart
President
PQRA/ATPQ*

ADVENTURES ON THE FAR SIDE - PART 6

At the end of the last chapter we were at our training venue on the Malaysian Police base named ULA KINTA. It is huge, about 5000 residents, police and families. To the east, in a far corner of the base, is the 600yd range that we will be using until the 1000yd range for the 1998 Commonwealth games has been built.

So, we are now ready for the rifles to arrive and it is now August 1995. I gave the boys (Margaret always referred to the ten shooters as "Sandy's boys") some time off to be with their families. For myself, I rewrote the training plan hoping that this one would work. We were scheduled to fly to Australia in October to compete at Canberra. As the days slipped by, I began to think that we would not be able to do that so started looking around to find some other matches in OZ. But wait... on Sept 29th one of the boys arrived at our house on his motor bike with the news that rifles had arrived. Stone the crows, we are really going to start shooting a fullbore rifle.

Once we had unpacked and checked all the equipment we went to the pistol range and started the barrel break-in routine using the "Friction Block" method. It took a while to do the "shoot one, clean, shoot two, clean," and on and on. Bear in mind here that there were only about four useable hours a day where one could be outside on the range, as from noon on it is just too hot. I did not realize it at the time but looking back on that exercise I realized that we had planted a habit that stayed with each one of the boys for as long as the program lasted. Those rifles were never put to bed until they were clean – extra clean.

After the break-in was complete, I took them down to the 100yd mound to shoot groups. It was here that I saw all the benefits of the smallbore training. After we had set up the zeroing targets I had one of the best experiences of the first nine months in Malaysia. (You will recall that all shooting up to this point was done using the Anschutz .22 rifles.) I had issued a rifle to each of the boys along with new jackets, slings, and gloves. I sat down on my shooting stool and told them to get ready. From that point on I did not have to say one word or spend one second helping them set up their positions. I was able to just sit and watch as each of them got into their jackets, placed and adjusted the sling, and got into position to then check and adjust the front handstop until they were perfectly aligned with their target. A very satisfying time for me, seeing that all the work done so far was producing good results.

As I sat there watching I gave a silent thank you to my friends back home for all the help they had given me in choosing and building the equipment. Otto Weber, who lives in Springfield, Oregon, put together ten rifles using the RPA2000 action, Kreiger barrel, mounted in a fibreglass McMillan stock. From Victoria, Clive Cross went down to Springfield to help do the pillar bedding, and Dave Lee from Roseburg Ore., probably one of the best gunsmiths on the West Coast, did the chamber reaming and fitting of the barrels. We had chosen the stocks because they were very close to the .22 rifle that they had used during the earlier trials. All I had to do was unpack them.

We had set two 50m pistol targets on each four-foot frame and shot groups for two days at 100yds getting used to recoil and heavier trigger. The groups were getting smaller and smaller with a few scores of 100 so I decided to move to 300yds. Here, we shot fifteen shot groups every morning for two weeks. A new part of our training came into effect during this time. In countries that are near the equator, the sun rises and sets at almost the same time each day. Since the temperature went up very quickly, I wanted to have the first shot down range as soon as possible each day. The result of this strategy was that the boys were on the firing point ready to shoot as soon as the light allowed so we would be finished before noon. After lunch we spend a few hours in the class room going over the day's events, discussing MPI, how to recognize and move it. It seemed to me that they had no trouble taking this in. But putting it into practice turned out to be a problem. They were shooting very good groups but not centered.

The ammunition we were given was quite old Malaysian military issue. I took some apart to see what it was we had. They used 44.3 gr of a ball powder that was made in France. The bullet was 146-147 gr. When I spun the cartridges, they were very consistent. The case weight varied quite a bit and could be from 184 to 190gr. We were shooting at the new 1995 Bisley target and it appeared that with a little bit of luck a good score could be made with this Paluru (ammunition).

When I thought that the boys had a handle on the group centering we moved back to 500yds. We had spent a lot of afternoon time in the classroom working on how to run a plot sheet, so on our first day at 500 I watched closely to see

ADVENTURES ON THE FAR SIDE - PART 6

how they would handle things. I watched with surprise as one of the boys shot a score of 50 9V. It was the first time in his life that he had fired a target rifle at 500yds. I thought back to the number of times I had shot 500 at Bisley and the number of times I came away with less than 50. We were all “very happy” after that shoot. (“Very happy” is a term that I heard often during my time with them. I would ask how they did and the answer sometimes was “I am very happy coach”). But alas, that success was not repeated in the days that followed. As the days at 500 rolled by, we spent more and more time discussing how to run the plot sheet while shooting. We always shot in pairs so the timing for each was short. It looked like they needed more time between shots, so without that time and when in a competing situation, the plot suffered along with the scores.

From the beginning of all this my plan had been that they must know how to plot quickly and properly before I told them anything about the Plot-O-Matic. I had ten of them hidden away. They were made by my good friend Derek Daines, but I didn't want to bring them out until they understood plotting. I finally gave up on that idea so after another day of seeing confusion I showed them a different way. We were in the classroom. It was as if I was some sort of magician. I pulled out these strange things and explained how they worked. I had their full attention. The next day everyone finished in good time with good scores and big smiles... They were all “VERY HAPPY!!”

Good news from the Sports Council. We will be going to Canberra next month. I'll tell you all about their first International experience next time.

-Margaret and Sandy Peden



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CAFSAC 2016

The connection between the DCRA and CAFSAC (Canadian Armed Forces Small Arms Concentration) was clearly demonstrated this year, serving to remind us of the strong relationship that exists with the military. Military shooters come to Connaught Ranges to hone their skills, compete, and learn. Many of the teams participate in the National Service Conditions Championships (NSCC) as practice for CAFSAC but in reality it is more than that. It is about the passion we all share for shooting – that discipline which some of us spend years trying to perfect. It is about sharing in the successes of other shooters, and the comradery that is gained among the fraternity of shooters.

NSCC was run this year by Randy Evans and John Todd, both retired army officers and experienced shooters. Supporting them were a number of individuals from the CAFSAC staff, and this created a win/win situation for all. The DCRA received needed support in the form of Assistant Range Safety Officers (ARSOs) and Butts Officers, while CAFSAC staff were able to assess and train their personnel.

Teams from the United States and the United Kingdom joined Canadian teams from across the country—Reservists, Regular Force members, and Rangers—to participate. The opening ceremony for CAFSAC '16 took place on Labour Day, September 5th. This event is quite unique and developed out of an idea put forward by Captain Sean Gagnon a couple of years ago. After everyone was formed up in a hollow square facing Charlie Range, the youngest tyro on each team was dispatched to the 900 meter point and ordered to fire 'the opening shot'. Using regular C7 or Ranger 303 rifles, it was not expected that anyone would hit the target. Perhaps one would get lucky... but three did hit the target and one was a bullseye (urban legend has it that it was a Ranger with his bolt action 303). Those opening shots echoed through the remainder of the concentration as they were vigorously debated in the mess.

The word 'concentration' is in the CAFSAC name to distinguish it from our traditional understanding of a competition. Yes, CAFSAC is about competing and determining whose skills are the best that year. For 2016, the best individuals and therefore Queen's Medalists were Major Ken Barling of the Royal Canadian Air Force, Corporal David Ferguson of the Nova Scotia Highlanders, and Ranger Mustafa Dedeci of 2 Canadian Ranger Patrol Group (2 CRPG). But the gathering is about more than just competing. The aim is for everyone, including the staff, to gain experience, knowledge, and skill, meet and socialize with people from across the country and around the world, and have fun.

There is no substitute for pulling the trigger. The more times an individual shoots, the more experience is gained and the better shooter he or she becomes. CAFSAC 16 provided the participants with a variety of matches which challenged their marksmanship skills. They tested accuracy at various distances, targets, and positions. All required stamina, motivation and ability. Fitness played a key role as shooters were required to wear combat equipment weighing a total of 15 kilograms which included body armour with plates.



CAFSAC 2016

One of the unique features of CAFSAC is the operationalization of the matches. All are testing skills that are vital to soldiers. The most visible expression of this could be seen in the 'dynamic matches'. Set in an 'urban environment', the shooters were faced with dilemmas which challenged their marksman abilities as well as their cognitive abilities. While moving through the course, they had to quickly decide which target to engage (enemy) and which to avoid (friendly) while keeping under cover and not exposing themselves to the 'enemy'. They needed to be accurate, fast, and aware of their surroundings to be the best. While there can be only one 'winner', all who experienced these matches walked away having had a unique experience and gained a better understanding of themselves.

The final awards ceremony was held on Saturday the 17th of September. It was attended by a large number of military dignitaries including the Commander of the Army, Lieutenant-General Wynnyk, and the Commander of the Canadian Army Doctrine and Training Centre, Major-General Lanthier. Our own President, Brigadier-General (Retired) Ray Romses, presented the Queen's Medal to the Reserve winner, Cpl David Ferguson. This is an important statement - the Canadian Armed Forces and the Dominion of Canada Rifle Association jointly recognizing the year's best shooters in the military.

*Don Haisell
Executive Director*



Photos courtesy of the Department of National Defence

WINTER PROGRAM

The DCRA's Winter Postal Program had a successful year, drawing in almost 400 competitors nationally. The matches are a mixture of .177 air rifle and .22 smallbore fired at 10m from both standing and prone and can be entered individually as well as in teams. Cadet corps make up the bulk of the entries and some corps chose to enter Match 1.8, known as the "Youth of the Commonwealth" which is fired in two stages. The first stage is the national competition and I'm proud to announce that the 907 Black Knights from White Rock, BC, 2898 RCACC from Sainte-Marie, QC and 51 Canada Aviation Museum Air Cadet Squadron from Ottawa, ON are the winners in 2017 placing Gold, Silver and Bronze for Stage One of the Youth of the Commonwealth Air Rifle Prone Team Match. They will move on to Stage 2, representing Canada as they compete against cadet corps from other Commonwealth nations. We wish you all the best of luck and good shooting!

It has been my privilege to administer the Winter Program again in 2017. With the growing pains of 2016 out of the way this year has come together quite well and I've been fortunate to meet and befriend many fine people from across the country as we support target sport shooting in our colder months. I am excited to announce that we are adding a new match in 2018. Match 1.7 will be a Cadet Staff Team match, allowing cadet staff to demonstrate their marksmanship skills and compete against other corps nationwide. We will also be bringing in updated forms, claim sheets and some minor tweaks to the rulebook! I look forward to working with everyone again in 2018 and wish you all the best for the year ahead.

Pierre Lafontaine
Office Manager



The 907 Black Knights from White Rock, BC



51 Canada Aviation Museum Air Cadet Squadron, Ottawa



2898 RCACC from Sainte-Marie, QC



Range Sports Unlimited

Paul Reibin

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Kamloops, B.C., Canada V2C 3B5

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MATCH BULLETS IN STOCK



WORLD LONG RANGE CHAMPIONSHIPS 2019

The National Rifle Association of New Zealand has invited the DCRA, as a full member of the International Confederation of Fullbore Rifle Associations (ICFRA) to the Seddon Range, Trentham, Upper Hutt in January and February of 2019 to join in the 2019 Long Range World Championship, the Palma Team Match, and the 158th New Zealand National Championship, Ballinger Belt and associated events.

With three team Captains named; Fazal Mohideen (Senior Team), Cheryl Hearn (Under 25 Team) and Serge Bissonnette (Veterans Team), work has begun to field a competitive team at these events.

The proposed schedule is as follows:

24th January – 3rd February – NZ National Masefield Cup & Ballinger Belt Championships

4th February – 11th February – International Palma LR World Championship

If you would like to be part of this exciting event, please contact the DCRA office (office@dcra.ca) for more information.

Fazal Mohideen

SHOOTING DOWN BARRIERS



Earlier this year CTV News in Vancouver ran a story on local shooter, and 2 time NSCC competitor (and previous Marksman contributor) Graeme Foote.

The story, which can be found here: <http://bc.ctvnews.ca/video?clipId=1032460>, (or by scanning the QR code on the right), helped to show the shooting sports in a very positive light, and demonstrate that they can be accessible to people of all abilities.

You can follow more of Graeme's story on his website, www.amputee-shooter.com, or find him out at the range in BC's lower mainland.

Well done Graeme!





THE DOMINION OF CANADA RIFLE ASSOCIATION

45 Shirley Blvd. Ottawa, ON. K2K 2W6

Telephone: (613) 829-8281

FAX: (613) 829-0099

e-mail: office@dcra.ca

<http://www.dcra.ca>

DCRA BLACK POWDER NATIONAL CHAMPIONSHIP 2017

FRIDAY 18 AUGUST TO SUNDAY 20 AUGUST 2017

INDIVIDUAL ENTRY FORM

PLEASE READ THESE NOTES CAREFULLY

1. This form must be completed in all applicable sections and signed by the competitor.
2. DCRA Membership is compulsory for all participants.
3. Full payment, **in Canadian dollars only**, must accompany entry form to be registered in the match. Payment made by credit card will necessitate the addition of a 3% cost recovery charge. Wire transfers and electronic money transfers are also accepted.
4. **Entries received by the DCRA after 1st June 2017 are subject to a higher entry fee (see below).**
5. Your PAL or Non-Resident Firearms Declaration must be presented when picking up squadding tickets. No tickets will be issued unless all entry and other fees, along with any other monies owed to DCRA, have been paid in full.
6. The Black Powder Program is available online at www.dcra.ca and a booklet will be included with each competitor package to be picked up during registration.

PERSONAL INFORMATION (Please use BLOCK CAPITAL LETTERS)

SURNAME		FIRST NAME	
ADDRESS			CITY
PROV/STATE	POSTAL/ZIP CODE	COUNTRY	
HOME PHONE	ALTERNATE PHONE	E-MAIL	
DATE OF BIRTH (dd/mm/yyyy) / /	AGE ON 01 SEPT. 2017 Under 19 (J) <input type="checkbox"/> 19-24 (M) <input type="checkbox"/> 25-64 (X) <input type="checkbox"/> 65+ (O) <input type="checkbox"/>	GENDER Male <input type="checkbox"/> Female <input type="checkbox"/>	

COMPETITOR CLASSIFICATION

Cartridge Rifle

Muzzleloading Rifle

Scoped Rifle

CITIZENSHIP: Rule 1.01(5): "Canadian means a Canadian citizen, a member of the Canadian Armed Forces, or a landed immigrant who has been a resident of Canada for at least one year prior to the first day of the Meeting".

Cdn under Rule 1.01(5) (A)

Non-Canadian (X)

DCRA	Membership Type	Cost	Pre-paid	Enclosed	Total
Membership (Compulsory for all competitors. Indicate category and if prepaid or enclosed)	Life Member Insurance	\$ 20.00			\$
	Annual Full (over 25 on 1 April 2017)	\$ 135.00			\$
	Annual Under 25 (25 or under on 1 April 2017)	\$ 75.00			\$
	Associate/Non-Canadian	\$ 55.00			\$
PRA Membership	Member of	PRA	Paid <input type="checkbox"/>	Not Paid <input type="checkbox"/>	
	Category:	Life <input type="checkbox"/>	Annual Full <input type="checkbox"/>	Annual Under 25 <input type="checkbox"/>	

MEET AND GREET

#	Meet and Greet Tickets x \$15.00 each	\$	Vegetarian hors d'oeuvres required: <input type="checkbox"/>
The Meet & Greet will be on Saturday, August 19 th , 2017 and will consist of hors d'oeuvres only. Tickets may be purchased on arrival, however, please help with our planning by indicating, on this form, your intention to attend.			

BLACK POWDER AWARDS LUNCHEON (August)		
#	BP Luncheon Tickets x \$22.00 each	\$

DCRA BLACK POWDER CHAMPIONSHIP SERVICES AND PAYMENT SUMMARY			
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Line	Service	Per Item Cost	Total Cost
A	DCRA Black Powder Championship Entry Fee \$260.00 if entry is made and paid in full by 1 June 2017; \$280.00 after 1 June 2017		\$
B	DCRA Membership		\$
D	Meet & Greet Tickets	\$ 15.00 each	\$
E	Awards Luncheon (includes one drink)	\$ 22.00 each	\$
F	Donations to the DCRA (Receipt will be provided)		\$
G	Total (Canadian Dollars Only)		\$

PAYMENT OPTIONS		
-----------------	--	--

I am paying by cheque (enclosed) <input type="checkbox"/>		
I am paying by credit card and authorize the DCRA to add 3% (cost recovery) to the total amount <input type="checkbox"/>		
Card #	Expiry Date (mm/yy)	Security Code
/ /	/	
Print Name	Date	Signature

I agree to abide by the Rules and Conditions governing these competitions. I certify that the information entered on this form is correct, and I accept full responsibility for any errors or misinformation. See Rule 26.02 Fraud, DCRA Rules for the Conduct of Fullbore Rifle Competitions. I understand and agree that neither the Department of National Defence nor the Dominion of Canada Rifle Association is responsible in any way for the loss, theft or damage to personal firearms.

Notice: Canadian Forces Administration Order 36-52 requires that the firearms and ammunition used on DND ranges be serviceable and safe and that the Crown is indemnified from all liabilities arising from the use of the DND facility by the DCRA. I certify that the firearms and self-supplied ammunition I will use during the 2017 National Championships meet the conditions stated above. I indemnify the Crown from all liabilities arising from my use of Connaught Ranges.

Date Signature of Competitor

For further information, please contact Mr. Sandy Post.
 Phone: 705-843-2966 Email: thegulch@vianet.ca or office@dcra.ca



THE DOMINION OF CANADA RIFLE ASSOCIATION

45 Shirley Blvd. Ottawa, ON. K2K 2W6

Telephone: (613) 829-8281

Fax: Contact office

e-mail: office@dcra.ca

<http://www.dcra.ca>

CANADIAN FULLBORE RIFLE CHAMPIONSHIPS GRAND AGGREGATE & TILTON 2017

SUNDAY 13 AUGUST TO SATURDAY 19 AUGUST 2017

INDIVIDUAL ENTRY FORM

PLEASE READ THESE NOTES CAREFULLY

1. This form must be completed in all applicable sections and signed by the competitor.
2. DCRA Membership is compulsory for all participants.
3. Full payment, **in Canadian dollars only**, must accompany entry form to be registered in the match. Payment made by credit card will necessitate the addition of a 3% cost recovery charge. Wire transfers and electronic money transfers are also accepted.
4. **Entries received by the DCRA after 1 June 2017 are subject to a higher entry fee (see below).** An exception to the higher fee is for members of official International Target Rifle Teams from outside Canada. Such teams must notify the DCRA in writing not later than 1 June 2017 of their intention to participate; their strength; have submitted entry forms; and have agreed to pay to the DCRA all fees for their team members in bulk on arrival at Connaught.
5. Your PAL or Non-Resident Firearms Declaration must be presented when picking up squadding tickets. No tickets will be issued unless all entry and other fees, along with any other monies owed to DCRA, have been paid in full.
6. The CFRC Program is available online at www.dcra.ca and a booklet will be included with each competitor package to be picked up during registration.
7. Apart from 2 & 15 shot matches at long range, there will be **THREE** shooters squadded per target. The Ottawa Regiment will be squadded in threes.

PERSONAL INFORMATION (Please use BLOCK CAPITAL LETTERS)

SURNAME		FIRST NAME	
ADDRESS			CITY
PROV/STATE	POSTAL/ZIP CODE	COUNTRY	
HOME PHONE	ALTERNATE PHONE	E-MAIL	
DATE OF BIRTH (dd/mm/yyyy) / /	AGE ON 01 SEPT. 2017 Under 19 (J) <input type="checkbox"/> 19-24 (M) <input type="checkbox"/> 25-64 (X) <input type="checkbox"/> 65+ (O) <input type="checkbox"/>		GENDER Male <input type="checkbox"/> Female <input type="checkbox"/>

TARGET RIFLE CLASSIFICATION	Master (M)	Expert (C)	Sharpshooter (S)	Greenshot (G)
Current DCRA Classification (NO CLASSIFICATION FOR F-CLASS)				
Current Provincial Classification	PROVINCE			
OR Your Home Country NRA Classification (Non-Canadian)	COUNTRY		CLASSIFICATION	
OR Entering in F-Class for limited awards. Will be squadded with TR shooters.			F/Open <input type="checkbox"/> F/TR <input type="checkbox"/>	
CITIZENSHIP: Rule 1.01(5): "Canadian means a Canadian citizen, a member of the Canadian Armed Forces, or a landed immigrant who has been a resident of Canada for at least one year prior to the first day of the Meeting".				
Cdn under Rule 1.01(5) (A) <input type="checkbox"/>	2017 RCAC Bisley Team (B) <input type="checkbox"/>	ACF (UK) (Z) <input type="checkbox"/>		
Cadets (RCAC-ACLIM) (C) <input type="checkbox"/>	Non-Canadian (X) <input type="checkbox"/>	BCRT (Athelings - UK) (Y) <input type="checkbox"/>		

Eligibility for Special Awards	Y/N
Gerry Ouellette Prize (Canadian, 40 years of age or under on 13 August 2017)	
R.G. Potter Memorial (18 or 19 years of age on 13 August 2017)	
Veterans Team Match (Canadian, 60 years of age or over on 1 July, 2017)	
Cdn Forces TR Championship (Serving member of the Cdn Forces (Reg or Res on active duty, CIC or COATS))	
Major Colin Brown Trophy (Canadian, 30 years of age or under on 13 August 2017)	

DCRA Membership (Compulsory for all competitors. Indicate category and if prepaid or enclosed)	Membership Type	Cost	Pre-paid	Enclosed	Total
	Life Member Insurance	\$ 20.00			\$
	Annual Full (over 25 on 1 April 2017)	\$ 135.00			\$
	Annual Under 25 (25 or under on 1 April 2017)	\$ 75.00			\$
	Non-Canadian	\$ 55.00			\$
PRA Membership	Member of	PRA	Paid	<input type="checkbox"/> Not Paid	<input type="checkbox"/>
	Category:	Life <input type="checkbox"/>	Annual Full <input type="checkbox"/>	Annual Under 25	<input type="checkbox"/>

MEET AND GREET			
#	Meet and Greet Tickets x \$15.00 each	\$	Vegetarian hors d'oeuvres required: <input type="checkbox"/>
The Meet & Greet will be on Saturday, August 19 th , 2017 and will consist of hors d'oeuvres only. Tickets may be purchased on arrival, however, please help with our planning by indicating, on this form, your intention to attend.			

TARGET RIFLE CHAMPIONSHIP PAYMENT SUMMARY				
Line	Service		Per Item Cost	Total Cost
A	DCRA Membership			\$
C	Meet and Greet		\$ 15.00 per ticket	\$
E	Warm-up Matches (brought forward from Warm-up Matches form)			\$
F	Grand Aggregate and Tilton Match	64 and under as of 31 August 2017 <input type="checkbox"/>	\$ 780.00 (or \$830 if entry made after 1 June 2017)	\$
		65 and over as of 1 September 2017 <input type="checkbox"/>	\$ 750.00 (or \$800 if entry made after 1 June 2017)	\$
G	Full Results Booklet (Mailed after the matches)		\$ 25.00 each	\$
I	Rulebook (Delivered on arrival)		\$ 12.00 each	\$
J	Donations to the DCRA (Receipt will be provided)			\$
K	Total for all Services Above			\$
Note: If paying by cheque, please enclose cheque with form. For credit cards, the balance will be processed upon receipt of form.				

PAYMENT OPTIONS			
I am paying by cheque (enclosed) as indicated in Line K above			<input type="checkbox"/>
I am paying by credit card and authorize the DCRA to add 3% (cost recovery) to the total amount			<input type="checkbox"/>
Card #	/ /	Expiry Date (mm/yy)	Security Code
Print Name	Date	Signature	

I agree to abide by the Rules and Conditions governing these competitions. I certify that the information entered on this form is correct, and I accept full responsibility for any errors or misinformation. See Rule 26.02 Fraud, DCRA Rules for the Conduct of Fullbore Rifle Competitions. I understand and agree that neither the Department of National Defence nor the Dominion of Canada Rifle Association is responsible in any way for the loss, theft or damage to personal firearms.

Notice: Canadian Forces Administration Order 36-52 requires that the firearms and ammunition used on DND ranges be serviceable and safe and that the Crown is indemnified from all liabilities arising from the use of the DND facility by the DCRA. I certify that the firearms and self-supplied ammunition I will use during the 2017 National Championships meet the conditions stated above. I indemnify the Crown from all liabilities arising from my use of Connaught Ranges.

Date Signature of Competitor



THE DOMINION OF CANADA RIFLE ASSOCIATION

45 Shirley Blvd. Ottawa, ON. K2K 2W6

Telephone: (613) 829-8281

Fax: Contact office

E-mail: office@dcra.ca

<http://www.dcra.ca>

2017 CFRC WARMUP MATCHES

PERSONAL INFORMATION (Please use BLOCK CAPITAL LETTERS)			
SURNAME		FIRST NAME	
ADDRESS			CITY
PROV/STATE	POSTAL/ZIP CODE	COUNTRY	
HOME PHONE	ALTERNATE PHONE	E-MAIL	

Notes:

1. No Practice Targets will be available with the possible exception a target at 300m on the mornings of Sunday to Thursday. See the Notice board for details.
2. Warm-up Matches will commence with the Long Range Challenge on first Friday afternoon and Ottawa Regiment on first Friday evening.
3. The Canadian 223/556 Championship consists of the Long Range Challenge (first Friday PM only), the Ottawa Regiment (first Friday evening) and the Gooderham Matches (first Saturday AM).
4. Entry in all Warmup Matches may be limited due to target availability.

Day/Time	Match	Classification			Match Price	Total
		TR	F/O	F/TR		
First Friday PM & First Saturday PM	Sierra Long Range Challenge 2 & 15 @ 800 m x2, 2 & 15 @ 900 m x2				\$128 (includes entry in Army & Navy Veterans)	
First Friday evening	The Ottawa Regiment 2 & 15 @ 800 m				\$32	
First Saturday AM	The Gooderham 2 & 10 @ 300 y, @ 500 y, @ 600 y				\$66	
First Saturday PM	The Army & Navy Veterans 2 & 15 @ 900 m				\$32	
First Friday PM, First Saturday AM	Canadian 223/556 Championship 2 & 10 @ 300 y, 500 y, 600 y, 2 & 15 @ 800 m x2, 2 & 15 @ 900 x1				\$162	
					Total:	



**THE DOMINION OF CANADA RIFLE ASSOCIATION
L'ASSOCIATION DE TIR DOMINION DU CANADA**

45 Shirley Blvd, Nepean, ON K2K 2W6
Telephone: (613) 829-8281 FAX: Contact office
e-mail: office@dcra.ca <http://www.dcra.ca>

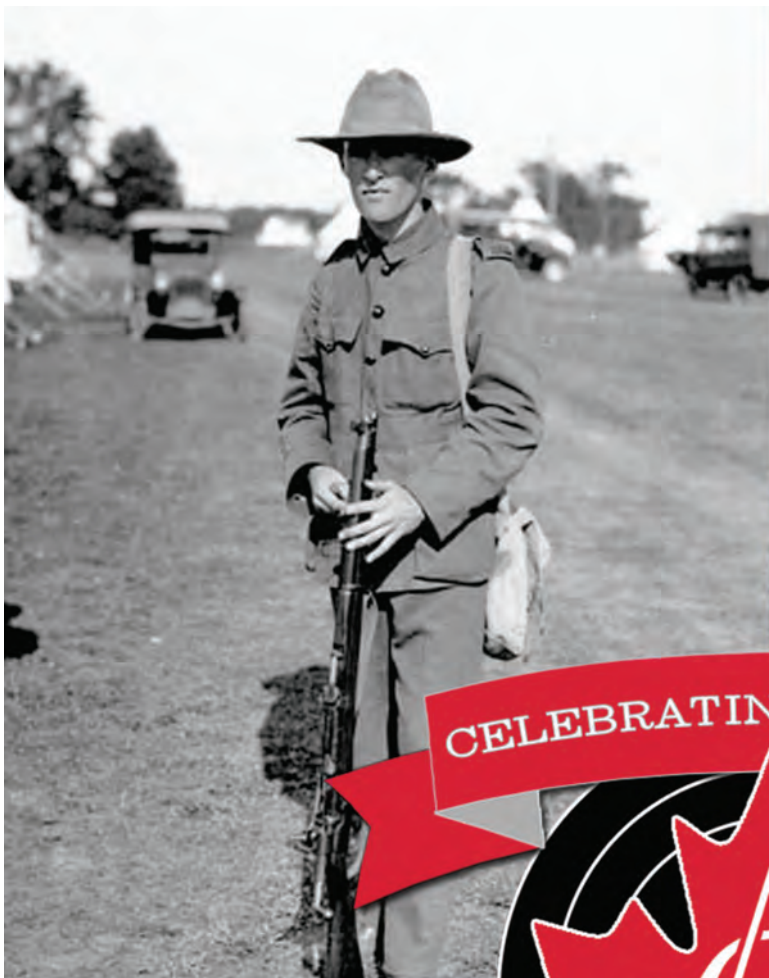
BURSARY APPLICATION/ APPLICATION POUR UNE BOURSE

(Open to Canadian participants only/Ouvert seulement pour participants canadienne)

I wish to apply for the 2017 Shooting Bursary offered by the DCRA to offset the entry fee to the 135th Canadian Fullbore Rifle Championships to be held in August 2017 at the Connaught Ranges. I understand that the deadline for this application is May 1, 2017 and an application received after that date may not be considered by the DCRA.

Je désire appliquer pour une bourse de tir offerte par l'A.T.D.C. pour 2017, afin de compenser les prix d'entrée aux 135 éditions du championnat Canadien qui se tiendra en Août 2017 au champ de tir Connaught. Je comprends que la date limite pour participer est le 1 mai 2017, et qu'une application reçu après cette date peut ne pas être considérée par l'A.T.D.C.

Name/nom:	
Address/adresse:	
Telephone/téléphone:	E-mail/courriel:
Date of Birth/date de naissance:	
Education and/or Employment : études et/ou emploi:	Full Time/complet: _____ Part Time/partiel: _____
Name of educational institution: Nom de l'institut:	
High School/école secondaire: _____	College/collegial: _____ University/université: _____
Name and address of employer: Nom et adresse de l'employeur:	
Are you currently a Royal Canadian Army Cadet? Êtes-vous régulièrement un cadet de l'armée royale du Canada?	Yes/oui _____ No/non _____
How many years have you served as a Royal Canadian Army Cadet? Combien d'années avez-vous servi avec les Cadets de L'armée Royal du Canada?	_____ years/années
Will you be attending a Cadet Marksmanship or any other course at Connaught during the summer of 2017? Participerez-vous à un cours de tir pour les cadets out toutes autres cours durant l'été 2013 à Connaught?	Yes/oui _____ No/non _____
Are you a member of the 2017 Cadet Bisley Team? Êtes-vous membre de l'équipe de Cadet pour Bisley 2013?	Yes/oui _____ No/non _____
Have you ever been a Cadet?/Avez-vous déjà servi avec les Cadets? If YES - how many years of service?/Si oui, combien d'années?	Yes/oui _____ _____ years/années No/non _____
Will you receive financial assistance to attend the 2017 CFRC from other sources? Allez-vous recevoir de l'aide financière provenant de d'autres sources pour participer au Championnat Canadien de tir?	Yes/oui _____ No/non _____
If YES please provide details : Si oui, fournir les détails:	



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