

Naval Electronic  
Sensor  
Operator

L'opérateur  
DéTECTEURS électroniques  
MARINE



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The NESOP NEWSLETTER is published by & for the NESOPs of the Royal Canadian Navy. It's purpose; to keep members current with items that reflect the NESOP community, by supplementing information provided by formal sources & acting as a forum for sharing unit-level items of interest. This newsletter is only as strong as the members it supports, as it is they who provide the content.

Views expressed in this newsletter do not necessarily reflect official opinion or policy.

- Editor



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I feel kind of guilty calling this the "Winter Edition", in view of the reality that it is now spring here. Undeniable; the smell of new leaves is in the air and the ornamental cherry trees which line the downtown Victoria streets stand at attention in improperly dressed-off ranks of frothy pink.

I also feel a little guilty calling what we experienced "winter", since it never really got what a reasonable person would call cold, and I don't believe we had any snow at all. Lot of rain, though; in fact, given the weather conditions in our other regions, it's hard to believe sometimes that it is all the same country. I grew up on the east coast, and I vividly remember what winter is; although I've never lived in Ottawa, I am given to understand this winter has been particularly harsh. Thus, the guilt. But I am a man who has learned to bear the burden of guilt without outward sign, so we'll say no more about it.

In conversation with the West Coast MOC manager the other day, I asked him, "What's the biggest problem facing the trade today?" After a brief pause, during which time he might have reconsidered saying "You are" out loud, his answer was, "The number of people in the trade, especially in the middle ranks, who cannot go to sea".

That struck a responsive chord with me, because I am responsible for – among other things – making up the monthly ill and injured report which is part of the brief for the Admiral MARPAC.

The Fleet, out here, is probably about 1,800 people. That's a guess, but I'd bet it's not too far off and probably on the high side. Out of that total, 124 are on a first TCAT, 35 on a second, 7 on a third and 52 are on a PCAT. That's 218 people. Almost the whole crew of a frigate. Out of them, a few are still able to go to sea without contravening their medical restrictions; but not many.

This is a problem, because for everyone who persistently cannot go to sea there is someone at sea who is second-touring without a break. After a couple of cycles like that, that person is burnt out, and needs a break. Another medical casualty.

Does the cause lie in the job specifications? Many of the casualties are mental-health issues, frequently stress. Recruiting? Why is being in the navy so much more stressful than it was 10 years ago? The medical system? I can't point fingers, because I don't know the answer and it is not my purpose here to make guesses, only to identify the problem and its impact.

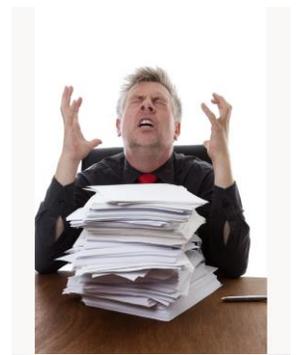
What I do know, though, is that when a problem becomes too big or goes on for too long without a resolution, if we prove incapable of solving it ourselves - a solution will be imposed upon us through a change in policy, somewhere. Almost everyone dislikes policy changes. And there's a very good reason for that. Just sayin'.

- CPO2 Mark Chapman  
EIC NESOP Newsletter

Le BULLETIN OP (DEM) est publié par les OP DEM de la Marine canadienne royale et à leur intention. Son but : aider les militaires à connaître l'actualité en ce qui concerne le milieu des OP DEN, en complétant l'information qui provient des sources officielles, et offrir une tribune où les unités peuvent mettre en commun les sujets dignes d'intérêt. Ce bulletin ne vaut qu'en fonction des militaires qu'il appuie, car ce sont eux qui en fournissent le contenu.

Les vues exprimées dans le présent bulletin ne correspondent pas nécessairement à l'opinion ou à la politique officielles.

- Le directeur



Your Editor



# THE NCR

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It has been a very exciting year at NEWC with all the new equipment and changes to the fleet. We have said goodbye to most of the CANEWS systems and welcomed the shiny new ELISRA system. We have been busy producing multiple libraries for ELISRA and we continue to improve the process. We are no longer bound by the 2000 mode limitation with these libraries like with CANEWS, so the operator will have a better library at his disposal to identify radars. In the future upon request from the ships we will be creating Tactical libraries with additional emitters and platforms that are expected to be in an area but are not contained in the original

Maritime Electronic Warfare Operation Area (MEWOA). For example; if there is intelligence that Russian ships will be doing an exercise in the North West Atlantic, the ship will request us to create a tactical library with the Russian platforms, radars , weapon fits and corresponding helicopters that are expected to be in that area. This library would then be loaded in conjunction with the North West Atlantic MEWOA. We continue to analyze the quality TACELINTs and Sea Search collects that we have been receiving from both coasts, once completed the results are transferred into the MEWDB. This database is used to build ELISRA and SEA SEARCH library products and populate the MEWDB. Once the collects are analyzed, we provide detailed feedback to the submitting unit with our final assessment and any tips for future collects. We encourage open communication between us and the Fleet, send us any comments or questions that you have with the MEWDB and libraries. NEWC has broadened our scope of doing business; I have had the pleasure of sailing on the HMCS FREDERICTON during their Missile EX to assist with ELISRA. I would like to thank the NESOP section for helping this desk gerbil feel like a sailor again. We have also been very active on both coasts with the fleet liaison visits ensuring the communication lines between us and the Fleet remain open.

There have been a lot of personnel changes in the past year at NEWC. MS Owen Demarce was promoted to PO2 and shipped back to the West Coast, MS Scott McRae was promoted to his current rank and sent to the other unit in Building 91 (CFEWC), PO2 Fabian Pittman has left us for the bright lights of the HMCS IROQUOIS. Now for the new faces at the unit, LT (N) Eric Pongs filled the OPSO position, CPO2 Mike Barker has taken over the DCPO position and PO2 Duane Cole finally got his shore posting and made the long drive to Ottawa. LS Jason Martin joined the team and is enjoying everything Ottawa has to offer; Cpl Hoskins got called up to the big league and joined us from CFEWC. Our technician MS Chris Myles was promoted to PO2 and is due to be posted, MS Laurie Leblanc was posted in to take over maintaining the equipment. PO1 Greg Murray continues to ensure the ES section is performing at its full potential as the Fleet Support PO; PO2 Darryl Barrett has taken over the ELINT PO position and loves all the different types of PRI modulation. MS Andrew Bishop is enjoying life as the Sr Library Generation analyst and supporting the new slicked back hair look. LS Daniel Gignac and LS Dustin York continue to work very hard on the SEASEARCH collects and TACELINTS that are sent in. As for myself, I am still holding down the fort as the Sr ELINT analyst.

Cheers;  
MS Nathan Bradbury



*PO1 “Scottie” Crouse, a frequent feature in the newsletter, volunteers to trial the new CF “High Visibility” wooden shoulderboards. Congratulations, Scottie!*



As the year winds down, so too does the MSOC Project. The Full Operational Capability announcement is scheduled to occur on 15 December 2014, signalling the end of the development/implementation phase of the Project and the beginning of the six month close out period. That announcement will also signal the beginning of the end of this particular employment for a CPO2 NESOP. ADM(IM) has many on-going projects and I, or my successor, will be attached to a different project in the new year. It isn't clear at this point when, or which project, but it will be a staff position somewhere in the National Capital Region. Until that time, I would like to wish everyone a Merry Christmas (or a Happy Holiday season) and a very safe and prosperous New Year.

CPO2 Stephen Haughn  
ADM(IM) Director General Information Management Project Delivery  
Marine Security Operations Centre Ops Liaison Officer



Attribution Perry Bible Fellowship Comics: <http://pbfcomics.com/134/>



*Two members of the popular late-70's alternative-lifestyle disco act "The Village People" relax backstage at an Ottawa CF Benefit Concert for maritime androgeny.*



#### CFEWC PROFILE UPDATE:

The Canadian Forces Electronic Warfare Center (CFEWC) is located in building 91 of the Shirleys Bay Campus at 3701 Carling Avenue, west of Ottawa in the Kanata area. We provide support to all elements of the Canadian Armed Forces (CAF) in matters of Electronic Warfare and are capable of providing direct support to units through construction of Land, Air and/or Sea EOBs or indirect support through second line signal analysis.

There are a number of positions within CFEWC for NESOPs, they do however require a Level III security clearance. Ensuring you possess this clearance prior to your arrival will allow you to step into your new job without delays. Currently we have two PO1, two PO2 and eleven MS/LS positions. Do keep in mind that we are a purple organization, meaning we work closely with other CAF members as well as civilians.

CFEWC consists of seven (7) primary sections and are as follows;

Parametric (Para) – Para personnel spend most of their time researching and building platforms if not dissecting RADARS. A popular phrase used within the section is Platform, Emitter, and Weapon. This is key when building relationships to link it all together.

Electronic Order of Battle (EOB) – EOB personnel spend most of their time researching and constructing EOBs and or building platforms. Much like Para a popular phrase heard throughout the day is Platform, Emitter, and Weapon. This commonality bridges a close working relationship between the two sections.

Data Management Co-ordination Cell (DMCC) – DMCC personnel are responsible for the collation of information for implementation into the CFEWC knowledge base and database. A computer and or web design background are excellent skills to possess to work within this section.

Signature Collection and Management (SC&M) – SC&M personnel are responsible for operating either IR or Signal collection equipment, depending on their position within the section. They do find themselves on each Coast, Inland and from time to time visiting Europe as they provide support to all three elements within the CAF.

ELINT Co-ordination Cell (ECC) – ECC personnel use the Integrated Broadcast System which is very similar to the TRS onboard ship but with greater capabilities. This does require specialized training so before members can be employed within this section they must successfully complete the Operational SIGINT Analysis (OSA) course in Kingston.

Joint ELINT Analysis Cell (JEAC) – JEAC personnel are responsible for second line signal analysis. The majority of their work stems from the Sea Search Collects obtained by the Navy while at sea. Due to the nature of this work, assignment to this section requires completion of the SIGE 1030 and SIGE 2810 course, both of which are done in house.

Intelligence (INT) – INT personnel fill any missing Intelligence gaps to ensure complete accuracy of our products. They also manage the Request for Information (RFI) requirements within CFEWC and bring the unit up to date on world events during the weekly CO's brief.

We also have a small Admin section and a Canadian Security Establishment (CSE) detachment responsible for third line signal analysis within our organisation.

In closing it is an exciting time to be part of CFEWC. We continue to develop new ways on how to better support operations and push forward towards our goal of becoming a one stop shop for all of your EW needs. For all of you present during the NESOP PD day it was a pleasure spreading the word of CFEWC to such a captivating audience. We can't stress enough how it is you, our customers that we proudly support and therefore welcome any suggestions on how to improve upon our products.

#### CFEWC PERSONNEL UPDATE:

Another year has passed and it's once again time to say hello from the Canadian Forces Electronic Warfare Center in Ottawa. There have been some changes here in the past year, some have come and some have left, but we continue to push on and provide support to all branches of the CAF.

In our Data Management Cell PO2 Scottie Crouse continues to hold the reigns for the time being. He is set to receive a promotion and head back to the fleet in the spring. Don't worry, he is not out of dress, his SSI is actually gun metal. Master Seaman Colin Teasdale has been slaving away to ingest data into our developing EOB database while Master Seaman Steve Thurrott continues to do whatever it is he does. The section was joined by LS Rob Sinclair this summer and he has wasted no time in setting a new standard for quality within the section. Former NESOP Cpl Chad Foulds is working away in the section while he continues to await his AESOP training. Bet the Master Seaman position on Algonquin he was set to receive looks really good about now.

The Parametric section is working away under the direction of PO1 Jason Hassen. MS Kevin Granger remains there, a source of continuity in a section that has seen a lot of personnel changes over the past year. MS Granger was joined by newly promoted MS Scott McRae, moving up from NEWC. A guy so keen that I don't think there is an EW course available in this city that he hasn't completed.

Over in JEAC MS Trent Sampson became Cpl Sampson with his Occupational Transfer to the Air Force. He has been back and forth between Ottawa and Borden, for training, and we're sure he'll be turning wrenches on aircraft in no time.

Down in our Signature Collections and Management Cell, a couple of our boys continue to swear they have the best jobs in the building. Former LS, now Cpl, Tyler "Stewie" Stewart received his Occupation Transfer and now wears the relish green uniform while awaiting his Water, Fuel and Environmental Technician QL3. A move from the Royal Canadian Navy to the Army is probably quite rare and we're not sure whether to congratulate him or send him to have his head checked. LS Ray Ivanauskus is enjoying himself as a member of SC&M's IR collections team and LS Tyler Ross moved from the EOB section down to take Stewie's place on the RF collection team. With TDs to the coast for trials, and to Chesapeake Bay for "training", life seems real rough for these guys.

Finally, it has been business as usual in the EOB section. PO1 Dave MacNevin continues to drive the section to meet deadlines while maintaining the highest quality. PO2 Joe Berube acts as PO1 MacNevin's right hand (luckily, Dave's left handed) as he counts the days to retirement. MS Christopher Russell has settled into his role as section MS, turns out PO2 Mike Spence was an easy act to follow. LS Layton Theriault has settled in nicely in the 14 months he has been with us and has even found time to produce a product or two between Arms' days at the gym. LS Sebastien Turpin Thauvette joined the section from the east coast this summer and, being from the Ottawa area, is happy to be close to family and friends once again. Unfortunately, the dry climate has done nothing to improve his hairline.

That pretty much sums up CFEWC for this year. From everyone here in Ottawa have a safe and happy holiday and yes both the East and West Coast can work together in harmony.

MS Chris Russell (West Coast) and LS Rob Sinclair (East Coast) Sends.....



Attribution Perry Bible Fellowship Comics: <http://pbfcomics.com/134/>

DNOP (Director Naval Operations and Plans) SSO Readiness/MDA CPO2 L. Thompson

Big Hello to all NESOPs on the coast from NSHQ and Brrrr yes its cold here again. With all of the establishment changes that took place over the last year or so I'd like to make sure all are aware of the new ORG name and role that our CPO2 NESOP position holds here on the Naval Staff.

Formally known as DMPOR we adopted the name DNSO (Director Naval Strategic Operations) for a short period of time. This has since been changed to what we are currently called, DNOP (Director Naval Operations and Plans). DNOP responsibilities currently are but not limited to RCN readiness and sustainment, MDA (Maritime Domain Awareness), Strategic level operations and exercise planning, RCN Situational Awareness, ect.

The NESOP CPO2 position held here at DNOP works directly under SSO Readiness LCdr and is now titled as SO Readiness/MDA. As one of the RCN MDA representatives, the CPO2 NESOP is involved in all aspects of MDA. With this task, the CPO2 position attends a variety of meetings which focus on pursuing initiatives pertaining to the future of MDA. This ongoing work is done with several CAN/US organizations working on a whole of government approach to solve issues or gaps recognized in our current MDA approach. A key part of this position is working hand in hand with a multitude of other CAN government agencies, all belonging to the CAN only IMSWG (Interdepartmental Marine Security Working Group).

For those aspiring to eventually take an Ottawa posting, this position is very rewarding and keeps you at the forefront of current and future operations and planning. Daily, this position can be exposed to high level strategic discussions and planning for future operations, future planning for readiness and sustainment levels and high level strategic discussions and work for ongoing and future initiatives pertaining to MDA.

With one year now into my posting here at DNOP, I can honestly say living in Ottawa has been a great experience thus far. Being so close to parliament for the military and civilian ceremonies has lifted my National pride and enlightened me to how much Canadians appreciate their service personnel. That being said, one never forgets or stops longing for the camaraderie of being at sea with good friends, the smell of salt in the air and the anticipation of the next port.

CPO2 L. Thompson  
SSO Readiness/MDA  
DNOP  
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Sometimes the best part of  
my job is that my chair  
swivels.



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# From THE EAST COAST



Merry Christmas to all our fellow NESOPs out there.

The new holiday season sees us here at CFNOS like the rest of you out there Short, Short , and yes Short personnel to teach and get ready for another year of courses to mould the minds of fellow Canadians to aspiring NESOP's and future leaders of the NAVY.

Leading the charge at CFNOS is CPO2 Pat Saunders. Keeps himself busy trying to find money to load courses and get people to fill the much needed billets here at the school. Next we have our two fearless Senior Instructors. First we have PO1 Gordy "I'm too old for this S#\$T" Carmichael who spends his days running around like a chicken with his head off trying to curb all the headaches that were giving him on a daily basis, but we do it just to keep him young. PO1 Duane McNamara whose favorite saying is "I'll have PO2 Metcalfe handle that" while he stares lovingly at his Red Sea Training Atlantic hat, longing to be there again. Next we have PO2 Jody "Bagsy" Baker who is currently on his QL-6B course. We wish him all the best but secretly can't wait for the trainer phase where his hair will fall out and he'll really look like a PO1. Next is PO2 Samuel "The reverend" Metcalfe who is spending his days in the trainer with the new RQ-6B course or as he says "Doing Duane's job again". Sam will hopefully get promoted in the New Year and go on to bigger and better pastures. Then we have MS Sheldon "A\$\$ Clown" Compagnon who sits here and lectures us about our Carb intake while he sucks down 8 Pizza pops and says everything is good in moderation. We have MS Simon "Baaa Haaa" Parker who you can hear on the other side of the harbour and has a tendency to have a way of making

things fit where normally you wouldn't think went there. Any of you out there who have sailed with Parker already know what I'm talking about. MS Andy "I'm the only FCS" Richards has been busy with the trainer with MEGA phases, Weapon's Cert, ORO Course and now the QL-6B. Just getting him primed for the New Year with new OPI duties just to put a little frosting on the cake you might say. Last but not least we have MS Paul "I got to get back to sea" Haynes. Paul spends his days dreaming of the days when they will run a RQ-6A course that doesn't get zero loaded. The only other time he's happy is hunting and bragging about the deer meat in his freezer, by the way you still owe me a steak! I guess that just leaves me PO2 Dan "Who never stops talking" Curlew. Posted here in July and just completed my CMS training so if PCC is reading this stop calling me at home and call CPO2 Saunders for another EWS. We are running our Mega's in Seawolf and training in Seacot and all is good, a large learning curve for everyone student and staff alike but if we work together we will be Victorious. If you have anything in the Fleet that works and is not in our QSP or instructions please let us know, we welcome everyone's input. Anything that makes it easier for you going to sea doing the business of the NAVY we want to know and make things better. We would like to wish our entire NESOP family a Safe and Happy holiday season and a prosperous New Year.

PO2 Curlew

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## *HMCS TORONTO*



This update comes from HMCS Toronto sailing in the Mediterranean Sea on Op Reassurance. This year has been extremely busy for the NESOPs of HMCS Toronto. It all started with WUPs on Ville De Quebec in February, the crew swap with Toronto in April, pre-deployment administration, trials and then an open ended deployment with a blank return date. We have experienced a variety of unique situations; whether it be Russian surface and air encounters in the Black Sea and Mediterranean, or migrant vessels and abandoned dhows. By the end of this deployment, we'll have been to 7 countries, and 12 ports.

Using our Frankenstein 57 is always charming, trying to figure it out during Workups was a real treat, but we've worked out all the oddities. We've become fairly adaptive with creating aggressively unsinkable targets. As always, RAMPADs are a real treat. As the last ship to have CANEWs onboard, we're very excited to never see it again and move on with our lives.

New PO1 Murray is apparently way better than old Murray according to MS Kuffner. Kuffner started the deployment with 10 working digits, and ended it with one horribly disfigured pinky after an exhilarating foot race disaster with LS Lemire on their way to McDonalds in Marmaris, Turkey. He also lost ten pounds, and then gained twenty. MS McPhee made a killing at the canteen and should be in jail for those outrageous prices. PO2 Hunt is the smartest man alive. PO2 Froese finally got up to 200lbs, but most of that is his hair, tea tree oil and self-confidence. You gotta eat big to get big.

LS Khuram had 5 really great mustaches, and LS Lamarre gave us all colds several times. AB Thorne's baby is due in April, he got to skip out on an entire pregnancy, and his wife wouldn't stop mailing us her baking. LS Beaulne loves to yell at us for waking him up in the mess, yet he's the loudest snorer. LS Hardy loved his

carepackage from the Iroquois, and he's my favourite because he's always the first one in at turnover. LS Mercier lives on Red Bull and car payments, and looks great in a pair of coveralls. OS Nicholson can always be depended on to smell nice and make us act like gentlemen, mostly.

We have a routine in 2 mess in every port where we pillage each other's care packages, turtles and Ferrero Rocher's are worth their weight in gold. We've been highly effective in stealing the CDSE team's candy.

All in all, this deployment has been a great experience for us and we've been to a lot really great places we could never afford to go. We have a lot of things happening with Toronto when we get back, trying to get her in the ditch smoothly, and most of our HCM courses. We look forward to George Street in St. John's, and the eventual walk from the jetty of shame to get home to our friends and family (at the Dome).

LS Laidlaw

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## *HMCS MONTRÉAL*



## **TON BRAS SAIT PORTER L'ÉPÉE**

So here we are again, a new year and a new NESOP News Letter, not to be confused with New England School of Photography News Letter, but to be fair they do some nice work. When y'all heard from us last, we had just returned freshly burned from Bermuda and heading into a summer leave period, as we needed to relax after Bermuda.

But we paid for a relaxing summer with 4 VERY long, busy months. September had us in and out the harbour more often than a deranged prairie dog as we started SATs. October was a sandwich of SATs with a meaty center of SAFECERT. November would see SATs continue, a successful OTT phase, but more importantly November saw rounds go down range. Honestly after a year of re-storing, RRI's, SATs, SAFECERTs, OTT there was nothing more satisfying than the sound of the gun. Finally December would roll around and finish off SATs and bring the bliss of Christmas leave.

While the afore mentioned events are important, they pale in comparison to the people who made them happen. So without further adieu, here is the who's-who of HMCS MONTRÉAL's NESOP section. After a year and a half onboard as COXSWAIN, CPO1 James "this is the most important \_\_\_\_\_" Percival exits stage left. Rumor has it that he is headed back west; one can only assume a statue of limitations has expired and is allowing him to return home.

CPO2 Ron "Candy Man" Carr has divided his time between CBT Chief for rag tag band of Ops types and Force Protect Chief for an equally rag tag band of QRT personal. His never ending bowl of unsecured, yet unmoving candy is a source of morale of the entire ship.

Rumor has it that, PO1 Norman Anthony “We Need a List” Phee has finally run out of things to put on a list and may be making his escape good from the MONTRÉAL. PO2 Hollie “Come on Guys” Blakney returned just in time for OTT. PO2 Scott “One Time in \_\_\_” Wells has become luck and has escaped MONTRÉAL on a TD at Stadacona gym.

MS Christian “I will populate this land” Williams is still on paternal leave. One can only assume he has his paperwork ready for a new fiscal years paternal leave ready to go. MS Christian “Mumbles” Fralic having reached escape velocity has landed safely on HMCS IROQUIOS. No doubt dispensing his wisdom and shaping new minds. His replacement, still smelling minty fresh, is MS Jory “Turn Down for What” O’Brien. He materialized like red shirt during OTT, and somehow is still alive.

LS Adam “YES! I’m Still Here” Langford is indeed still here. The SRD-504 has moved further than he has. LS Cody “Just do What I Say” Johnson while maintaining all of his old hats, has picked up a new one, watch leader for the STBD NESOPs. LS Kenneth “You Don’t Know me” Stevens is still around, with MS Fralic gone, he has once again secured the title of “Oldest NESOP onboard. LS Kenneth Squibb, News Letter author, former PORT watch leader and QRT extraordinaire is still onboard like a piece of fitted kit. LS Mike “The Situation” Ivanic fresh from his 4s showed up just in time for SAFETCERTs and SATs. LS Scott Broderick, received his battlefield promotion at the end of OTT, and is one of the best OS wranglers in the business. Rounding out the LS of the MONTRÉAL is LS Peter Azariah “The New Diver Onboard” Gosse back again, aside from having a cool middle name he is a good NESOP too. In mid July while everyone was gone, 3 OS snuck onboard and seemed to be stuck here. OS Ryan “Just One More Question” Malcolm probably has more answers than he realizes, and will hopefully look for tattoo shops with me in New York and Norfolk. OS Sean Ewert has come to the ship with a zest to do the job, and seems to be in direct competition with MS Williams for increasing NS population density. Finally is OS Sean “Trying to be Gray” Bisson, the last of the new OS to show up, while still believing himself to be only attach posted, little does he know that the MONTRÉAL is loathe to let go...

But sometimes it does. Since the summer we have seen 3 of our Jr members get posted away. LS Robert “Did you Read \_\_\_?” Sinclair has been posted to Ottawa. He is like the Stephen Hawkins of the NESOP world... if Mr. Hawkins also took candid photos of NESOPs lol. Mr. AB Joey “Slum Dogg” Cummins managed to snag a coveted spot on the HMCS FREDERICTON’s deployment roster and is once again loose on an unsuspecting world. Last, but not least AB Ryan “El Smootho” Lawrence has also manage to snag a seat on the FREDERICTON.

Scribed by:

Leading Seaman Squibb



# From THE WEST COAST

## *West Coast Advisor Report*

By CPO2 Wayne “Bill” Frerichs

MARPAC Occupation Advisor  
SENSORS SECTION CPO CFFSE

Greetings and salutations from the wild and wet West Coast.

CFFSE is now instructing fully CSI compliant course at all RQ levels as well as the conversion course to make us all HCM friendly. HMCS CALGARY is now a fully operational unit within the RCN. HMCS WINNIPEG has completed WUPS and OTT2 as it moves to full operational status. HMCS VANCOUVER is conducting sea trials and moving forward towards operational status. HMCS OTTAWA is completing its’ refit and the crew is getting ready to start the training cycle and preparations to move back onboard. HMCS REGINA has completed its’ mission and is preparing to commence the refit cycle. The announcement was made that we will soon decommission both HMCS ALGONQUIN and PROTECTEUR, both units have provided the RCN with long and distinguished service and it is time for them to pass the torch to their successors. As I said last time there are more changes to come and the future of our occupation continues to look bright and interesting.

To all those personnel who have graduated from QL courses in the last year, too numerous to name them all, BZ and congratulations. To those who have been promoted, CPO2 Scalabrini, PO1 Crouse, PO2 Tremblay D, PO2 Sheppard, PO2 Hamilton, PO2 Pyza, PO2 Demarce, MS Bishop, MS Morris R, MS Walker, and MS Chalovich your hard work and dedication have paid off, congratulations and enjoy your new rank.

And to our retirees, thank you for your service. CPO2 Macfarlane, PO1 Green, PO2 Bevil, and MS Gray, your service is appreciated and best of luck in retirement.

Our occupation is now in the full swing of being instructed at all levels within the HCM construct. We, as an occupation are now able to apply to be SACs, QL5A and above. This will be an excellent opportunity for those willing to venture down this path to grow inside and outside the trade to make themselves more rounded and hopefully better as and EWS or SWC. We are reaching a tipping point of having far fewer shortages at all rank and position levels.

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### *AWWTC Black Rock*

Good day, from the place we can all call home, Black Rock.

D-218 Cayuga has finally wrapped up her last legacy course, which was a QL-4 that graduated on 23 July 2014. As usual The Rock remains a hive of activity, less so with in-house courses and more so with the transition of all QL courses to HCM and also with the preparation of being capable to HCM train the westcoast Above Water Warfare Teams. If our loyal readers recall, Black Rock's staff sadly watched as the 3" 50 was removed last year from above the bunker, to the contrary, CANEWS couldn't be removed quick enough. CANEWS went through her last training serial on 2 May 2014 and nineteen days later SHIELD suffered the same fate. Both remain fully intact on the property, for some reason no land-locked reserve units are interested in displaying them.

The Above Water Warfare Training Centre continues to be lead by CPO2 W.W. "Bill" Frerichs. PO1 Lloyd Boutillier remains as the Section Supervisor, PO1 John Penner has left the Rock for the DCC school leaving an empty chair behind! PO2 Heslop is currently attending the QL6B in Halifax. PO2 Eric Lemay who joined us in May coming in from HMCS OTTAWA had the pleasure to instruct the latest RQ-LS (QL5A). PO2 Mark Simper who has joined the AWWTC in August was OPI for the RQ-OS (QL3) that graduated in February. PO2 Billy Blore has joined Cayuga in July after serving three years with the CFFSE Leadership and Recruit Division. PO2 Davidson is currently TD here from HMCS VANCOUVER and PO2 Mack who is also TD in, belongs to HMCS WINNIPEG. MS Buch is now back from PATA leave and is now terrorising the two PATS we have; OS Rhodenizer and LS Nemes. MS Cote was posted in July after successfully completing the Continuous French Second Language Training and just recently graduated his PLQ in February. I (MS Pierre Lacombe) was posted in to the AWWTC in April from HMCS OTTAWA. I just finished molding the latest RQ-OS into what I hope will become valued members of NESOP teams. The following young and not so young gentlemen will be joining the East Fleet; OS Sellars, OS Storvik (Rising Crow), OS Brophy, LS White and LS Roth while those will join the West Fleet; OS Pelletier, LS Rigby and LS Wilson. Our latest addition to the team is MS Marier coming from HMCS CALGARY. For his first instructing assignment he was sent to Halifax to instruct the RQ-AB (QL4). We wanted to keep his morale up so we made sure to send him pictures from Black Rock looking out to the ocean and the nice blooming flowers

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### *HMCS REGINA*



Over the past year REGINA's NESOP section has been deployed overseas as part of OP ARTEMIS and was later re-tasked to the Mediterranean Sea as part of NATO's OP ACTIVE ENDEAVOUR. The deployment started with an intense mission work ups followed but a not so intense CBRN work ups. After

that we were ready and anxious to get into the box, along the way we made port visits in Guam, Manila, Singapore and the Maldives islands. We finally chopped into the box while enjoying multiple visits to Seychelles and my personal favorite Tanzania. During this time we did multiple boarding's which resulted in one bust, which as you know, we successfully intercepted 132kgs of heroin. While in Tanzania a few of the NESOP's took a chance to go on a safari and upon return encountered a car accident. LS Tellier spearheaded the effort to rescue trapped passengers which he received a CJOC Commanders commendation for his efforts BZ buddy. AB Perron on loan from HMCS OTTAWA flew out for a few months to assist the section while NESOP's flew home for HLTA; we thank him for all the support he provided. Then the curve ball, the overnight news of our mission change. The new mission involved ports like Crete, Greece, Malaga, Spain and Istanbul (it was a real shame). After a few long months it was time to head homeward. The trip home saw decompression landing in Georgetown, Malaysia, as well as stops in Shanghai, China and Tokyo, Japan for everyone's favorite thing, cocktail parties The NESOP's volunteered and worked many of them in full force. The trip saw the NESOP's working tirelessly on what seemed to be endless RECCE packs, platform briefs, Sea Search collects, upper deck maintenance and cleaning stations. During our deployment there were a few promotions; AB Barrette was advanced promoted to LS. AB Biccum was promoted to LS, and OS Earl and Lalonde were reclassified to AB, congrats boys keep up the good work. AB Males finished up his first contract, however elected to try his luck outside of the military, we wish him a happy retirement. With the REGINA returning home safe and sound from a very long deployment, the NESOP section took a well deserved break to spend time with their families. Upon return PO2 Spence got married, congratulations to him and his new wife (you know what that means next is children). Just as quickly as the leave period started it ended and the ship had to transition out of vacation mode and back into work mode. First we assisted HMCS CHICOUTIMI with their trials. Followed by a week of de-ammoing and de-fueling. Our beloved CBT Chief CPO2 Macfarlane has retired (To be a train conductor, who would have thought). PO1 Featherstone is STILL telling his old steamer stories and will be taking on the shared duties of CBT Chief. PO2 Wilcox and PO2 Spence have since attended a NELP course and MS Wiebe has been posted to HMCS VANCOUVER (VANCOUVER's NESOP's best prepare for endless cat stories). LS Barrette and LS Biccum have recently completed their QL-5A, and look poised to adopt a new role within the section. AB Earl and AB Lalonde are eagerly studying for their upcoming QL 4 and LS Tellier is preparing for his QL 5A course in January, good luck to them. As for the rest of the NESOP's we are anticipating a very busy schedule as our ship makes its way into re-fit and prepares for HCM training in the spring of 2016.

Yours Truly  
LS Barrette

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## ***HMCS OTTAWA***



Hello fellow NESOP's from the exciting and ever changing Stone Frigate that is H.M.C.S. Ottawa Shore Office. The winter season is upon us, thus we are ramping up for OP Christmas Block Leave that has our PO2's racking their brains to ensure each leave pass is correct and the rest of the section making homemade Christmas Decorations in the lunch room to decorate our magnificent office. These are critical times in OTT's preparations

for a busy New Year that will include the OPS team traveling to Halifax for “Training”, getting our ship back and of course having the entire ship’s company redo 3 fire tours and the fire exam...just because it’s good training. Enough about the monotony of daily life as a NESOP on H.M.C.S. Ottawa, now on to the important things. We may sound bitter or disgruntled but I assure you we are quite happy. Our section is outstanding, top to bottom we have plenty of laughs, great morale and we all have each other’s backs on a daily basis.

On to the team! Starting at the top, PO1 Kyle “I’m gonna need more coffee if I’m gonna deal with this” Timmons is busy learning about new systems in Halifax and we miss him greatly and we hope he has a great birthday in Halifax. Next are our famous PO2 Morgan “Murica” Miller who is back in town from his QL-6B’s and currently prepping for a wild American Thanksgiving Day filled with Freedom Turkey and Football. PO2 Martin “Duey” Duhamel is newly posted in from CFRC Kingston and is happy to announce the birth of his twin boys Oliver and Henry who like to keep him up at night, making him rely on tubs of Sour Keys more than ever before. We are currently taking applications for two Master positions...if you want a Beaver on your chest feel free to talk to your career manager. LS Sonja “When I was on PLQ” Allison-Ryan is fresh off her PLQ and still walks gingerly for fear of baby powder IED’s around every corner and under every door mat. LS Steve “Have you seen the size of my truck” Martin is busy studying EM Theory to prep for his QL-5A course in January. LS Adam “FNG” Carnegie is really just an old salt who thought the grass was greener, but has returned to the glory of H.M.C.S. Ottawa after a one year hiatus from life in the navy, welcome back Adam. LS Derek “Forever 21” Urichuk completed his QL-5A course and is helping prep the section for their future 5’s courses and is getting set to have laser eye surgery to give him 21/20 vision. LS Dan “Batman” Lucia is living the life of a NESOP by day and training to be a cage fighter at night...glad you are on our side Dan. LS Chris “I have a handicap” Plamondon is prepping for his QL-4 course in January and more importantly has been prepping for retirement by working on his golf game literally everyday in preparation for a ProAM in Vegas this November. AB Sascha “I’m a First Aider can I help” Perron is back from a rewarding experience on OP Distinction in Ottawa guarding the Tomb of the Unknown Soldier and working on USAR and prep for his QL-5A’s. AB Stuart “I’m a Diver” Carmichael completed the Ship’s Team Diver course and now talks more about diving than he does about emerging platforms and that’s impressive. AB Matt “Cue Card” Cormier is busy making study notes for the section for Fire Fighting Exams; know your ship books and QL-5A EM Theory because he is a glutton for punishment.

By AB Matt “Cue Card” Cormier

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## *HMCS CALGARY*



Greetings and salutations from the Calgary NESOP section as we continue to lead the fleet and HCM right into the holiday season with some pre-Christmas sailing. Our last newsletter saw the team finishing RIMPC 14 and getting ready for more missile trials in SOCAL. Nothing like starting a busy fall sailing schedule with our favourite trip to Halifax where we threw PO2 Gougeon into the fires of OTT2 to welcome her into the section. She fared well and has really blended well with the section. With her came PO2 Heslop who had already joined us for RIMPAC, and was getting prepped for round two of his QL6B.

After returning triumphant from Halifax with swollen livers and some serious jet lag, we turned our sights to our trip south of the border. Of course we could not begin a trip without saying goodbye to some members, and welcoming others to the section. Unfortunately we had to say goodbye to the “gunslinger” MS Marier, who faithfully gave the Calgary close to eight consecutive years of service. In his place we found two unwilling leading seamen to take the place of “acting master” and FCS. LS Borys, the most qualified LS in the fleet, and the oldest, and the upstart LS French, the man of many hats and little hair. Walking onto the ship just prior to the sail, we picked up OS Petkov, our favourite Russian spy. OS Roberts our gentle Caribbean friend and OS Beaupre-Nadeau who is now the king of scullery.

For some it was their first sail, and they were asked to learn quickly in order to keep up with tempo of the ship. The missile shoots were a “success” because even though we missed every target, at least we got good data right? Immediately following that we picked up LEDET and headed to the coast of Baja, where six hours into it we were hot on the heels of a Mexican boat loaded with Marijuana. One bust worth millions of dollars later, we spent the next six days floating on some of the calmest and warmest seas we had seen yet. But all good things must end, and in their place we had more good things lined up. FLEET WEEK! What a reception it was. Thousands of people lined up daily to tour our ship, sailors out in uniform, proud to serve and proud to be seen serving. It was in San Francisco that we sadly had to say goodbye to PO2 Heslop, who returned home for a brief respite with his family before getting tossed back to Halifax for his QL6B but not before he tried to break the CPOs mess blender by making “Sexy Rexies”. In his place with some big shoes to fill came our new master, acting PO2, MS Truscott. Definitely hitting the ground running, he has been playing catch up with the new equipment, and doing an admirable job as EWS.

I would like to take a moment to mention that the section really is held together by the work done by the junior ES operators. Without OS Lameris constantly flexing his biceps in Ops, not caring at all whether or not someone is watching, or OS Evans witty sarcasm and his deep devotion to the ocean and sailing in general or AB Lajoie acting as translator for the section, who “knows” more about ELISRA libraries than any man alive, and who is also happy to tell you that. OS Thomas, our seasoned older NESOP, with no scruples and a habit of paying off cabbies with his watches. LS Zaruba or “BGB” as he is fondly referred, who makes up watch rotations so LS French doesn’t have to. And our personal favourite, the Ginger Ninja now LS Berube, who successfully got himself charged one week, then promoted the next, props to you my friend, and pray I don’t find you sleeping at ELISRA.

After successfully destroying all the submarine threats during TGEX via chat battles between OROs, the crew was finally able to turn their sights to the return journey home where we could all take a collective breath and relax. NOT! Three days later we are back on the seas, and that’s the way it’s going to stay until shortly before Christmas. A huge congrats goes out to PO1 Dawson on his successful completion of his QL6B and recent promotion. Well Done!

We pray for the return of AB/LS “old balls” Price, a heartfelt congratulations as well for his elopement, we are all just sad he didn’t wrestle a komodo dragon. We are also going to be graced shortly with the imminent return of MS Silver, whose “dragon” days are sadly over.

Thankfully I believe that wraps things up on our end for now, though in the New Year we will see several of our members brought to the school to take the next step in their naval careers and we wish them all the best on that next step. To PO1 Esquivel, good luck finding a replacement, and Merry Christmas and happy holidays to everyone on both coasts.

LS French



Attribution Perry Bible Fellowship Comics: <http://pbfcomics.com/134/>

# Next Generation Electronic Warfare

## Disruptor SRx™

Detect. Defend. Disrupt.

EXELIS

### THE NEED FOR NEXT-GEN ELECTRONIC WARFARE

- ▶ With today's increasingly sophisticated threats, technology must rise to meet the challenge. Adaptability and functionality - regarding platforms, missions and domains - are key to success.
- ▶ Anti-Access/Area Denial (A2/AD) challenges prioritize the need for responsive and adaptable technology to efficiently and successfully navigate through dense radio frequency environments, and provide the warfighter with greater situational awareness.
- ▶ The traditional model of one system versus one threat is changing. Complex missions call for smart systems that address multiple threats.

### THE DISRUPTOR SRx MEETS THESE NEEDS

- ▶ The Disruptor SRx represents the next generation of electronic warfare with a multifunctional smart sensor that reacts and adjusts to complex electronic warfare missions.
- ▶ The Disruptor SRx can be reconfigured to fit the demands of a variety of air, sea and land platforms.
- ▶ The Disruptor SRx navigates in a range of electromagnetic spectrum frequencies through a nimble, multifunctional, open architecture system that enables a more rapid turnaround time to complete critical missions.
- ▶ The software programmer "system on a chip" solution can be built to address more threats than ever before and is easily upgradable - providing greater flexibility and affordability.
- ▶ Enabled by advances in microelectronics, the Disruptor SRx increases capability while decreasing size, weight, power and cost.

### NAVIGATING GLOBAL THREATS

### MULTIFUNCTIONAL CAPABILITIES

Disruptor SRx can be deployed to support various functions.

### FULL SPECTRUM COVERAGE

RADAR (search, early warning)			RADAR (acquisition, fire control)			SEEKERS		
A/B	B/C	C/D	E/F	G/H	I/J	J/K	K/L	
LOW FREQUENCY COMM			TACAN GPS COMM CELLULAR			LINE OF SIGHT COMM		

### CUSTOMER BENEFITS

The Disruptor SRx meets the unique and critical needs of users operating within an electronic battlespace. Designed for any platform, the system enables:

- ▶ Real-time mission adaptation through cognitive capability
- ▶ Multifunctionality to meet all mission needs
- ▶ Reconfigurability for manned and unmanned air, sea and ground platforms
- ▶ Streamlined platform maintenance and upgrade
- ▶ Lower life cycle costs
- ▶ Enhanced capability with reduced size, weight and power

The trend in the field seems to be toward further and further integration between passive and active capability, so that what was once two distinctly different functions (ESM and ECM) are combined in a single multifunction system that intercepts and classifies signals and generates a jammer response if needed. Moreover, we are seeing a steadily evolving trend toward “machine learning” – Disruptor will allegedly intercept and classify even signals which have never been seen before and use its logic circuits to determine what kind of threat it

presents. It is capable of signal comparison against a known library, as traditional systems do, but will not be confused by first-time intercepts.

*“Disruptor SRx takes advantage of modern microprocessor and RF circuitry design to fit a digital receiver, digital radio-frequency memory (DRFM) and a digital signal processor in a single module. The module has a standalone capability to both identify signals against a threat library (as traditional systems do) and classify unknown signals and generate jamming signals if necessary, using high-speed processing and "machine learning" to respond on the fly.*

*Because the modules are self-contained, a system based on Disruptor SRx is not reliant on a centralized EW management computer to identify signals and generate countermeasures techniques. This cuts out system-wide connections and reduces latency, helping the system to react.”*

As if that were not enough, Disruptor – still in the prototype stage – will have a frequency range which encompasses from A and B bands all the way up to millimetre-wave missile seekers. And be compact enough to fit in a UAV (probably a fairly large one, though, such as Global Hawk).

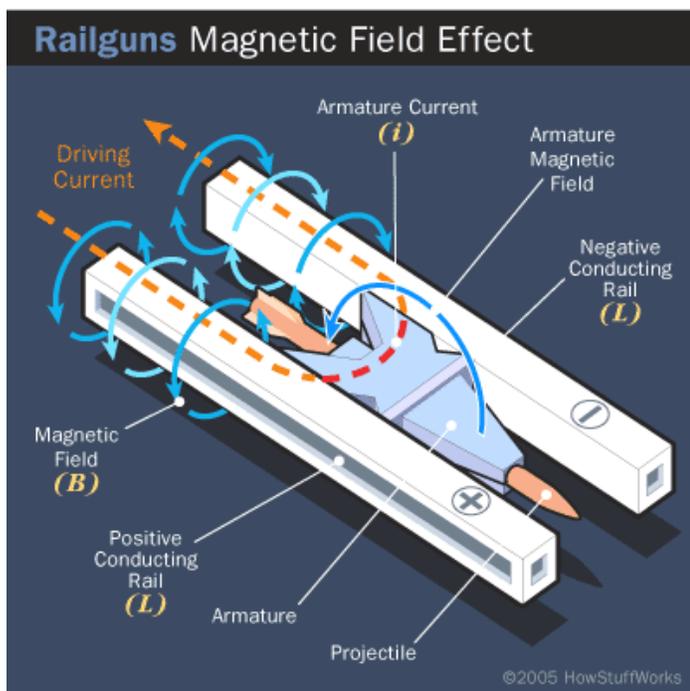
<http://www.marketwatch.com/story/exelis-to-launch-next-generation-electronic-warfare-capability-at-aoc-annual-symposium-2014-10-06>

<http://aviationweek.com/defense/exelis-unveils-cognitive-electronic-warfare-technology>

<http://www.exelisinc.com/solutions/Disruptor-SRx/Pages/default.aspx>

## Next Generation Gunnery

We spoke awhile ago about a new weapon being developed – actually an old idea that has been updated to “possible” thanks to refocused attention on the concept – known as the Rail Gun.

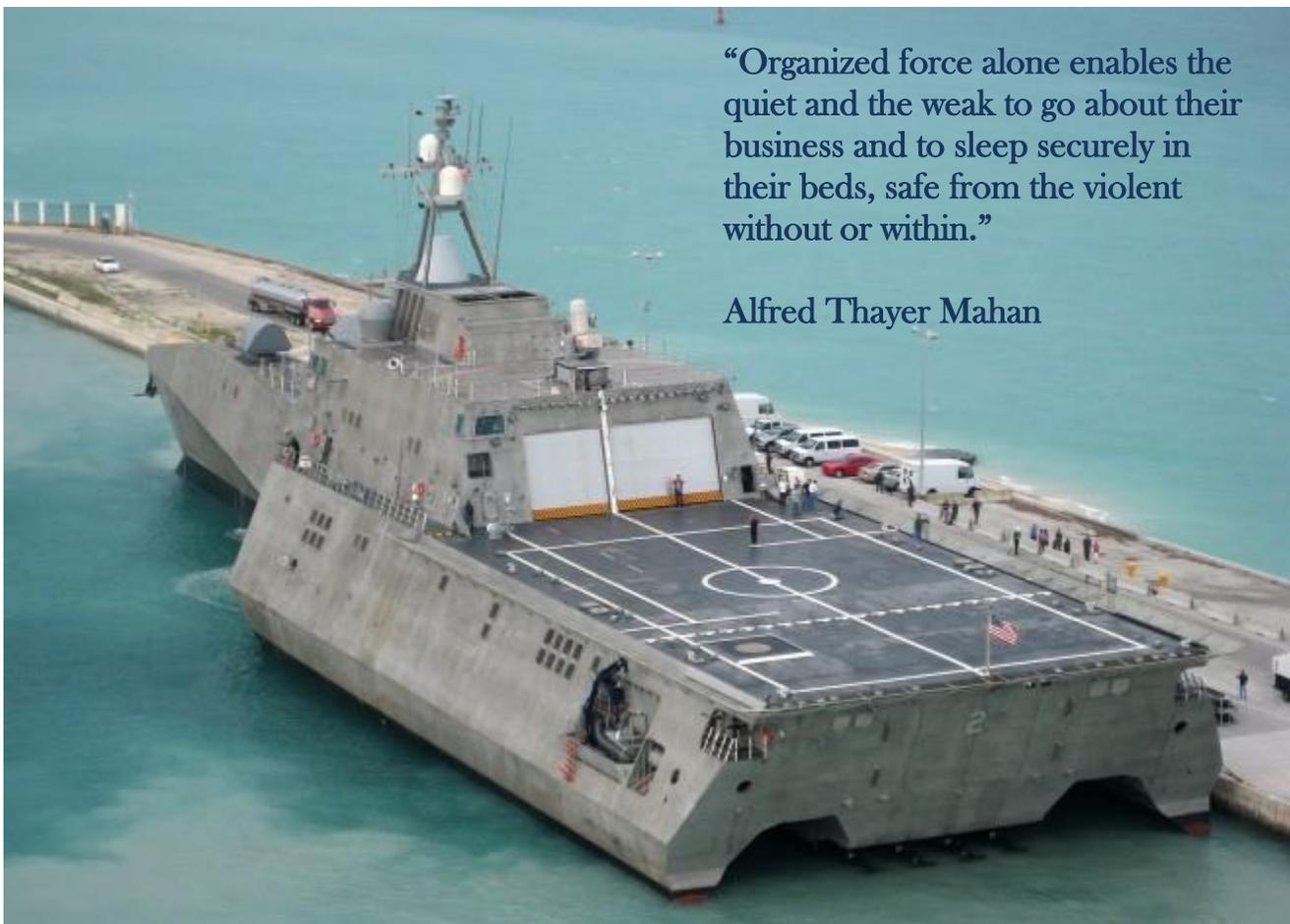


A rail gun is basically a large electric circuit, using two parallel conducting rails, while the armature which bridges the gap can be a carrier for the round or the round itself, which is typically not explosive but inert. Generation of a powerful magnetic field causes the armature to be subjected to what is called a Lorentz Force, which flings the sabot or projectile from the aperture. Presumably the rails can be elevated to achieve range and prevent you from shooting off your own bullring. Potential range is fantastic, far in excess of current naval guns firing explosive projectiles.

<http://science.howstuffworks.com/rail-gun1.htm>

Naturally, it's not that easy, and a number of problems remain. For one, the rails have to remain parallel, so they can't be very flexible and the requirement will tend to make them heavy and probably take up a lot of space. The power requirements are massive and probably not doable using current technology. Nonetheless, the U.S. Navy is toying with the idea of having a rail gun replace one of the mounts on the ZUMWALT Class, and plans to trial the concept at sea next year.

<http://www.seapowermagazine.org/stories/20150205-navsea.html>



“Organized force alone enables the quiet and the weak to go about their business and to sleep securely in their beds, safe from the violent without or within.”

Alfred Thayer Mahan

And that's it for now. Enjoy your leave with your families and friends, if you are so fortunate as to have it, and spare a thought for those sailors everywhere whom duty keeps at sea protecting those who pass upon it in pursuit of their lawful occasions. Fair winds and following seas.

**FIN**