



Royal United Services Institute of Nova Scotia

Dispatches

20 September 2019

The Royal United Services Institute of Nova Scotia provides a forum for the study, promotion and debate of defence and security issues.

Dispatches is a weekly collection of links and news of current interest, included those tweeted and posted by the Institute on social media. Links to articles are checked at the time they are put into *Dispatches* but may be unavailable at a later date or in some states other than Canada.

If you are not a routine recipient of *Dispatches* but wish to be so, email the Institute's Chief Information Officer (CIO) at RUSINovaScotia@gmail.com. If you do not want to receive *Dispatches*, or wish to receive it at some different frequency, please inform the CIO. If you wish to receive *Dispatches* at a different address (i.e., not your work address), please inform the CIO. Past editions of *Dispatches* may be requested by contacting the CIO.

Everyone is encouraged to email to the CIO links and other content to be included in *Dispatches*.

Submissions and feedback are welcome anytime. Comments to articles can be from members or non-members of RUSI(NS). Any comment in *Dispatches* is the sole opinion of the author and does not necessarily represent the views of the Canadian Department of National Defence, the Canadian Armed Forces, the Royal Canadian Mounted Police or the Royal United Services Institute of Nova Scotia

RUSI(NS) also publishes a weekly *Defence & Security Newsletter*, aimed at opinion leaders and industry. If you are interested in receiving the newsletter, or want past editions, email admin@duncom.ca.

Events:

Invitations for Remembrance Dinner 6 November have been sent out. Please RSVP soon if you intend to attend. Evening, Royal Artillery Park Officers' Mess.

To list an event in *Dispatches*, email the CIO by noon Thursday. RUSI(NS) events are by invitation only. If you are interested in attending and have not been invited, email RUSINovaScotia@gmail.com. RUSI(NS) events may be cancelled at short notice – email RUSI(NS) if there is a question of an event occurring.

Keep an eye out for changes to our events program for the next while due to the election. With the 'drip' (really, 'drawing') of the writ(s), the 'caretaker convention' applies. For more info about the convention, see: "Guidelines on the Conduct of Ministers, Ministers of State, Exempt Staff and Public Servants During an Election" (<https://www.canada.ca/en/privy-council/services/publications/guidelines-conduct-ministers-state-exempt-staff-public-servants-election.html>).

25 September to 22 November - The Brian Mulroney Institute of Government, St. Francis Xavier University and the Naval Museum of Halifax are co-hosting an exhibit titled 'Through the "More Northerly Route": *St. Roch* and the Northwest Passage Transit of 1944.' Naval Museum of Halifax, CFB Halifax.

"Seventy-five years ago Henry Asbjørn Larsen and the crew of *St. Roch* completed the first single season transit of the Northwest Passage, covering 11,740 kilometres in 86 days. The voyage also marked the first successful transit of the Passage's northerly route. This exhibit, co-developed by faculty and students at St. Francis Xavier University, answers why the Canadian government chose to send *St. Roch* to the uninhabited islands of the High Arctic in the middle of the Second World War and explores the experiences of Larsen, his crew, and the Panipakuttuk family on the remarkable voyage."

See poster at end of *Dispatches*.

16 October, Wednesday - Distinguished Speaker TBA. 1130-1330. Royal Artillery Park Officers' Mess.

Recent Publications:

RUSI(NS) Info Quest "BREXIT and the Canadian Surface Combatant" <https://rusi-ns.ca/brexit-and-the-canadian-surface-combatant/>, 10 August 2019

RUSI(NS) Information Note "A System to Judge Information Reliability" <https://rusi-ns.ca/a-system-to-judge-information-reliability/>, 4 August 2019

The United Services Institute of Nanaimo and North Island (USINNI) Newsletter Vol 27 No 09 September 2019 is available on request to RUSINovaScotia@gmail.com.

Tweeted by @RUSI_NS: RUSI(NS) tweets may also be viewed by clicking on the icon at <https://RUSI-NS.ca>. To have something tweeted or retweeted, email the CIO at RUSINovaScotia@gmail.com. Original article title in parentheses.

Cdre Steve Moorhouse @smrmoorhouse 8:12 AM - 12 Sep 2019 tweeted: Hello Halifax @HMSQNLZ making her first visit of #Westlant19 thank you @RoyalCanNavy for your support

RUSI(NS) retweeted: Welcome @HMSQNLZ to #Halifax, wonderful to see such great ship. RUSI(NS) comments on need for capable harbour force to service large ships of allies at https://www.facebook.com/permalink.php?story_fbid=2442701359151733&id=618819224873298 @RoyalCanNav



JTFA | FOIA @JTFA_FOIA Sep 12 tweeted: Members of 4th Artillery Regiment (GS) and 36 Canadian Brigade Group are assisting @nspowerinc & @nsemo in Sydney, Nova Scotia in removing hazards caused by #HurricaneDorian to help restore power to residents during @CFOperations #OpLENTUS

RUSI(NS) retweeted: Operation LENTUS #OpLENTUS <https://www.canada.ca/en/department-national-defence/services/operations/military-operations/current-operations/operation-lentus.html>

RUSI(NS) Info Note "Canadian Armed Forces Domestic Operations" <https://rusi-ns.ca/domestic-operations/>



.@CoastGuardCAN to procure "23 mobile incident command posts with built-in incident communications capabilities" for marine pollution incident response
<https://www.canada.ca/en/public-services-procurement/news/2019/09/government-of-canada-strengthens-capacity-to-respond-to-marine-pollution.html> What comms is of interest. Hopefully interoperable w other gov't comms to facilitate multi-dept ops
(Government of Canada strengthens capacity to respond to marine pollution)



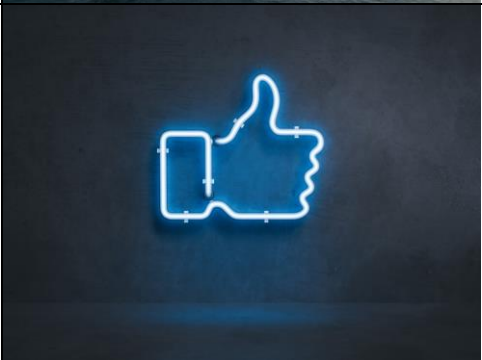
Royal Canadian Navy @RoyalCanNavy 14 Sep tweeted: HMCS Moncton is painted in a WWII Admiralty paint scheme to commemorate the 75th anniversary of the end of the #BattleoftheAtlantic. Honouring the sailors of our past, embracing the sailors of our present, looking ahead to our bright future. #RCNRemembers
RUSI(NS) retweeted: There is a display about dazzle/disruptive paint scheme at Naval Museum of #Halifax, @CanadianForces Base Halifax. Frigate HMCS REGINA will also be painted this scheme



"Why the U.K.'s brutal Brexit mess could pose an existential threat to Canada's shipbuilding plan"
<https://www.theglobeandmail.com/opinion/article-why-the-uks-brutal-brexit-mess-could-pose-an-existential-threat-to/> National #Shipbuilding Strategy #NSS Canadian Surface Combatant #CSC



STRATCOMCOE @STRATCOMCOE 18 Sep tweeted and RUSI(NS) retweeted: "Facebook estimated that in the last quarter of 2018, more than 115 million Facebook accounts were fake." Want to learn more about the market for social media manipulation? Check out this blog post from COE expert Sebastian Bay @ThinkDemocracy
(The Invisible Thumb: Studying the Market for Social Media Manipulation
<https://www.power3point0.org/2019/07/18/the-invisible-thumb-studying-the-market-for-social-media-manipulation/>)



Engaging brief by Maj Erik Weigelin #RCAF to RUSI(NS)&guests 18Sep19 about CH148 Cyclone helicopter's 1st operational deployment o/b #HMCSVilleDeQuebec #OpREASSURANCE. Engaging speaker. Very capable combat aircraft. Air-ship now a powerful anti-#submarine/multi-role team



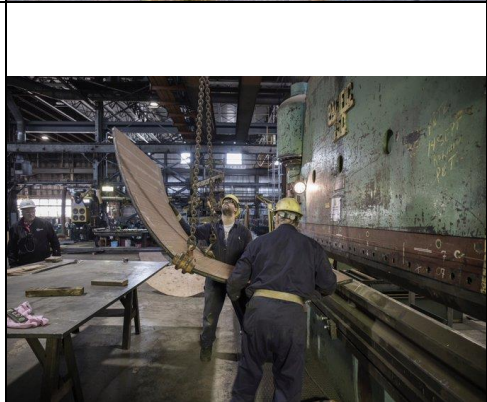
Canadian Global Affairs Institute @CAGlobalAffairs 19 Sep tweeted and RUSI(NS) retweeted: Whether developed during the Cold War, a conflict notorious for its deterrence and proxy wars, or modernized today, #deterrence is still a politically contentious issue. Check out our newest policy perspective exploring the costs of deterrence:
https://www.cgai.ca/rediscovering_the_cost_of_deterrence



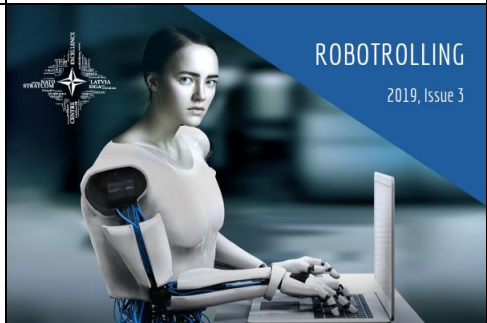
5thCanadianDivision @5CdnDiv 19 Sep tweeted and RUSI(NS) retweeted: @CanadianArmy #5DivSoldiers 4th Regt (GS) took part in #ExCUTLASSFURY alongside @RoyalCanNavy, @RCAF_ARC & @NATO. They worked with the medium range radar, a transportable but powerful system that quickly detects and locates sources of indirect fire and airborne threats.



Davie Shipbuilding @chantierdavie 19 Sep tweeted: We are building a reinforced bow section for the Medium Icebreakers. That means manipulating a 2 inch thick piece of steel. That thickness cannot be bent in the traditional way with rolls, so we use our master press which applies 750 tonnes of pressure to shape it where we want.
RUSI(NS) retweeted: Medium Icebreaker: large icebreaker (approx 100m in length) capable of sustained icebreaking & escort ops in #Arctic archipelago over 2 seasons/year, Great Lakes, River&Gulf of St Lawrence & Atlantic coast in winter. Can deliver variety CAN🇨🇦/#CCG programs & scientific missions
*Fast start what with government announcement Aug 2019!
Must have had design in hand.*



STRATCOMCOE @STRATCOMCOE 19 Sep tweeted and RUSI(NS) retweeted: "Since 2017 bot activity has changed. Spam bots have given way to news bots—accounts promoting fringe or fake news outlets"
Find out more in our new case study: bit.ly/2O4N9xh
#robotrolling #disinformation
(Robotrolling 3/2019
<https://www.stratcomcoe.org/robotrolling-20193>)



Posted on Facebook Royal United Services Institute NS with comments:

UK Army sticks to armor-upgrade plan despite new pivot toward hybrid warfare
<https://www.defensenews.com/digital-show-dailies/dsei/2019/09/08/uk-army-sticks-to-armor-upgrade-plan-despite-new-pivot-toward-hybrid-warfare/>



Editor: This article was posted to RUSI(NS) Facebook last week and in Dispatches 13 September. The following remarks to the article are from a RUSI(NS) colleague who began his army career in the Royal Canadian Armoured Corps, attended the British Army Staff College (formerly at Camberley) and then transferred to the Royal Armoured Corps, retiring as a Lieutenant-Colonel.

Even though we were deploying “heavy metal” in Gulf 1 and Iraq, the last defense review concluded that there were greater threats (e.g., cyber) and in an Army where maroon, sand coloured and, grudgingly, green (Royal Marine) berets were in the ascendency, and money was tight, there were not many adherents supporting tanks. The improvements to Challenger II have been mooted for at least a decade but have been repeatedly overtaken by events including the last defence review where it was fiscally driven. It is good to see that upgrades are still being discussed. There were many wrong assumptions in the last defence review; one of them was that Russia was no longer a threat. The launching of the new Russian tank startled people. Not sending tanks to Afghanistan was driven by only having one deployable power-pack rebuild capability (in Iraq) and we didn’t want to rent Antonovs to fly tanks in one at a time. As a result, although the Army liked having Canadian and US armour around, the operation was essentially light infantry focused. You always need a balance of capabilities in a dangerous world so this article is good reading.

It is strange to watch the Army relearn the tactics we lived with for decades because they have been living a life of deploying to forward operating bases (FOB), patrolling until contact is made, going to ground, calling in artillery, attack helos and fighter-ground attack aircraft to smack the enemy. Then, they withdraw back to the FOB to do it all again tomorrow. Manoeuvre to flank and attack the enemy was almost nonexistent. The concept of a mechanised battle group manoeuvring and advancing is alien to a lot of officers. Gulf 1 was 28 years ago, the last time when battle groups performed as coherent entities.

Another comment: Some important points in the comments above: "Not sending tanks to Afghanistan was driven by only having one deployable power-pack rebuild capability (in Iraq) and we didn’t want to rent Antonovs to fly tanks in one at a time." Military capability, national options, and the ability to deploy forces forward (really, anywhere) are a matter of logistics!

Cdre Steve Moorhouse @smrmoorhouse 8:12 AM - 12 Sep 2019
tweeted: Hello Halifax @HMSQNLZ making her first visit of #Westlant19 thank you @RoyalCanNavy for your support (<https://twitter.com/smrmoorhouse/status/1172166058452692992>)



Looking at the picture that accompanied this tweet, something that struck me is the need for the Royal Canadian Navy's (RCN) Maritime Forces Atlantic to have, or have access to, tugs large enough not only to handle our ships (which relatively are small) but large ships of navies of our allies. That's a civilian tug in the picture, alongside the Royal Navy's aircraft carrier Her Majesty's Ship QUEEN ELIZABETH. The current tugs of the RCN's Queen's Harbour Master (QHM) Halifax are probably underpowered to service the carrier. As they are to the service the RCN's new replenishment oilers when those oilers are built by the Joint Support Ship project.

New tugs are being procured for the RCN (see: “Government of Canada awards contract for acquisition of four naval large tugs” <https://www.canada.ca/en/public-services-procurement/news/2019/04/government-of-canada-awards-contract-for-acquisition-of-four-naval-large-tugs.html>). Assuredly they are strong enough for routine RCN needs. Whether they can service large ships of allies is not public.

And then there are specialized tug requirements. It's actually the smaller QHM tugs (the 'pup' tugs) that service submarines.

All to say that the tugs and other auxiliaries of the QHM on east and west coasts are important parts of having a capable navy. The frigates, oilers and other larger RCN ships may get the media and public attention, but the harbour fleets need government and public understanding and attention, too.

Should we be afraid? Military stand-off with China escalates as Australia plans a new military base in Papua New Guinea to ward off Beijing's designs on the South Pacific

<https://www.dailymail.co.uk/news/article-6187061/Australian-plans-new-military-base-Manus-Island-Papua-New-Guinea-set-anger-China.html>



The Aussies have figured it out, now playing a geo-strategic 'Settlers of Catan' (or, if you prefer, Go) and building forward bases in the Pacific. The US was doing that earlier. Of course, the US realized the utility, the necessity, of the approach a long time ago, when they gamed wars in the Pacific at their Naval College during the 1920-30s. In the absence of such bases (and a lesson Canada needs heed), and even with, a state needs suitable auxiliaries (think MV ASTERIX and future HMC Ships PROTECTEUR and PRESERVER), up to a 'fleet train,' to support its naval forces operating forward.

One of major Canadian weaknesses in its naval capability and strategy. A single ship or two operating in distant waters without afloat support is at considerable operational and technical risk.

The photo is of one of the 'islands' (towers in which the ship or aircraft are controlled) of the Royal Navy's aircraft carrier Her Majesty's Ship QUEEN ELIZABETH. Two navy details:



1. The name board. Silver on teak. Just the name, not the national identifier (Her Majesty's Ship - HMS). The warship was named at a naming ceremony followed later by a commissioning ceremony when she was placed in 'commissioned service.' At the commissioning ceremony the ship assumes the identifier as a prefix to her name (HMS QUEEN ELIZABETH). However, it is not necessary always to write the identifier with the name; usually it is only done the first time the name is written. Royal Canadian Navy (RCN) nameboards are similar to those of the Royal Navy. In the RCN, nameboards are considered part of 'the soul of a ship' along with the ship's bell, her honours board and the builder's plaque. All four items are retained by the navy, usually at a museum, when a ship is taken out of commissioned service.

2. The pennant number (R08). In the United Kingdom and certain other European and Commonwealth countries, pennant numbers (visual identifiers or callsigns) are allocated according to an agreed list. The

letter indicates the type of ship. Generally R identifies an aircraft carrier. The number is specific to the ship: 08 is QUEEN ELIZABETH. Canada does not conform to the list but has its own system where the hundred-series of the number indicates the ship type. For example, HARRY DEWOLF, building in Halifax as part of the Arctic and Offshore Patrol Ship project, has the pennant number 430 painted on her hull. The 400-series number indicates she is an ocean-going patrol vessel.

Photo credit: Alexander Quon, Global News

British Royal Navy conduct trials with PAC24 autonomous boat

<https://www.naval-technology.com/news/uk-royal-navy-conduct-trials-with-pac24-autonomous-boat/>



Cool, "an Unmanned Surface Vessel (USV) that can fully integrate with the combat systems of a Royal Navy warship." And a Type 26 at that. The Type 26 is the basis for the Canadian Surface Combatant (CSC) design. It would be great to see USV in the boat bay of CSC frigates, with the drones fully integrated into the CSC combat management system so that employing a USV would not be not much different than, say, launching a missile or having ship sensors offboard and some distance from the ship.

Also: "BAE to integrate robotic boat with Royal Navy warship"

<https://newatlas.com/military/bae-systems-robotic-boat-royal-navy-warship-integration/>

COMMENTARY: Alternative Saab fighter could save navy by dodging extravagant F-35s

<https://www.thechronicleherald.ca/opinion/national-perspectives/commentary-alternative-saab-fighter-could-save-navy-by-dodging-extravagant-f-35s-352103/>



Unfortunately, pure cost cannot be the only factor. Yes, it would be built in Canada (Montreal?) but the range and payload would either require forward basing, more infrastructure to support the FOLs , additional tankers (is the Grippen E air refuelable?) -needs a lot more study.

U.S. Navy tests unmanned underwater vehicles in Arctic exercise

<https://www.upi.com/Defense-News/2019/09/13/US-Navy-tests-unmanned-underwater-vehicles-in-Arctic-exercise/9111568396144/>



One wonders to what extent Canadians are participating or observing this "Arctic Expeditionary Capabilities Exercise." Interesting title. "Expeditionary" implies the US going beyond Alaska. Where to?

Canada has operated underwater drones in the Arctic for decades. See the presentation "Defence Research & Development – Canada's work in the Arctic" at <https://rusi-ns.ca/wp-content/uploads/2019/06/DefenceRDArctic.pdf>.

Russian Navy commandos boarded a cargo vessel on Northern Sea Route

<https://www.arctictoday.com/russian-navy-commandos-boarded-a-cargo-vessel-on-northern-sea-route/>



"A bill signed in 2016 gives the FSB (Federal Security Service of the Russian Federation) the full prerogatives for law enforcement in the area." Hmm, using the secret police for what some states would think of as a coast guard function. Bit concerning?

I wonder whether the Canadian military has the capability to conduct a boarding (unopposed or opposed) of a commercial vessel in the North West Passage. On the other hand, would they need to have such a capability? One would hope our Coast Guard and RCMP have more than enough capability to do so.

The Tikka T3x Arctic: The Ultimate 'Old School' Outdoorsman Rifle?

<https://nationalinterest.org/blog/buzz/tikka-t3x-arctic-ultimate-old-school-outdoorsman-rifle-80551>



"Altogether, the C19 (Ranger rifle) represents perhaps the best iron-sighted outdoors rifle there is today. It has smart design features for operation in adverse conditions and accuracy borne out of a long tradition of design. By most accounts, Canadian Rangers are satisfied with their new rifle."

The previous Ranger rifle, the Lee Enfield, was right handed only. Even left handed hunting rifles are incredibly rare.

Type 31e order must be followed up by further commitments say Union

<https://ukdefencejournal.org.uk/type-31e-order-must-be-followed-up-by-further-commitments-say-union/>



National Shipbuilding Strategy continuous shipbuilding program, UK style. Compared to the position of Canadian unions with the Canadian NSS?

DSEI: U.K. Crafting New Command and Control Regime as Royal Navy Grows

<https://news.usni.org/2019/09/13/dsei-u-k-crafting-new-command-and-control-regime-as-royal-navy-grows>



"...large embarked headquarters will become a thing of the past. Instead, command and control will be performed by smaller platforms using virtual networks, hardened against cyber-attack and able to function without satellite data links."

"The traditional role of commodore or admiral as the ultimate decision-maker must give way to an approach that is more to do with enabling and catalyzing."

"...fixed headquarters would be replaced by virtual networks."

"...reduction in the size of our deployed headquarters and drive a revision of the methods that currently underpin mission command."

An evolution of mission command?

Iranian legislator urges military to seize Canadian ships

<https://globalnews.ca/news/5907562/iran-legislator-urges-military-seize-canadian-ships/>



Are we seeing here an economic/financial war?

Hmm, will the Royal Canadian Navy Maritime Operations Tactical Group, currently with a role of conducting boarding operations, have to expand to include defence of Canadian ships against boarding?

And also, how many Canadian (flagged? owned?) ships transit near Iranian waters?

What's the end state of this?...

One should be more concerned about hard assets of Canadians located in Iran or Canadian aircraft travelling through Iranian airspace being forced down.

This is the name of the Air Force's new training jet

<https://www.defensenews.com/digital-show-dailies/afa-air-space/2019/09/16/this-is-the-name-of-the-air-forces-new-training-jet/>



There has long been a political aspect to ship naming. Now a (social-)political aspect to naming an aircraft. Still, a good name and due tribute.

Here in Canada we are awaiting the naming of the Royal Canadian Air Force CC295 search and rescue aircraft. Likely to be a nod to history. But, one never knows...

The US Air Force's radical plan for a future fighter could field a jet in 5 years

<https://www.defensenews.com/digital-show-dailies/2019/09/16/the-us-air-forces-radical-plan-for-a-future-fighter-could-field-a-jet-in-5-years/>



Hmm, what might this do to Canada's procurement process and especially that for the Royal Canadian Air Forces' Future Fighter project? The US to "...design, develop and produce a new fighter in five years or less." Unless Canada gets onboard that five year cycle or finds some way to accommodate it, we could find ourselves multiple 'generations' behind when we acquire the Future Fighter, and further behind shortly thereafter.

Better Than Nothing? The Royal Navy Will Buy Two Littoral Strike Ships

<https://finance.yahoo.com/news/better-nothing-royal-navy-buy-220000850.html>



"... the littoral strike ships in fact just merchant vessels featuring several key modifications allowing them to support landing craft and vertical-launching aircraft."

"These globally deployable, multi-role vessels would be able to conduct a wide range of operations, from crisis-support to war-fighting."

Hmm, maybe Canada would benefit from acquiring such a multi-role ship. Hold on, that's not a new idea. See "Why Canada Needs a Humanitarian Assistance and Disaster Relief Ship"

(<http://www.navalreview.ca/wp-content/uploads/public/vol13num1/vol13num1art1.pdf>). Irving Shipbuilding would probably be happy to build a Maritime Support Ship. Such a contract, even beyond

contracts for Arctic and Offshore Patrol Ship numbers 7 and 8 recently awarded to the company, would really ensure that Irving workers are kept busy and retained. Having such a ship would also give the Canadian government more options in crises.

Comment from Face Book: Can we get some warships first please. Those keep the enemy up at night.

Hyroid gets \$52M US Navy contract for MK 18 UUV program

<https://navaltoday.com/2019/09/17/hyroid-gets-52m-us-navy-contract-for-mk-18-uuv-program/>



Cool, air launchable. Or from a RHIB (rigid hull inflatable boat). Does this mean more and more ships and other platforms are becoming mine counter-measures vessels? That could be very useful.

Is Canada looking at this capability?

Arleigh Burke Destroyers Are Most Viable Option for Near-Term Navy Presence in Arctic

<https://news.usni.org/2019/09/18/arleigh-burke-destroyers-are-most-viable-option-for-near-term-navy-presence-in-arctic>



"The Navy needs more surface ships that are capable of operating in what's considered diminished ice seas, which don't require icebreaking but do require strengthened hulls with gear outfitted for extreme cold."

Hmm, maybe Canada could sell the US something...



This Week

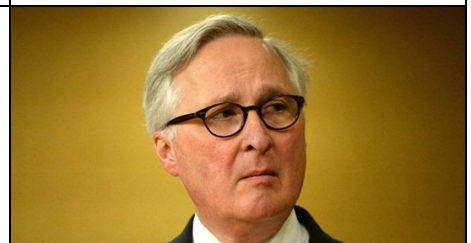
<https://mailchi.mp/rusi.org/thisweek-13september-166697?e=a539211a30>



RUSI
www.rusi.org

Former CSIS director Richard Fadden urges Canadians to be wary of spreading misinformation online

<https://www.theglobeandmail.com/politics/article-former-csis-director-richard-fadden-urges-canadians-to-be-wary-of/#comments>



US Might Still Sanction Turkey For Buying S-400 From Russia

https://www.defenseone.com/politics/2019/09/us-might-still-sanction-turkey-buying-s-400-russia/159829/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.13.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



EU defense ambitions may come up short, audit warns

https://www.defensenews.com/global/europe/2019/09/12/eu-defense-ambitions-may-come-up-short-audit-warns/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.13.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



New sanctions could extend to allies of Hezbollah in Lebanon: U.S. envoy

https://www.reuters.com/article/us-lebanon-economy-sanctions/new-sanctions-could-extend-to-allies-of-hezbollah-in-lebanon-u-s-envoy-idUSKCN1VX2E1?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.13.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Taiwan Wants Updated Submarine Force

https://news.usni.org/2019/09/12/taiwan-wants-updated-submarine-force?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.13.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Five Eyes allies raising questions as damage control continues in Cameron Ortis case: sources

<https://www.cbc.ca/news/somnia-1.5284035>



Northrop denies Boeing's request to join ICBM replacement team

https://www.defensenews.com/smr/nuclear-arsenal/2019/09/13/northrop-says-no-to-boeing-joining-icbm-replacement-program/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.16.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Turkey says delivery of second S-400 battery complete

https://www.reuters.com/article/us-turkey-security-usa-defense-russia/turkey-says-delivery-of-second-s-400-battery-complete-idUSKBN1W00AQ?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.16.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Russia's first sea-borne nuclear power plant arrives to its base

https://www.reuters.com/article/us-russia-nuclear-floating/russias-first-sea-borne-nuclear-power-plant-arrives-to-its-base-idUSKBN1VZ0CY?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB%2009.16.19&utm_term=Editorial%20-%20Early%20Bird%20Brief



Beijing's South China Sea Aggression Is a Warning to Taiwan

https://foreignpolicy.com/2019/09/16/beijings-south-china-sea-aggression-is-a-warning-to-taiwan/?utm_source=PostUp&utm_medium=email&utm_campaign=14981&utm_term=Editor#39;s%20Picks%20OC



Federal parties being warned of efforts by 6 foreign countries to influence election: sources






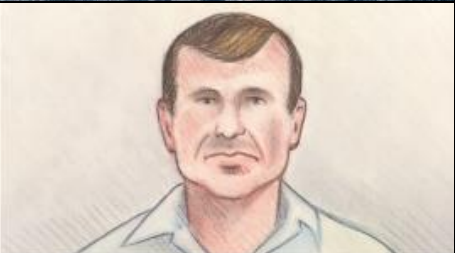
<https://www.cbc.ca/news/somnium-1.5284473>



Extra-Long Sustainment Contracts Are Lockheed's Latest Bid to Cut F-35 Costs

https://www.defenseone.com/business/2019/09/sustainment-contracts-lockheed-f-35-costs/159919/?oref=defense_one_breaking_nl



<p>Hypersonic weapons could give the B-1 bomber a new lease on life</p> <p>https://www.defensenews.com/digital-show-dailies/air-force-association/2019/09/17/global-strike-head-makes-case-of-b-1-survival/?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB:%20Trump:%20It%20looks%20like%20Iran%20hit%20Saudis%2C%20no%20military%20option%20yet&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	
<p>This Formula Predicts Soldier Firepower in 2050</p> <p>https://www.defenseone.com/technology/2019/09/formula-predicts-soldier-firepower-2050/159931/?oref=defense_one_breaking_nl</p>	
<p>Why the U.K.'s brutal Brexit mess could pose an existential threat to Canada's shipbuilding plan</p> <p>https://www.theglobeandmail.com/opinion/article-why-the-uks-brutal-brexit-mess-could-pose-an-existential-threat-to/</p>	
<p>Canada-UK relationship on display as new British aircraft carrier arrives in Halifax</p> <p>https://www.msn.com/en-ca/news/canada/canada-uk-relationship-on-display-as-new-british-aircraft-carrier-arrives-in-halifax/ar-AAHdfUJ?ocid=se</p>	
<p>Rediscovering the Cost of Deterrence</p> <p>https://www.cgai.ca/rediscovering_the_cost_of_deterrence?utm_campaign=p_costofdeterrence&utm_medium=email&utm_source=cdfai</p>	
<p>Arrested Canadian police official had access to foreign intelligence</p> <p>https://www.afp.com/en/news/3954/arrested-canadian-police-official-had-access-foreign-intelligence-doc-1kc0pw4</p>	

Uniform, camouflage and equipment modernization process marches on

<https://ml-fd.caf-fac.ca/en/2019/09/33647>



Russia and China Are Trying to Set the U.N.'s Rules on Cybercrime

https://foreignpolicy.com/2019/09/16/russia-and-china-are-trying-to-set-the-u-n-s-rules-on-cybercrime/?utm_source=PostUp&utm_medium=email&utm_campaign=15076&utm_term=Flashpoints%20OC



Russia's Future Is Still in the Hands of Putin's Cronies

https://foreignpolicy.com/2019/09/16/russias-future-is-still-in-the-hands-of-putins-cronies/?utm_source=PostUp&utm_medium=email&utm_campaign=15076&utm_term=Flashpoints%20OC



Gen. Vance says he's ready to keep serving as Chief of the Defence Staff

<https://ottawacitizen.com/news/national/defence-watch/gen-vance-says-hes-ready-to-keep-serving-as-chief-of-the-defence-staff>



USAF: Our New Tanker Should Be Ready for War in 3 or 4 Years





https://www.defenseone.com/business/2019/09/usaf-our-new-tanker-should-be-ready-war-3-or-4-years/159984/?oref=defense_one_breaking_nl



How Do States Use Cyber Operations to Coerce Others?

https://www.rand.org/pubs/research_reports/RR2961.html?utm_source=WhatCountsEmail&utm_medium=RAND%20Policy%20Currents+AEM:%20%20Email%20Address%20NOT%20LIKE%20DOTMIL&utm_campaign=AEM:631600804



<p>It's a Journey, Not a Destination: Seven Lessons for Military Planners</p> <p>https://mwi.usma.edu/journey-not-destination-seven-lessons-military-planners/</p>	
<p>U.S. unlikely to impose sanctions on Turkey over Russian buy: Turkish official</p> <p>https://www.reuters.com/article/us-turkey-security-trump/u-s-unlikely-to-impose-sanctions-on-turkey-over-russian-buy-turkish-official-idUSKBN1W335X?utm_source=Sailthru&utm_medium=email&utm_campaign=EBB:%20Trump:%20There%20are%20many%20options%20short%20of%20war%20with%20Iran&utm_term=Editorial%20-%20Early%20Bird%20Brief</p>	 <p>REUTERS</p>
<p>Angry public reactions after Veterans Affairs video mixes up Canadian and German soldiers — soldiers who were actually Wehrmacht</p> <p>https://ottawacitizen.com/news/local-news/angry-public-reactions-after-video-mixes-up-canadian-and-german-soldiers-soldiers-who-were-actually-wehrmacht</p>	<p>#CanadaRemembers veterans.gc.ca</p> 
<p>Canada pledges to boost military in Arctic</p> <p>https://news.yahoo.com/canada-pledges-boost-military-arctic-230503771.html</p>	

Posted on Facebook Royal United Services Institute NS: RUSI(NS) postings may be viewed by clicking on the icon at <https://RUSI-NS.ca>. To have something posted or commented, email the CIO by noon Thursday.

Other Sources: Recommendations for ‘themes’ (e.g., #drones) to list in this section are welcome.

#artificial intelligence

When Asimov's Robots Encounter the Laws of War

<http://thesimonscenter.org/featured-article-asimovs-robots-encounter-the-laws-of-war/>

"The ethical implications of decisions and actions taken by autonomous AI and transhuman military actors, and their potential influence on military decision making, is the focus of this paper."

#drones

Russian Autonomous Underwater vehicle Garmoniya-GUIDE

www.hisutton.com/Ru_Garmoniya-GID_AUV.html

A "large displacement UUV" (LDUUV) capable of long endurance cruising.

#election 2019

Parliamentary Budget Officer Guidelines for Cost Estimates of Election Campaign Proposals

https://www.pbo-dpb.gc.ca/web/default/files/Documents/General/Guidelines%20on%20Cost%20Estimates%20for%20Electoral%20Platform%202018-01-24_EN.pdf

"In June 2017, Parliament conferred a new mandate on the Parliamentary Budget Officer (PBO) to estimate the financial cost of election campaign proposals made by political parties."

Specific promises, not overall platforms. As there don't seem to be many (any?) Defence proposals yet...

Elections Canada confident in security measures ahead of federal election

<https://ipolitics.ca/2019/09/17/elections-canada-confident-in-security-measures-ahead-of-federal-election/>

"Canadians are aware of what's going on around the world and they're learning to check their sources in terms of the information."

#information operations

Scorching the Earth with Disinformation

<https://euvsdisinfo.eu/scorching-the-earth-with-disinformation/>

Note use of the term 'scorched-earth tactics.'

#North Korea

UN Report on DPRK Violations of Sanctions

https://milnewsca.files.wordpress.com/2019/09/s_2019_691_e-ship-to-ship-excerpt.pdf

and news article: North Korea breaching shipping, trade, and financial sanctions: UN report

<https://www.nknews.org/2019/09/north-korea-breaching-shipping-trade-and-financial-sanctions-poe-report/>

Op NEON is Canada's maritime contribution to enforcing the sanctions.

#Second World War

Project '44 The Road to Liberation

<https://www.project44.ca/>

"An online web map (beta) that will let the viewer explore the battles of the Second World War. Digitally preserved maps, aerial imagery and war diaries are being used to map out the allied advance from the beaches of Normandy to beyond the Nederrijn River."

#weapons development

Early Sustainment Planning for the United States Air Force: Proceedings of a Workshop—in Brief

<https://www.nap.edu/read/25393/chapter/1>

Weapon system sustainment planning.

Other:

Exercise CUTLASS FURY task force photos

Just the photo-op (brownie run), not a tactical formation!



Toys

Dive another day:
Royal Navy tests 'Bond Boat' that works on and under the water

<https://sputniknews.com/military/201909151076805878-dive-another-day-uk-royal-navy-tests-bond-boat-that-works-on-and-under-the-water/>

Oohh, can I have one?!

LIVE AND LET DIVE

The Royal Navy's new 'James Bond' style submarine

SPECIFICATIONS

Length	39ft	Displacement	9tons
Beam	7ft 5in	Fuel	198gal
Draught	2ft	Speed	40kts
Height	6ft 5in	Range	250nm
Crew(pilot and navigator)	2	Dive Depth	98ft
Commandos	6	Underwater top speed	8kts



THROUGH "A MORE NORTHERLY ROUTE"

***ST ROCH* AND THE NORTHWEST PASSAGE TRANSIT OF 1944**

25 September - 22 November 2019

Naval Museum of Halifax

A NEW EXHIBIT BY FACULTY AND STUDENTS AT
ST FRANCIS XAVIER UNIVERSITY

Information Operations

The following is a Facebook article that started circulating last week (<https://www.facebook.com/BritComMil/posts/2552923538079153>).



British and Commonwealth Military
13 hrs · 🌐

Canada 🇨🇦

Little known fact; Canada actually operated MiG-21F jets but for a short period of time.

The first MiG-21 arrived in Canada on the 23rd of June, 1960.

These Fishbeds were designated "CF-121 Redhawk" by Royal Canadian Air Force.

This was highly controversial because it strained US- Canada relations, since they had bought Russian made aircraft, and Americans feared Canada was becoming an Eastern puppet, which is likely one of the reasons why the MiGs were quickly removed from service.



It is actually an April Fool posting from 2011. But it is demonstrative of what is out there in the social media domain and the skepticism that needs accompany any reading [see the RUSI(NS) Information Note "A System to Judge Information Reliability" <https://rusi-ns.ca/a-system-to-judge-information-reliability/>]. For the full MiG story, see: "The Breaking Point - Canadian MiGs test American friendship" <http://www.vintagewings.ca/VintageNews/Stories/tabid/116/articleType/ArticleView/articleId/285/The-Breaking-Point--Canadian-MiGs-test-American-friendship--2011-APRIL-FOOLS-HOAX.aspx>.