

Black Tops

A compendium of recently published US Army related EW & CEMA articles

By Tom Zalewski

The following is a list of articles related to EW & CEMA that were recently published in a variety of publications or websites. These are offered in the general interest of the members of the APG Susquehanna Chapter of the AOC.

A special thanks to Leonardo DRS for their support of the assembly of these Black Tops!

TOP NEWS!

Changes on the horizon for defense contractors dtd: 01 December 2020; by: Tom Temin; published on: Federal News Network on-line <https://federalnewsnetwork.com/contracting/2020/12/changes-on-the-horizon-for-defense-contractors/>

Winning the Invisible War – Gaining an Enduring U.S. Advantage in the Electromagnetic Spectrum dtd: 01 December 2020; by: Admin; published on: BreakingDefense on-line <https://defaeroreport.com/2020/12/01/defaero-report-daily-podcast-dec-01-2020-bryan-clark-on-ems-competition-net-assessment/>

Electromagnetic spectrum management tool coming next year dtd: 03 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/electronic-warfare/2020/12/03/electromagnetic-spectrum-management-tool-coming-next-year/>

Congress requires shake-up in electromagnetic spectrum operations dtd: 03 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/electronic-warfare/2020/12/03/congress-requires-shake-up-in-electromagnetic-spectrum-operations/>

Defense policy bill would create new cyber czar position dtd: 03 December 2020; by: Maggie Miller; published on: TheHill on-line <https://thehill.com/policy/defense/528651-defense-policy-bill-would-create-new-cyber-czar-position>

Opinion: China Is National Security Threat No. 1 dtd: 03 December 2020; by: John Ratcliffe; published on: WallStreetJournal on-line <https://www.wsj.com/articles/china-is-national-security-threat-no-1-11607019599>

Congress could slow funding for cyber battlefield tool dtd: 04 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/04/congress-cuts-funds-for-cyber-battlefield-tool/>

NDAA: Conference Cuts New Army Tech, Pluses Up Old dtd: 04 December 2020; by: Sydney J. Freedberg; published: BreakingDefense online <https://breakingdefense.com/2020/12/nda-conference-cuts-new-army-tech-pluses-up-old/>

GSA's Central Procurement Hub Will Lose the 'Beta' in April dtd: 07 December 2020; by: Aaron Boyd; published on: Nextgov on-line <https://www.nextgov.com/cio-briefing/2020/12/gsas-central-procurement-hub-will-lose-beta-april/170541/>

Microsoft Unveils Top Secret Cloud for Government dtd: 07 December 2020; by: Brandi Vincent; published on: Nextgov on-line <https://www.nextgov.com/it-modernization/2020/12/microsoft-unveils-top-secret-cloud-government/170526/>

Astronomy: 'Odd radio circles' in the sky a 'genuine mystery' dtd: 08 December 2020; by: Isabelle Rodd; published on: BBC News on-line <https://www.bbc.com/news/av/55212727>

How a Roman-era Rapunzel became the patron saint of artillery dtd: 09 December 2020; by: Todd South; published on: MarineTimes on-line <https://www.marinecorpstimes.com/news/your-marine-corps/2020/12/09/how-a-roman-era-rapunzel-became-the-patron-saint-of-artillery/>

Electromagnetic spectrum superiority at risk for DoD, watchdog says dtd: 10 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/electronic-warfare/2020/12/10/electromagnetic-spectrum-superiority-at-risk-for-dod-watchdog-says/>

The Pentagon Is Ill-Organized to Improve Its Use of Electromagnetic Spectrum, GAO Says dtd: 11 December 2020; by: Patrick Tucker; published on: DefenseOne on-line <https://www.defenseone.com/technology/2020/12/pentagon-ill-organized-improve-its-use-electromagnetic-spectrum-gao-says/170718/>

China and Russia plan to 'deepen' cooperation against US dtd: 11 December 2020; by: Joel Gehrke; published on: WashingtonExaminer on-line <https://www.washingtonexaminer.com/policy/defense-national-security/china-and-russia-plan-to-deepen-cooperation-against-us>

Russian government spies are behind hacking of U.S. agencies, top cyber firm dtd: 13 December 2020; by: Ellen Nakashima and Craig Timberg; published on: The Washington Post on-line https://www.washingtonpost.com/national-security/russian-government-spies-are-behind-a-broad-hacking-campaign-that-has-breached-us-agencies-and-a-top-cyber-firm/2020/12/13/d5a53b88-3d7d-11eb-9453-fc36ba051781_story.html

CISA Orders Federal Agencies to Turn Off SolarWinds Products dtd: 14 December 2020; by: Aaron Boyd; published on: Nextgov on-line <https://www.nextgov.com/cybersecurity/2020/12/cisa-orders-federal-agencies-turn-solarwinds-products/170737/>

Reported Russian hack of US systems has implications for DoD network security plans dtd: 14 December 2020; by: Andrew Eversden and Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/14/reported-russian-hack-of-us-systems-has-implications-for-dod-network-security-plans/>

Our Bases In US Will Be Attacked: Army dtd: 14 December 2020; by: Sydney J. Freedberg Jr.; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/our-bases-in-us-will-be-attacked-army/>

'It's going to take a lot of digging': The Pentagon's long search to see if anyone's hiding in its networks dtd: 17 December 2020; by: Andrew Eversden and Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/17/its-going-to-take-a-lot-of-digging-the-pentagons-long-search-to-see-if-anyones-hiding-in-its-networks/>

The military is scrambling to understand the aviation crash risk from a new 5G sale dtd: 21 December 2020; by: Valerie Insinna and Aaron Mehta; published on: DefenseNews on-line <https://www.defensenews.com/2020/12/21/the-military-is-scrambling-to-understand-the-aviation-crash-risk-from-a-new-5g-sale/>

Congress allots about half the money requested for Army command post modernization program dtd: 23 December 2020; by: Andrew Eversden and Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/23/congress-allots-about-half-the-money-requested-for-army-command-post-modernization-program/>

US Army looks to millimeter waveforms to strengthen communications dtd: 30 December 2020; by: Andrew Eversden and Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/30/us-army-looks-to-millimeter-waveforms-to-strengthen-communications/>

Army Research Lab Announces Acquisition of Two New Supercomputers dtd: 30 December 2020; by: Brandi Vincent; published on: Nextgov on-line <https://www.nextgov.com/emerging-tech/2020/12/army-research-lab-announces-acquisition-two-new-supercomputers/171094/>

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APG AOC Individual Award Nomination Do you know a professional, who lives, works or supports the APG Community and is involved with EW, Cyber, SIGINT or Electromagnetic Activities? Now is your chance to nominate them for the outstanding work they are doing to support this community. The AOC Susquehanna Chapter would like to highlight the great work they are doing and nominate them for an *AOC APG Community Award*. Please

go to the website <https://aoc-app.org/contact/> and enter your name, email address and a paragraph explain why this person should be nominated. All nominations will close December 31st and winner will be announced the beginning of 2021.

COVID-19 related

Army general says COVID-19 vaccines will begin arriving across the country as early as Monday dtd: 12 December 2020; by: Harm Venhuizen; published on: MilitaryTimes on-line <https://www.militarytimes.com/news/your-army/2020/12/12/army-general-says-covid-19-vaccines-will-begin-arriving-across-the-country-as-early-as-monday/>

New Army museum to close Monday amid surging coronavirus pandemic dtd: 10 December 2020; by: Corey Dickstein; published on: Stars&Stripes on-line <https://www.stripes.com/news/us/new-army-museum-to-close-monday-amid-surging-coronavirus-pandemic-1.655047>

Critical Update: Did COVID-19 Push More Agencies Into the Cloud? dtd: 15 December 2020; by: Aaron Boyd; published on: Nextgov on-line <https://www.nextgov.com/podcasts/2020/12/critical-update-did-covid-19-push-more-agencies-cloud/170761/>

Why Being Stuck at Home—and Unable to Hang Out in Cafes and Bars—Drains Our Creativity dtd: 16 December 2020; by: Korydon Smith, Kelly Hayes McAlonie and Rebecca Rotundo; published on: The Conversation on-line <https://theconversation.com/why-being-stuck-at-home-and-unable-to-hang-out-in-cafes-and-bars-drains-our-creativity-150929>

Army issues face mask and the official name is so long it requires an acronym, because of course dtd: 16 December 2020; by: Sarah Sicard; published on: ArmyTimes on-line <https://www.armytimes.com/news/your-army/2020/12/16/army-issues-face-mask-and-the-official-name-is-so-long-it-requires-an-acronym-because-of-course/>

CYBERSECURITY TIP SHEET: Teleworking dtd: 17 December 2020; by: Bill Roche; published on: Army.mil on-line https://www.army.mil/article/241866/cybersecurity_tip_sheet_teleworking

Congress seals agreement on \$900 billion COVID relief bill dtd: 21 December 2020; by: Andrew Taylor; published on: Associated Press on-line <https://apnews.com/article/joe-biden-bills-coronavirus-pandemic-economy-75389549d3eaf2f3828b16d45c9706e6>

Cormac the Llama Yields Antibodies That May Prove Effective Against COVID-19 dtd: 30 December 2020; by: Sarah Marshall; published on: Defense.gov on-line <https://www.defense.gov/Search-Results/Author/101653/sarah-marshall-uniformed-services-university/>

EW & CEMA Articles

1. **DOD Needs Simulations to Shorten Acquisition Timelines, Official Says** dtd: 30 November 2020; by: Mila Jasper; published on: Nextgov on-line <https://www.nextgov.com/emerging-tech/2020/11/dod-needs-simulations-shorten-acquisition-timelines-official-says/170369/>
2. **The US Army is adjusting its pre-positioned stock for more than just war** dtd: 30 November 2020; by: Jen Judson; published on: DefenseNews on-line <https://www.defensenews.com/land/2020/11/30/the-us-army-is-adjusting-its-pre-positioned-stock-for-more-than-just-war/>
3. **The Army Wants To Launch Drone Swarms Behind Enemy Lines From High-Altitude Balloons** dtd: 30 November 2020; by: Joseph Trevithick; published on: The Drive on-line <https://www.thedrive.com/the-war-zone/37868/the-army-wants-to-launch-drone-swarms-behind-enemy-lines-from-high-altitude-balloons>

4. **Soldiers Don't Trust Robot Battle Buddies. Can Virtual Training Fix That?** dtd: 30 November 2020; by: Patrick Tucker; published on: DefenseOne on-line <https://www.defenseone.com/technology/2020/11/soldiers-dont-trust-robot-battle-buddies-can-virtual-training-fix/170378/>
5. **DISA pinpoints three technology areas in revised strategic plan** dtd: 30 November 2020; by: Andrew Eversden; published on: C4ISRNet on-line <https://www.c4isrnet.com/show-reporter/disa-forecast-industry/2020/11/30/disa-pinpoints-three-technology-areas-in-revised-strategic-plan/>
6. **What DOD's Cyber Certification Program Reveals About Info-Sharing Challenges** dtd: 01 December 2020; by: Mariam Baksh; published on: Nextgov on-line <https://www.nextgov.com/cybersecurity/2020/12/what-dods-cyber-certification-program-reveals-about-info-sharing-challenges/170400/>
7. **We Need a Backup for GPS. Actually, We Need Several of Them** dtd: 01 December 2020; by: Mila Jasper; published on: DefenseOne on-line <https://www.defenseone.com/ideas/2020/12/we-need-backup-gps-actually-we-need-several-them/170391/>
8. **Most agencies still on their own to fill cyber talent gaps, solarium says** dtd: 01 December 2020; by: Nicole Ogrysko; published on: Federal News Network on-line <https://federalnewsnetwork.com/workforce/2020/12/most-agencies-still-on-their-own-to-fill-cyber-talent-gaps-solarium-says/>
9. **GSA helping agencies overcome 'mental barrier' fielding unattended bots** dtd: 01 December 2020; by: Jory Heckman; published on: Federal News Network on-line <https://federalnewsnetwork.com/artificial-intelligence/2020/12/gsa-helping-agencies-overcome-mental-barrier-fielding-unattended-bots/>
10. **DoD Official Warns China Pulling Ahead In Data, Simulation Efforts** dtd: 01 December 2020; by: Sydney J. Freedberg Jr.; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/dod-official-warns-china-pulling-ahead-in-data-simulation-efforts/>
11. **All Domain Requires New Requirements Process; DoD, Congress Must Compromise: Lt. Gen. Hinote** dtd: 01 December 2020; by: Theresa Hitchens; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/all-domain-requires-new-requirements-process-dod-congress-must-compromise-lt-gen-hinote/>
12. **'Start Of A New Day': DoD's New Cybersecurity Regs Take Effect Today** dtd: 01 December 2020; by: Barry Rosenberg; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/start-of-a-new-day-dods-new-cybersecurity-regs-take-effect-today/>
13. **Cross-agency plans for space cybersecurity will strengthen the US in all domains** dtd: 01 December 2020; by: Pete Dowdy; published on: C4ISRNet on-line <https://www.c4isrnet.com/opinion/2020/12/01/cross-agency-plans-for-space-cybersecurity-will-strengthen-the-us-in-all-domains/>
14. **COVID Jump Starts DoD's Move to Microsoft Office 365** dtd: 02 December 2020; by: Barry Rosenberg; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/covid-jump-starts-dods-move-to-microsoft-office-365/>
15. **New internet browsing tools bolster DoD cybersecurity** dtd: 02 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/02/new-internet-browsing-tools-bolster-dod-cybersecurity/>
16. **DISA Puts Trust in Zero Trust With New Strategy, Testing Lab** dtd: 02 December 2020; by: Kelsey Atherton; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/disa-puts-trust-in-zero-trust-with-new-strategy-lab/>
17. **How DISA helped the defense workforce stay productive during COVID-19** dtd: 02 December 2020; by: Andrew Eversden; published on: C4ISRNet on-line <https://www.c4isrnet.com/show-reporter/disa-forecast-industry/2020/12/02/how-disa-helped-the-defense-workforce-stay-productive-during-covid-19/>
18. **Defense policy bill would create new cyber czar position** dtd: 03 December 2020; by: Maggie Miller; published on: TheHill on-line <https://thehill.com/policy/defense/528651-defense-policy-bill-would-create-new-cyber-czar-position>
19. **DISA starts to monitor quantum-resistant encryption capabilities** dtd: 03 December 2020; by: Andrew Eversden; published on: C4ISRNet on-line <https://www.c4isrnet.com/show-reporter/disa-forecast-industry/2020/12/03/disa-starts-to-monitor-quantum-resistant-encryption-capabilities/>
20. **Final NDAA Calls for the Establishment of a National Cyber Director** dtd: 03 December 2020; by: Mariam Baksh; published on: Nextgov on-line <https://www.nextgov.com/cybersecurity/2020/12/final-ndaa-calls-establishment-national-cyber-director/170478/>
21. **The Pentagon plans to release details on an \$11B IT contract soon** dtd: 03 December 2020; by: Andrew Eversden; published on: C4ISRNet on-line <https://www.c4isrnet.com/show-reporter/disa-forecast-industry/2020/12/03/the-pentagon-plans-to-release-details-on-an-11b-it-contract-soon/>

22. **Fourth GPS III satellite receives operational acceptance in record time** dtd: 03 December 2020; by: Nathan Strout; published on: [C4ISRNet](https://www.c4isrnet.com/battlefield-tech/space/2020/12/03/fourth-gps-iii-satellite-receives-operational-acceptance-in-record-time/) on-line <https://www.c4isrnet.com/battlefield-tech/space/2020/12/03/fourth-gps-iii-satellite-receives-operational-acceptance-in-record-time/>
23. **The Next SIMNET? Unlocking the Future of Military Readiness Through Synthetic Environments** dtd: 03 December 2020; by: Jennifer McArdle and Caitlin Dohrman; published on: [WarOnTheRocks](https://warontherocks.com/2020/12/the-next-simnet-unlocking-the-future-of-military-readiness-through-synthetic-environments/) on-line <https://warontherocks.com/2020/12/the-next-simnet-unlocking-the-future-of-military-readiness-through-synthetic-environments/>
24. **New DOD Directive Will Improve Acquisition Reform, Officials Say** dtd: 04 December 2020; by: David Vergun; published on: [Defense.gov](https://www.defense.gov/Explore/News/Article/Article/2434691/new-dod-directive-will-improve-acquisition-reform-officials-say/source/GovDelivery/) on-line <https://www.defense.gov/Explore/News/Article/Article/2434691/new-dod-directive-will-improve-acquisition-reform-officials-say/source/GovDelivery/>
25. **2021 defense policy bill would expand leave benefits for feds** dtd: 04 December 2020; by: Jessie Bur; published on: [Federal Times](https://www.federaltimes.com/federal-oversight/congress/2020/12/04/2021-defense-policy-bill-would-expand-leave-benefits-for-feds/) on-line <https://www.federaltimes.com/federal-oversight/congress/2020/12/04/2021-defense-policy-bill-would-expand-leave-benefits-for-feds/>
26. **What to Expect from CISA's Continuous Diagnostics and Mitigation Efforts in 2021** dtd: 04 December 2020; by: Mariam Baksh; published on: [Nextgov](https://www.nextgov.com/cybersecurity/2020/12/what-expect-cisas-continuous-diagnostics-and-mitigation-efforts-2021/170517/) on-line <https://www.nextgov.com/cybersecurity/2020/12/what-expect-cisas-continuous-diagnostics-and-mitigation-efforts-2021/170517/>
27. **Congress hits fast-forward to field new capability to counter drones** dtd: 04 December 2020; by: Jen Judson; published on: [DefenseNews](https://www.defensenews.com/pentagon/2020/12/04/congress-hits-fast-forward-to-field-new-capability-to-counter-drone-threats/) on-line <https://www.defensenews.com/pentagon/2020/12/04/congress-hits-fast-forward-to-field-new-capability-to-counter-drone-threats/>
28. **DoD and Australia ink first-ever cyber training partnership** dtd: 04 December 2020; by: Mark Pomerleau; published on: [C4ISRNet](https://www.c4isrnet.com/cyber/2020/12/04/dod-and-australia-ink-first-ever-cyber-training-partnership/) on-line <https://www.c4isrnet.com/cyber/2020/12/04/dod-and-australia-ink-first-ever-cyber-training-partnership/>
29. **Congress wants to know more about the Pentagon's new joint warfighting concept** dtd: 04 December 2020; by: Andrew Eversden; published on: [C4ISRNet](https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/04/congress-wants-to-know-more-about-the-pentagons-new-joint-warfighting-concept/) on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/04/congress-wants-to-know-more-about-the-pentagons-new-joint-warfighting-concept/>
30. **General Atomics Avenger Drone Flew An Autonomous Air-To-Air Mission Using An AI Brain** dtd: 04 December 2020; by: Joseph Trevithick; published on: [The Drive](https://www.thedrive.com/the-war-zone/37973/general-atomics-avenger-drone-flew-an-autonomous-air-to-air-mission-using-an-ai-brain) on-line <https://www.thedrive.com/the-war-zone/37973/general-atomics-avenger-drone-flew-an-autonomous-air-to-air-mission-using-an-ai-brain>
31. **Cybersecurity — the rest of the iceberg** dtd: 04 December 2020; by: James Stavridis; published on: [TheHill](https://thehill.com/opinion/cybersecurity/528299-cybersecurity-the-rest-of-the-iceberg) on-line <https://thehill.com/opinion/cybersecurity/528299-cybersecurity-the-rest-of-the-iceberg>
32. **CISA Warns of Iran's Offensive Cyber Capabilities** dtd: 04 December 2020; by: Mariam Baksh; published on: [Nextgov](https://www.nextgov.com/cybersecurity/2020/12/cisa-warns-irans-offensive-cyber-capabilities/170505/) on-line <https://www.nextgov.com/cybersecurity/2020/12/cisa-warns-irans-offensive-cyber-capabilities/170505/>
33. **Opinion: When climate change distracts the U.S. military** dtd: 07 December 2020; by: Dakota Wood; published on: [The Washington Times](https://www.washingtontimes.com/news/2020/dec/7/when-climate-change-distracts-the-us-military/) on-line <https://www.washingtontimes.com/news/2020/dec/7/when-climate-change-distracts-the-us-military/>
34. **Your robot vacuum could spy on you** dtd: 07 December 2020; by: National University of Singapore; published on: [Futurity](https://www.futurity.org/robot-vacuum-security-privacy-hacking-2482832-2/) on-line <https://www.futurity.org/robot-vacuum-security-privacy-hacking-2482832-2/>
35. **DoD's biggest challenges moving forward** dtd: 08 December 2020; by: Tom Temin; published on: [Federal News Network](https://federalnewsnetwork.com/defense-main/2020/12/dods-biggest-challenges-moving-forward/) on-line <https://federalnewsnetwork.com/defense-main/2020/12/dods-biggest-challenges-moving-forward/>
36. **Air Force's next hack of the federal procurement system: One-year funding** dtd: 08 December 2020; by: Jason Miller; published on: [Federal News Network](https://federalnewsnetwork.com/reporters-notebook-jason-miller/2020/12/air-forces-next-hack-of-the-federal-procurement-system-one-year-funding/) on-line <https://federalnewsnetwork.com/reporters-notebook-jason-miller/2020/12/air-forces-next-hack-of-the-federal-procurement-system-one-year-funding/>
37. **Insecure Communications Like WhatsApp Are Putting U.S. National Security at Risk** dtd: 04 December 2020; by: Blake Moore and Jan E. Tighe; published on: [Nextgov](https://www.nextgov.com/ideas/2020/12/insecure-communications-whatsapp-are-putting-us-national-security-risk/170577/) on-line <https://www.nextgov.com/ideas/2020/12/insecure-communications-whatsapp-are-putting-us-national-security-risk/170577/>
38. **The Pentagon has a decision to make on a major network security program** dtd: 08 December 2020; by: Andrew Eversden; published on: [C4ISRNet](https://www.c4isrnet.com/disa/2020/12/08/the-pentagon-has-a-decision-to-make-on-a-major-network-security-program/) on-line <https://www.c4isrnet.com/disa/2020/12/08/the-pentagon-has-a-decision-to-make-on-a-major-network-security-program/>
39. **Spies with Russia's foreign intelligence service believed to have hacked a top American cybersecurity firm and stolen its sensitive tools** dtd: 08 December 2020; by: Ellen Nakashima and Joseph Marks; published on: [The Washington Post](https://www.washingtonpost.com/national-security/leading-cybersecurity-firm-fireeye-hacked/2020/12/08/a3369aaa-3988-11eb-98c4-25dc9f4987e8_story.html) on-line https://www.washingtonpost.com/national-security/leading-cybersecurity-firm-fireeye-hacked/2020/12/08/a3369aaa-3988-11eb-98c4-25dc9f4987e8_story.html

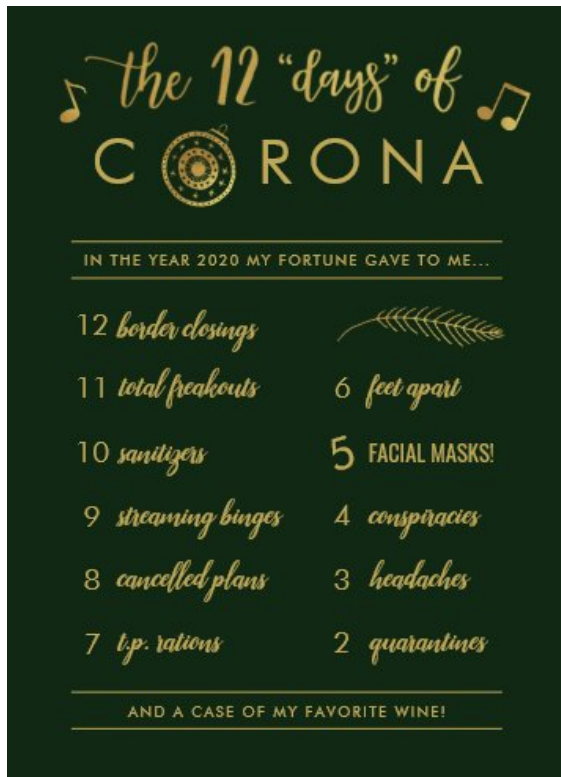
40. **Why Certain Cybersecurity Provisions Made it into the NDAA and Others Didn't** dtd: 09 December 2020; by: Mariam Baksh; published on: Nextgov on-line <https://www.nextgov.com/cybersecurity/2020/12/why-certain-cybersecurity-provisions-made-it-ndaa-and-others-didnt/170644/>
41. **DoD officials: Small changes in thinking about electronic warfare tools could give U.S. upper hand** dtd: 09 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/electronic-warfare/2020/12/09/dod-officials-small-changes-in-thinking-about-electronic-warfare-tools-could-give-us-upper-hand/>
42. **Defense policy bill prepares Pentagon for operational 5G** dtd: 09 December 2020; by: Andrew Eversden; published on: C4ISRNet on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/09/defense-policy-bill-prepares-pentagon-for-operational-5g/>
43. **Army, Navy name top advisers to guide cyber readiness** dtd: 09 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/09/army-navy-name-top-advisers-to-guide-cyber-readiness/>
44. **AI Is Reshaping the US Approach to Gray-Zone Ops** dtd: 09 December 2020; by: Patrick Tucker; published on: DefenseOne on-line <https://www.defenseone.com/technology/2020/12/ai-reshaping-us-approach-gray-zone-ops/170621/>
45. **DoD Needs Tighter Reins On EW Acquisition** dtd: 09 December 2020; by: Theresa Hitchens; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/dod-needs-tighter-reins-on-ew-acquisition/>
46. **Trump Officials Reviewing DOD Support To CIA** dtd: 09 December 2020; by: Katie Bo Williams; published on: DefenseOne on-line <https://www.defenseone.com/policy/2020/12/trump-officials-reviewing-dod-support-cia/170651/>
47. **Defense Primer: Military Use of the Electromagnetic Spectrum** dtd: 09 December 2020; by: Congressional Research Service; published on: Federation of American Scientists on-line <https://fas.org/sgp/crs/natsec/IF11155.pdf>
48. **IBM lays out plan for a 'digital society'** dtd: 10 December 2020; by: Tom Temin; published on: Federal News Network on-line <https://federalnewsnetwork.com/technology-main/2020/12/ibm-lays-out-plan-for-a-digital-society/>
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53. **An update on modernizing Congress** dtd: 11 December 2020; by: Tom Temin; published on: Federal News Network on-line <https://federalnewsnetwork.com/congress/2020/12/an-update-on-modernizing-congress/>
54. **The first 9 attempts to retrieve swarming Gremlins drones failed. Here's what's next.** dtd: 11 December 2020; by: Valerie Insinna; published on: DefenseNews on-line <https://www.defensenews.com/air/2020/12/11/the-first-nine-attempts-to-retrieve-swarming-gremlins-drones-failed-heres-whats-next/>
55. **Congress Wants to Beef Up Army Effort to Develop Counter-Drone Weapons** dtd: 11 December 2020; by: Matthew Cox; published on: Military.com on-line <https://www.military.com/daily-news/2020/12/11/congress-wants-beef-army-effort-develop-counter-drone-weapons.html>
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57. **Congress Fears DoD Not Prepared For NC3 Cyber Attacks** dtd: 11 December 2020; by: Theresa Hitchens; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/congress-fears-dod-not-prepared-for-nc3-cyber-attacks/>
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60. **What Trump's Order on Trustworthy AI Might Mean for Agencies** dtd: 14 December 2020; by: Brandi Vincent; published on: [Nextgov](https://www.nextgov.com/emerging-tech/2020/12/what-trumps-order-trustworthy-ai-might-mean-agencies/170752/) on-line <https://www.nextgov.com/emerging-tech/2020/12/what-trumps-order-trustworthy-ai-might-mean-agencies/170752/>
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62. **How DoD can improve its technology resilience** dtd: 14 December 2020; by: Mark Pomerleau; published on: [C4ISRNet](https://www.c4isrnet.com/cyber/2020/12/14/how-dod-can-improve-its-technology-resilience/) on-line <https://www.c4isrnet.com/cyber/2020/12/14/how-dod-can-improve-its-technology-resilience/>
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70. **Artificial Intelligences Are Power Hungry, But Not How You Think** dtd: 16 December 2020; by: John Breeden II; published on: [Nextgov](https://www.nextgov.com/ideas/2020/12/artificial-intelligences-are-power-hungry-not-how-you-think/170828/) on-line <https://www.nextgov.com/ideas/2020/12/artificial-intelligences-are-power-hungry-not-how-you-think/170828/>
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72. **DoD announces cybersecurity certification pilots** dtd: 16 December 2020; by: Mark Pomerleau; published on: [C4ISRNet](https://www.c4isrnet.com/cyber/2020/12/16/dod-announces-cybersecurity-certification-pilots/) on-line <https://www.c4isrnet.com/cyber/2020/12/16/dod-announces-cybersecurity-certification-pilots/>
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82. **Hacked networks will need to be burned 'down to the ground'** dtd: 19 December 2020; by: Frank Bajak; published on: Associated Press on-line <https://apnews.com/article/hacking-russia-baff5557a8941aa1a5ef239d36c4e28>
83. **DARPA's DyNAMO connects incompatible datalinks under electronic attack** dtd: 21 December 2020; by: Carlo Munoz; published on: Janes on-line <https://www.janes.com/defence-news/news-detail/darpas-dynamo-connects-incompatible-datalinks-under-electronic-attack>
84. **Two Years into the Government's National Quantum Initiative** dtd: 21 December 2020; by: Brandi Vincent; published on: Nextgov on-line <https://www.nextgov.com/emerging-tech/2020/12/two-years-governments-national-quantum-initiative/170949/>
85. **Trump Officials Deliver Plan to Split Up Cyber Command, NSA** dtd: 21 December 2020; by: Katie Bo Williams; published on: DefenseOne on-line <https://www.nextgov.com/cybersecurity/2020/12/trump-officials-deliver-plan-split-cyber-command-nsa/170927/>
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90. **Commentary: The importance of advancing loyal wingman technology** dtd: 21 December 2020; by: Tate Nurkin; published on: DefenseNews on-line <https://www.defensenews.com/opinion/commentary/2020/12/21/the-importance-of-advancing-loyal-wingman-technology/>
91. **How the Army Out-Innovated the Islamic State's Drones** dtd: 21 December 2020; by: T.S. Allen, Kyle Brown, and Jonathan Askonas; published on: WarOnTheRocks on-line <https://warontherocks.com/2020/12/how-the-army-out-innovated-the-islamic-states-drones/>
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93. **Which NDAA cyber provisions have the most impact for DoD?** dtd: 22 December 2020; by: Mark Pomerleau; published on: C4ISRNet on-line <https://www.c4isrnet.com/cyber/2020/12/22/which-ndaa-cyber-provisions-have-the-most-impact-for-dod/>
94. **EXCLUSIVE: Space Is At Heart Of JADC2, Says Maj. Gen. Crider** dtd: 23 December 2020; by: Theresa Hitchens; published on: BreakingDefense on-line <https://breakingdefense.com/2020/12/exclusive-space-is-at-heart-of-jadc2-says-maj-gen-crider/>

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96. **Pentagon awards \$2.5 billion Spectrum Forward contract** dtd: 24 December 2020; by: Nathan Strout; published on: [C4ISRNet](https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/24/pentagon-awards-25-billion-spectrum-forward-contract/) on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/24/pentagon-awards-25-billion-spectrum-forward-contract/>
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98. **In a Zero Trust World, Compliance Doesn't Equal Security** dtd: 28 December 2020; by: John Harmon; published on: [Nextgov](https://www.nextgov.com/ideas/2020/12/zero-trust-world-compliance-doesnt-equal-security/171046/) on-line <https://www.nextgov.com/ideas/2020/12/zero-trust-world-compliance-doesnt-equal-security/171046/>
99. **5 questions on the future of the Pentagon's top AI office** dtd: 28 December 2020; by: Andrew Eversden and Mark Pomerleau; published on: [C4ISRNet](https://www.c4isrnet.com/artificial-intelligence/2020/12/28/5-questions-on-the-future-of-the-pentagons-top-ai-office/) on-line <https://www.c4isrnet.com/artificial-intelligence/2020/12/28/5-questions-on-the-future-of-the-pentagons-top-ai-office/>
100. **Air Force Research Laboratory issues 17 grants for quantum research** dtd: 28 December 2020; by: Nathan Strout; published on: [C4ISRNet](https://www.c4isrnet.com/industry/2020/12/28/air-force-research-laboratory-issues-17-grants-for-quantum-research/) on-line <https://www.c4isrnet.com/industry/2020/12/28/air-force-research-laboratory-issues-17-grants-for-quantum-research/>
101. **Opinion: Government cyber breach shows need for convergence** dtd: 28 December 2020; by: Jan Kallberg , Maj. Chuck Suslowicz, and LTC Todd Arnold; published on: [C4ISRNet](https://www.c4isrnet.com/opinion/2020/12/28/government-cyber-breach-shows-need-for-convergence/) on-line <https://www.c4isrnet.com/opinion/2020/12/28/government-cyber-breach-shows-need-for-convergence/>
102. **Congress gives more power to DoD's industrial base official** dtd: 28 December 2020; by: Aaron Mehta; published on: [DefenseNews](https://www.defensenews.com/pentagon/2020/12/28/congress-gives-more-power-to-dods-industrial-base-official/) on-line <https://www.defensenews.com/pentagon/2020/12/28/congress-gives-more-power-to-dods-industrial-base-official/>
103. **FAA Unveils Final Drone Rules for Remote ID, Nighttime Flights and Operations Over Humans** dtd: 29 December 2020; by: Brandi Vincent; published on: [Nextgov](https://www.nextgov.com/emerging-tech/2020/12/29/faa-unveils-final-drone-rules-remote-id-nighttime-flights-and-operations-over-humans/171077/) on-line <https://www.nextgov.com/emerging-tech/2020/12/29/faa-unveils-final-drone-rules-remote-id-nighttime-flights-and-operations-over-humans/171077/>
104. **Critical Update: Why Having Artificial Intelligence Talent is a National Security Issue** dtd: 29 December 2020; by: Mila Jasper; published on: [Nextgov](https://www.nextgov.com/podcasts/2020/12/critical-update-why-having-artificial-intelligence-talent-national-security-issue/170976/) on-line <https://www.nextgov.com/podcasts/2020/12/critical-update-why-having-artificial-intelligence-talent-national-security-issue/170976/>
105. **DARPA's contribution to JADC2: 'Mosaic' warfare** dtd: 29 December 2020; by: Jared Serbu; published on: [Federal News Network](https://federalnewsnetwork.com/defense-main/2020/12/darpas-contribution-to-jadc2-mosaic-warfare/) on-line <https://federalnewsnetwork.com/defense-main/2020/12/darpas-contribution-to-jadc2-mosaic-warfare/>
106. **5 projects that advanced the Army's future networking capabilities in 2020** dtd: 29 December 2020; by: Andrew Eversden; published on: [C4ISRNet](https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/29/5-projects-that-advanced-the-armys-future-networking-capabilities-in-2020/) on-line <https://www.c4isrnet.com/battlefield-tech/it-networks/2020/12/29/5-projects-that-advanced-the-armys-future-networking-capabilities-in-2020/>
107. **2021: Will Army Modernization Survive?** dtd: 29 December 2020; by: Sydney J. Freedberg; published: [BreakingDefense](https://breakingdefense.com/2020/12/2021-will-army-modernization-survive/) online <https://breakingdefense.com/2020/12/2021-will-army-modernization-survive/>
108. **Opinion: Now is not the right time to split NSA and CYBERCOM** dtd: 29 December 2020; by: Nathan Strout; published on: [C4ISRNet](https://www.c4isrnet.com/opinion/2020/12/29/now-is-not-the-right-time-to-split-nsa-and-cybercom/) on-line <https://www.c4isrnet.com/opinion/2020/12/29/now-is-not-the-right-time-to-split-nsa-and-cybercom/>
109. **DOD Released Its First Enterprisewide Data Strategy in 2020. Here's Why It Matters.** dtd: 30 December 2020; by: Mila Jasper; published on: [Nextgov](https://www.nextgov.com/analytics-data/2020/12/dod-released-its-first-enterprisewide-data-strategy-2020-heres-why-it-matters/171016/) on-line <https://www.nextgov.com/analytics-data/2020/12/dod-released-its-first-enterprisewide-data-strategy-2020-heres-why-it-matters/171016/>
110. **The Army Aims to Be Less Dependent on Contractors for Software** dtd: 30 December 2020; by: Mariam Baksh; published on: [Nextgov](https://www.nextgov.com/emerging-tech/2020/12/army-aims-be-less-dependent-contractors-software/171098/) on-line <https://www.nextgov.com/emerging-tech/2020/12/army-aims-be-less-dependent-contractors-software/171098/>
111. **Artificial Intelligence Begins to Realize Its Potential** dtd: 30 December 2020; by: John Breeden IIr; published on: [Nextgov](https://www.nextgov.com/ideas/2020/12/artificial-intelligence-begins-realize-its-potential/171079/) on-line <https://www.nextgov.com/ideas/2020/12/artificial-intelligence-begins-realize-its-potential/171079/>

A bit of Humor:



And to go along with this theme:

The King's Singers - Twelve Days Of Christmas:

<https://www.youtube.com/watch?v=tVIYly3F-UI>

Upcoming Events:

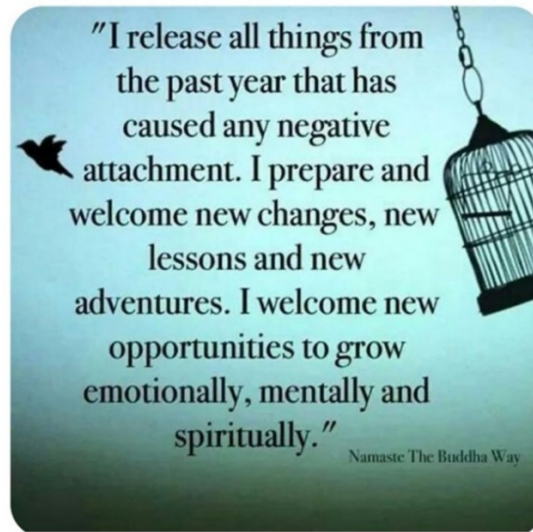
1. **Retirement!** As of 31 December 2020 I have made life's transition to full retirement. Although I will no longer be active in supporting the US Army C5IS Acquisition Community I will on occasion be attending professional and social functions at APG. I look forward to seeing you then! Tom Zalewski
2. **Cyber Electromagnetic Activity (CEMA) 2021** - May 25 - 27, 2021 | Aberdeen Proving Ground, Maryland | Online Registration will open on March 1, 2021 | More information at: <https://www.crows.org/page/CEMA2021>
3. **Other events of likely interest:**
 - 21 JAN '21: **APG Susquehanna Chapter Lunch and Learn** - Time: 1 to 2:30 ET Topic - The Technology Behind and Detection of Deep Fake Photos and Videos Speaker - Siwei Lyu, University of Buffalo (UB) To Register maryann_apostle@keysight.com

For all you History Buffs out there:

1. **How US Military Invented America's Favorite Snacks** dtd: 30 November 2020; by: Dora Mekouar; published on: Voice of America on-line <https://www.voanews.com/usa/all-about-america/how-us-military-invented-americas-favorite-snacks>
2. **Chinese Americans who served in WWII honored by Congress** dtd: 09 December 2020; by: Matthew Daly; published on: Associated Press on-line <https://apnews.com/article/china-veterans-coronavirus-pandemic-world-war-ii-united-states-fddc6bffb32d7e6e815035816381d75b>
3. **'Unsolvable': Forensic sleuth says he's identified a long-dead WWI doughboy, but whose job is it to bring him home?** dtd: 10 December 2020; by: Wyatt Olson; published on: Stars&Stripes on-line <https://www.stripes.com/news/us/unsolvable-forensic-sleuth-says-he-s-identified-a-long-dead-wwi-doughboy-but-whose-job-is-it-to-bring-him-home-1.654917>
4. **Historical Thinking for Resilient Leaders** dtd: 10 December 2020; by: Jeremi Suri; published on: Government Executive on-line <https://www.govexec.com/management/2020/12/historical-thinking-resilient-leaders/170669/>

5. **This is how the Christmas truce happened on the Western Front in 1914** dtd: 21 December 2020; by: Peter Hart; published on: [MilitaryTimes.com](https://www.militarytimes.com) on-line <https://www.militarytimes.com/off-duty/military-culture/2017/12/21/this-is-how-the-christmas-truce-happened-on-the-western-front-in-1914/>
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Some final BlackTops thoughts:



I HOPE MY BLACKTOP EFFORTS AND RAMBILINGS WERE OF USE TO YOU ALL!

THANK YOU

TO OUR CHAPTER SPONSORS!



GOLD



SILVER



BRONZE



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BECOME AN AOC SUSQUEHANNA SPONSOR

The Aberdeen Proving Ground Susquehanna Chapter of AOC has long been tied to the APG, formerly Fort Monmouth, community. Since BRAC in 2005, and the subsequent move to APG, the AOC is in the process of establishing the Susquehanna chapter along with plans for support to APG and the local community to facilitate networking between government and industry officials in the intelligence, electronic warfare and cyber disciplines and provide much needed support to educational/scholarship and STEM activities.

The Chapter will hold luncheons of interest to its members, support STEM related activities, provide scholarship opportunities to deserving students, and technical competitions to increase awareness of new and innovative technologies in the intelligence, electronic warfare and cyber domain.

To continue the efforts outlined above, we need your support for without your participation we will not be able to continue to provide the networking, scholarships, and community outreach that we provide today.

With this thought in mind, we have created a Sponsorship Program designed to fit most any company or individual, in an effort to provide the funding needed to support the Chapter's overall community outreach program.

Each Level provides the following benefits:

- Up to five seats at Chapter luncheons.
- Announcement of your Sponsorship through our various media platforms.
- Recognition at chapter events throughout the year.
- Special Logo recognition on our Aberdeen Proving Ground Susquehanna Chapter website.
- Your support listed on dozens of Chapter event email which are broadcast to the entire APG AOC membership database each year.

SPONSORSHIP OPTIONS

GOLD - \$1,000, provides 5 seats as outlined above

SILVER - \$500, provides 2 seats as outlined above

BRONZE - \$250, provides 1 seat as outlined above & is for companies with 10 or fewer employees.

To register on-line and pay via PayPal:

<http://aoc-apg.org/sponsorships/>

To register off-line, mail the registration form below with check enclosed.