

MAD SCIENTIST LABORATORY

... Exploring the Operational Environment

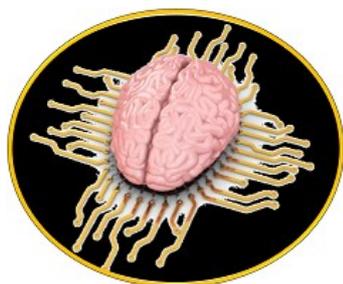


- [Home](#)
- [About](#)
- [Mad Scientist APAN](#)
- [TRADOC G-2 Multimedia](#)
- [Guest Bloggers](#)
- [Contact](#)
- [Disclaimer](#)
- [Privacy](#)
- [Terms Of Use](#)

TAG: BIO CONVERGENCE AND SOLDIER 2050 CONFERENCE

NOVEMBER 19, 2018

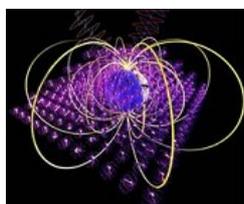
99. "The Queue"



[Editor's Note: Mad Scientist Laboratory is pleased to present our October edition of "The Queue" – a monthly post listing the most compelling articles, books, podcasts, videos, and/or movies that the U.S. Army's Training and Doctrine Command (TRADOC) Mad ... [Read the rest](#)

SEPTEMBER 20, 2018

84. Quantum Surprise on the Battlefield?



[Editor's Note: In the following guest blog post, Mad Scientist **Elsa B. Kanla** addresses quantum technology and the potential ramifications should the People's Republic of China (PRC) win the current race in fielding operational quantum capabilities].

If China were ... [Read the rest](#)



HOT!!!



Click [here](#) to review the TRADOC G-2's draft information paper **The Operational Environment (2021-2030): Great Power Competition, Crisis, and Conflict**, then drop us an email at madsctradoc@gmail.com and give us your feedback!

Click [here](#) to read the Army Future Command's new **AFC Pamphlet 525-2, Future Operational Environment: Forging the Future in an Uncertain World 2035-2050** addressing the mid- to far term OE and watch the associated [video](#)

Watch the TRADOC G-2's new [The 2 + 3 Threat](#) video addressing the near-term OE (i.e., 2020 to 2028)!

Watch the new [TRADOC 2028](#) video [via a non-DoD network]!

PRIMERS ON THE OPERATIONAL ENVIRONMENT

[The Changing Character of Future Warfare](#) video

[TRADOC Pamphlet 525-92, The Operational Environment and the Changing Character of Warfare](#)

[Potential Game Changers](#) handout

[TP 525-92-1, The Changing Character of Warfare: The Urban Operational Environment](#)

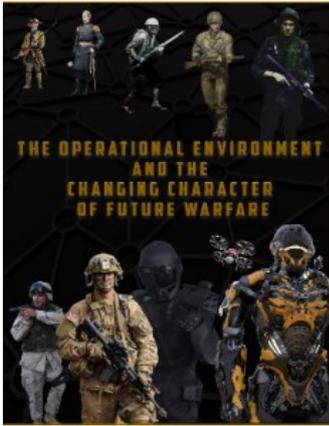
[The Arctic Through 2035: An Overview of the Operational Environment and Competitor Strategies for U.S. Army Training, Doctrine, and Capabilities Development](#)

[The Information Environment: Competition & Conflict](#) anthology

MORE OPERATIONAL ENVIRONMENT RESOURCES...

APRIL 5, 2018

42. China's Drive for Innovation Dominance



“While the U.S. military may not necessarily have to fight Russia or China, it is likely that U.S. forces through 2050 will encounter their advanced equipment, concepts, doctrine, and tactics in flashpoints or trouble spots around the globe..” — extracted ... [Read the rest](#)

MARCH 15, 2018

36. Lessons Learned from the Bio Convergence and Soldier 2050 Conference



(Editor's Note: Mad Scientist successfully facilitated the **Bio Convergence and Soldier 2050 Conference** on 8-9 March 2018 with our co-sponsor, **SRI International**, at their Silicon Valley campus in Menlo Park, California. With over **400 live and virtual participants**... [Read the rest](#)

MARCH 12, 2018

35. Auto Immune Disease Treatment in a New Age of Bio Convergence

(Editor's Note: Following the conclusion of last week's informative **Bio Convergence and Soldier 2050 Conference**, Mad Scientist Laboratory is pleased to present **Mr. Frank Prautzsch's** timely guest blog post, addressing how the future of vaccines is in nano-biology ... [Read the rest](#)

Watch [The Future of Unmanned Maritime Systems Webinar](#) [via a non-DoD network]

“THE CONVERGENCE” — ARMY MAD SCIENTIST PODCASTS

Undersecretary of the Navy **James F. “Hondo” Geurts** and **Dr. Zachary S. Davis**, Senior Fellow, Center for Global Security Research, Lawrence Livermore National Laboratory, [discuss Strategic Latency Unleashed: The Role of Technology in a Revisionist Global Order and the Implications for Special Operations Force and how to think radically about the future, capitalize on talent, and unleash technological convergences to out-compete our adversaries, and when necessary, defeat them decisively in conflict.](#)

COL John Antal (USA-Ret.), author and innovator in the interactive gaming and learning industry, [discusses](#) the implications of the Second Nagorno-Karabakh Conflict, the psychological effects of drone warfare, and the future of maneuver.

COL Scott Shaw, Commander, U.S. Army Asymmetric Warfare Group, [discusses](#) the future of ground warfare, including lessons learned from the Nagorno-Karabakh Conflict in 2020 and the realities of combat for tomorrow's Soldiers.

Dr. David Kilcullen, bestselling author and expert on unconventional warfare, [discusses](#) how the U.S. Army must prepare to engage “Dragons” and “Snakes” as they employ Liminal Warfare and blended cyber-kinetic operations to avoid our conventional warfare dominance.

Mr. Doowan Lee, Senior Director, Signal Labs, [discusses](#) disinformation, changes over time in approaches to information warfare, and collaboration between Russia and the Chinese Communist Party on information operations.

Click [here](#) to listen to other episodes of “The Convergence”

MAD SCIENTIST PARTNER SITES

Modern War Institute Podcasts

[Former Deputy Defense Secretary Robert Work Assesses the Future Battlefield](#)

[Dr. Moriba Jah on What Does the Future Hold for the US Military In Space?](#)

[Elsa Kanla on China and Its Pursuit of Enhanced Military Technology](#)

Small Wars Journal [Mad Scientist Page](#)

U.S. Army War College [War Room](#)

Australian Army [The Cove](#)

Australian Defence College [The Forge](#)

SEARCH



SUBSCRIBE TO US!

Subscribe to receive automatic updates of our latest posts by entering your non-DoD email address, then clicking on the "Submit" button!

Email



ARCHIVES

[June 2021](#)

[May 2021](#)

[April 2021](#)

[March 2021](#)

[February 2021](#)

[January 2021](#)

[December 2020](#)

[November 2020](#)

[October 2020](#)

[September 2020](#)

[August 2020](#)

[July 2020](#)

[June 2020](#)

[May 2020](#)

[April 2020](#)

[March 2020](#)

[February 2020](#)

[January 2020](#)

[December 2019](#)

[November 2019](#)

[October 2019](#)

[September 2019](#)

[August 2019](#)

[July 2019](#)

[June 2019](#)

[May 2019](#)

[April 2019](#)

[March 2019](#)

February 2019

January 2019

December 2018

November 2018

October 2018

September 2018

August 2018

July 2018

June 2018

May 2018

April 2018

March 2018

February 2018

January 2018

December 2017

November 2017



[AKO](#) [CAC-T](#) [US Army](#) [TRADOC](#) [Victory Starts Here](#) [No Fear Act](#) [FOIA](#) [Accessibility/Section 508](#) [Privacy](#) [Terms of Use](#)

Could not connect to the reCAPTCHA service. Please check your internet connection and reload to get a reCAPTCHA challenge.