

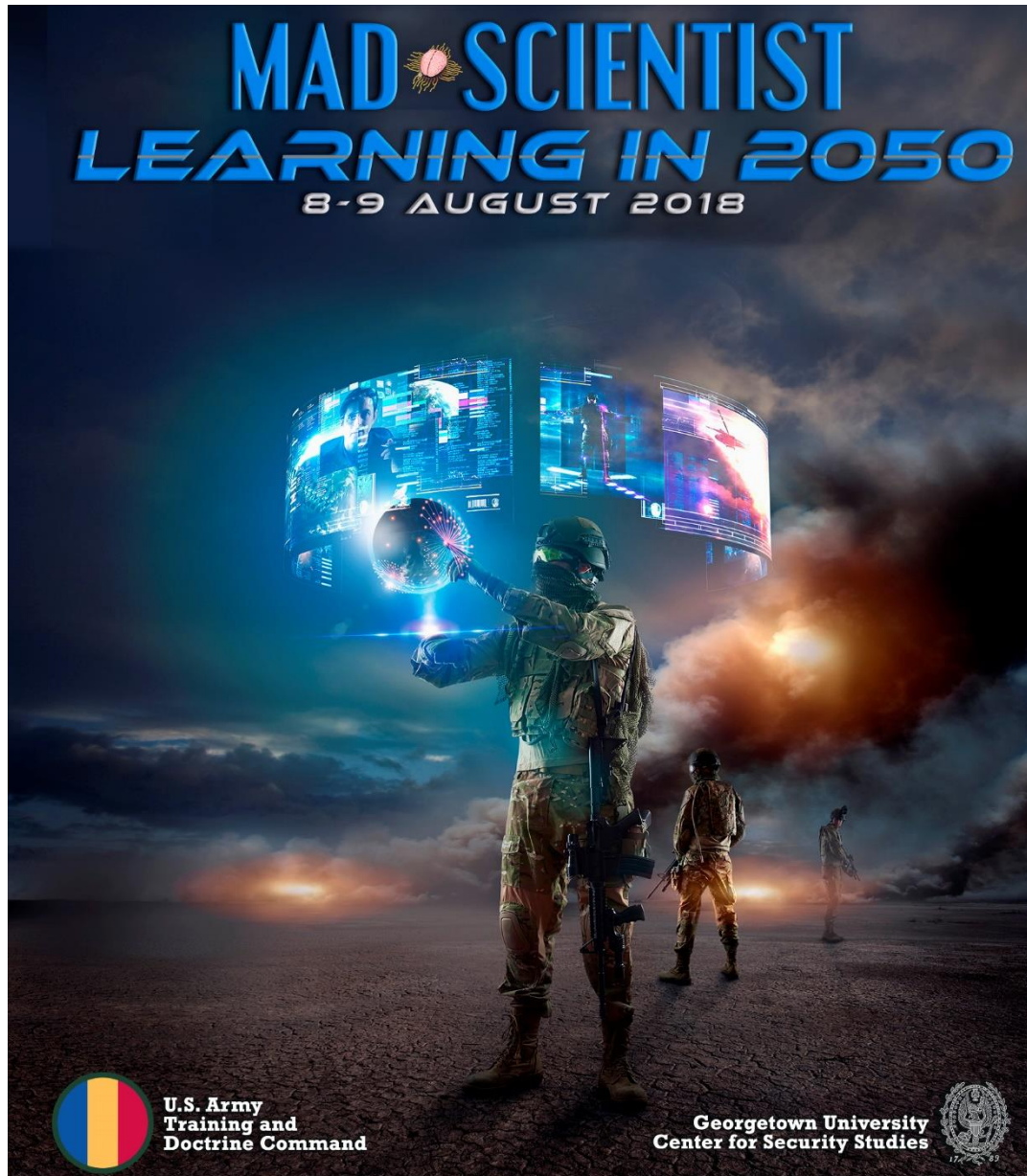
UNCLASSIFIED



MAD SCIENTIST

LEARNING IN 2050

8-9 AUGUST 2018



U.S. Army
Training and
Doctrine Command

Georgetown University
Center for Security Studies



Victory Starts Here!

UNCLASSIFIED



UNCLASSIFIED



Mad Scientist Initiative

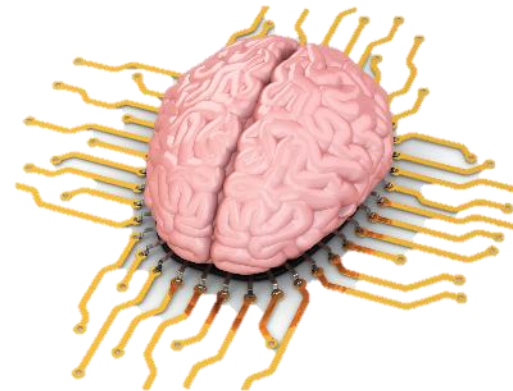
What is Mad Scientist?

- **Community of Action**
- All Partners Access Network (APAN) virtual community of 800+ members
- Conferences at Nation's premier learning institutions
- Webinars connecting the Army to the Nation's intellect
- Crowdsourcing through writing programs and online wargaming; 100+ articles published on Small Wars Journal and Mad Scientist Laboratory

Who does Mad Scientist support?

Leader Development

Concept Development



Training

Capability Development

@ArmyMadSci

Blog: <http://madsciblog.tradoc.army.mil>

APAN: <https://community.apan.org/wg/tradoc-g2/mad-scientist/>

SWJ: <http://smallwarsjournal.com/madscience>

YouTube: <https://www.youtube.com/user/G2TBOC>

Continuous outreach to academic & industry thought Leaders



UNCLASSIFIED



Visioning the Future

Story Telling

Creative fictional writing and narrative building that helps us see how technologies are employed and operationalized...



Edge Cases

Examining what is at the extreme possible regarding new and emerging technologies allows us to contextualize the future...



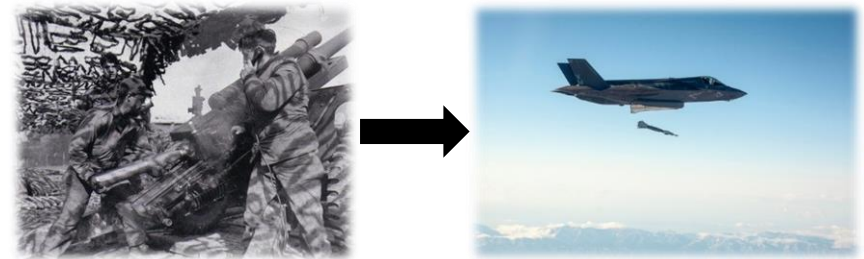
Crowdsourcing

The gathering of ideas, thoughts, and concepts from a widespread variety of interested individuals assists us in diversifying thought and challenging assumptions...



Historical Analogy

The comparison of past events to current and future happenings allows us to imagine the transformational and sometimes radical changes the Army of the future may experience...



These tools are used to help us view and add context to the the 12 Military Trends that we follow



UNCLASSIFIED



Mad Scientist Initiative

Envisioning Future Warfare



Bio Convergence & Soldier 2050

8-9 March 2018, Menlo Park, CA



Addresses bio tech convergence and human co-evolution

- Bio and operational environment attributes (bio-inspired materials, biotechnology tools, man-machine interface)
- The coming pandemic
- Democratization of bio improvements
- Soldier enhancement

Primary Partner:



SRI International

Installations of the Future

19-20 June 2018, Atlanta, GA



Addresses opportunities associated with the integration of smart technologies for Army installations / Strategic Support Areas

- Current and emerging threat vectors facing installations
- “Smart city” opportunities born of technology
- Installations as Initial Maneuver Platforms
- Enhanced Warfighter readiness through synthetic training and brain “gyms”

Primary Partners:



Army Secretariat



Georgia Tech Research Institute



Black Swans & Pink Flamingos

1-2 May 2018, Charlottesville, VA

Classified event assessing possible events not currently addressed by the Joint Force

- Black swans - unpredictable / unforeseen event, with extreme consequences
- Pink flamingos - predictable event, but ignored due to institutional / cultural resistance
- Disruptive technologies – AI, cyber, nano, hypersonic weapons, quantum

Primary Partner:



National Ground Intelligence Center

Learning in 2050

8-9 August 2018, Washington, D.C.



Addresses enabling technologies, autonomous and accelerated learning, and 21st century skills.

- Enabling technologies: gamification; augmented, mixed, and virtual reality; neural stimulation
- Learning: accelerated, augmented, and autonomous learning to break the 10,000 rule of expertise
- 21st Century skills

Primary Partner:



GEORGETOWN UNIVERSITY

Victory Starts Here!

UNCLASSIFIED



UNCLASSIFIED

Registration



- Sign in and verify contact information
- Pay your \$15 and enjoy coffee, drinks, and lunch
- No Host Social
 - Chophouse & Brewery, 509 7th Street
 - 1700 - 1900
- Conference POCs
 - Lee Grubbs 703-395-0862
 - Allison Winer 757-806-0933
 - Fred Batchelor 757-880-3816





Rules of the Road

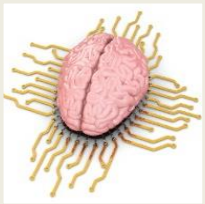
- Unclassified
- Everything is live streamed
- Timing
- Microphones
- Ask one question; be succinct
- Introduce yourself to at least 10 people



UNCLASSIFIED



Connect with the Mad Scientist Network



Virtual Attendance

- <http://www.tradoc.army.mil/watch/>



Mad Sci Lab

- <http://madsciblog.tradoc.army.mil/>



All Partners Access Network (APAN)

- <https://community.apan.org/wg/tradoc-g2/mad-scientist>



TRADOC G2 OEE YouTube Channel

- <https://www.youtube.com/user/G2TBOC>



Small Wars Journal

- <http://smallwarsjournal.com/madscience>



TWITTER

@TRADOC
@ArmyMadSci
@GeorgetownCSS

#Learning2050
#USArmy