



MAD SCIENTIST 2016: STRATEGIC SECURITY ENVIRONMENT 2050

8-9 August 2016

Georgetown University

640 Massachusetts Ave NW, Washington DC

Administrative Instructions

Welcome

On behalf of the Chief of Staff of the Army's Strategic Studies Group; the Commanding General, U.S. Army Training and Doctrine Command (TRADOC); the Georgetown University's Center for Security Studies and the TRADOC DCS, G-2, you are cordially invited to attend our Mad Scientist Conference: Strategic Security Environment in 2050. The event will be held at the Georgetown University School of Continuing Studies, 640 Massachusetts Ave NW, Washington D.C. from 8-9 August 2016.

You have been identified as a person with the knowledge and expertise to make a difference in shaping the future of our Army. We hope that you will give serious consideration to this invitation.

Conference attendance is by invitation only. There is limited seating that provides no flexibility at this event.

Conference Overview

The theme for this conference is: **Strategic Security Environment 2050**. The strategic environment is defined as the set of global conditions, circumstances, and influences that affect the employment of all elements of U.S. national power. The strategic environment is essentially the sum of all of the Operational Environments (OE's) in which the commanders and units could find themselves conducting decisive action operations. The conditions of the strategic environment must be understood, captured and factored into Army decision-making, training, capabilities, and leader development and education.

The nature of war – what it is and why it is fought – is eternal; it is violent, interactive, and fundamentally political. However, the character of war – how it is fought – is ever-changing due to constantly shifting strategic trends in, for example, demographics, governance, and technology. *We propose that the direction global trends shaping the future Operational Environment (2030-2050), and the geopolitical situation that results from it, will lead to fundamental change in the character of war.*

Information gathered at this event will be synthesized to inform the Commanding General, TRADOC on science and technology investment recommendations to the Chief of Staff of the Army and the Army Acquisition Executive. Mad Scientist supports continuous dialogue between Joint military partners, international partners, academia, policy institutions, and private sector organizations to help the Army explore the



evolution of the Operational Environment (OE) through the year 2050. Mad Scientist also seeks to examine the effects of all aspects of technology as well as other OE factors on the far future of armed conflict.

Conference Purpose

Mad Scientist is the vehicle for describing war in 2050. The critical notion is that we will move forward to 2050 and look back to explore: 1) the form(s) of governance that may have emerged, as well as the causes of war over history brought forward and set in 2050; and 2) the underlying logic at "turning points" in the character of war.

The event will address the following questions:

1. How will the physical attributes of the future operational environment change between now and 2030 to 2050? Include descriptions of the terrain (including urban and complex terrain) and assess the agility and/or resilience required to adapt to these changes.

2. How will changes in the future operational environment impact our current approaches to protection, survivability, and lethality? (For example, demographics, situational awareness, Human Dimension, WMD, etc.)

3. What operational environment trends and areas of potential conflict should the Army watch in the deep future to prevent getting it "too wrong?" Consider demographics, economics, science and technology, resources, alliances, etc.

4. What types of capabilities, concepts, and force structure will the Army require to meet the challenges of the operational environment between 2030 and 2050? How will changes in the character of warfare in the future impact the Army Warfighting Challenges and the Army Warfighting Functions?

5. What role will military applications of emerging advanced technologies play in shaping the future operational environment (2030 to 2050)? Will they radically alter the way warfare is conducted? If so, how?

6. How will global trends impact the U.S. and its national interests in 2050? What enduring U.S. National Interests in 2050 may require use of military force? How might new or emerging systems of governance affect use of military force to achieve national interests?

Objective

Ensure and maintain a perspective on understanding the far future operational environment and the underlying technology evolution to support the campaign of learning, Force 2025 Maneuvers, and capability development for the U.S. Army.



Conference Check In

Check in is between **0815 and 0900** at the Georgetown University School of Continuing Studies in the SCS Auditorium located at **640 Massachusetts Ave NW, Washington DC**. During check-in, participants will be asked to verify their contact information and will receive an identification badge for use during the symposium. There will be no early registration.

Note: Due to security requirements & limited seats, you will be turned away if you are not on the list. NO SUBSTITUTIONS.

Security Information & Requirements for ID

If you are not on the invitation or RSVP list, *you will not be admitted.*

Accepted forms of ID

- **Military ID**
- **Valid License** the 5 States' IDs that are banned from use as Identification on DoD Installations and apply to this conference are: *Illinois, Missouri, New Mexico, Washington and Minnesota*. If you have a license from one of these states, you must provide an additional form of valid picture ID.
- **Valid passport**

Event Classification

The Mad Scientist 2016 Conference is an UNCLASSIFIED event. Participants do not require security clearances or visit requests.

Cellular Phones

Cell phones are permitted in the symposium area. However, please turn off all communication devices during all symposium plenary and work group sessions.

Internet Access

Internet access will be available.

Register on All Partners Access Network - APAN

APAN is a collection of communities developed to foster information and knowledge sharing between the U.S. Department of Defense and non-DOD entities who do not have access to traditional DOD networks. Attendees must visit the TRADOC G-2 Mad Scientist community on APAN for administrative instructions for the conference. The TRADOC G-2 Mad Scientist community can be found at:

<https://community.apan.org/wg/tradoc-g2/mad-scientist/>. Register for an account at: <https://www.apan.org/>. (Note: this link does NOT register you for the conference)

Required Survey Participation

Attendance at the conference requires participants to take part in an online survey that is designed to help TRADOC G-2 rapidly adapt to the dynamic strategic environment of



the far future. This survey helps us look at ideas from the conference in the context of how they will enable us to address the 20 Army Warfighting challenges. Time will be allocated throughout the event to participate in the survey. The survey can be found through our Mad Scientist APAN site at: <https://community.apan.org/wg/tradoc-g2/mad-scientist/p/survey>.

Attire

Attire for the Mad Scientist conference is the duty uniform (ACU) for military personnel or business casual for civilians. Attire for the Day 1 social is business casual with symposium name tag.

Meals and Snacks

Coffee service in the morning, snacks, and drinks during planned breaks will be available both days at no cost. Lunches for each day will be at no cost. **Note: no food or drink is permitted in the conference room.**

Travel Expenses

Participants are responsible for all their own meals, travel, and lodging. United States Government (USG) personnel are required to adhere to government travel requirements. For USG personnel, rental cars are discouraged for this event and alternative forms of transportation (e.g., mass transit, services like Uber, and taxis). Hotel shuttles ARE NOT available to and from the airport. All activities for the conference are within walking distance. For USG personnel, travel reimbursement is limited to authorized and legitimate travel expenses. All DoD travel must be booked through the Defense Travel System (DTS) for DoD only.

Registration

A link will be sent to invitees. **There are no substitutions/ replacements permitted for this event due to security requirements.** If you cannot attend and you would like to propose a substitution or replacement, please email Dr. Kira Hutchinson at kira.d.hutchinson.civ@mail.mil

Getting there

Please see attached maps for directions from local hotels to conference center.

Fees

There are no conference fees associated with this event.

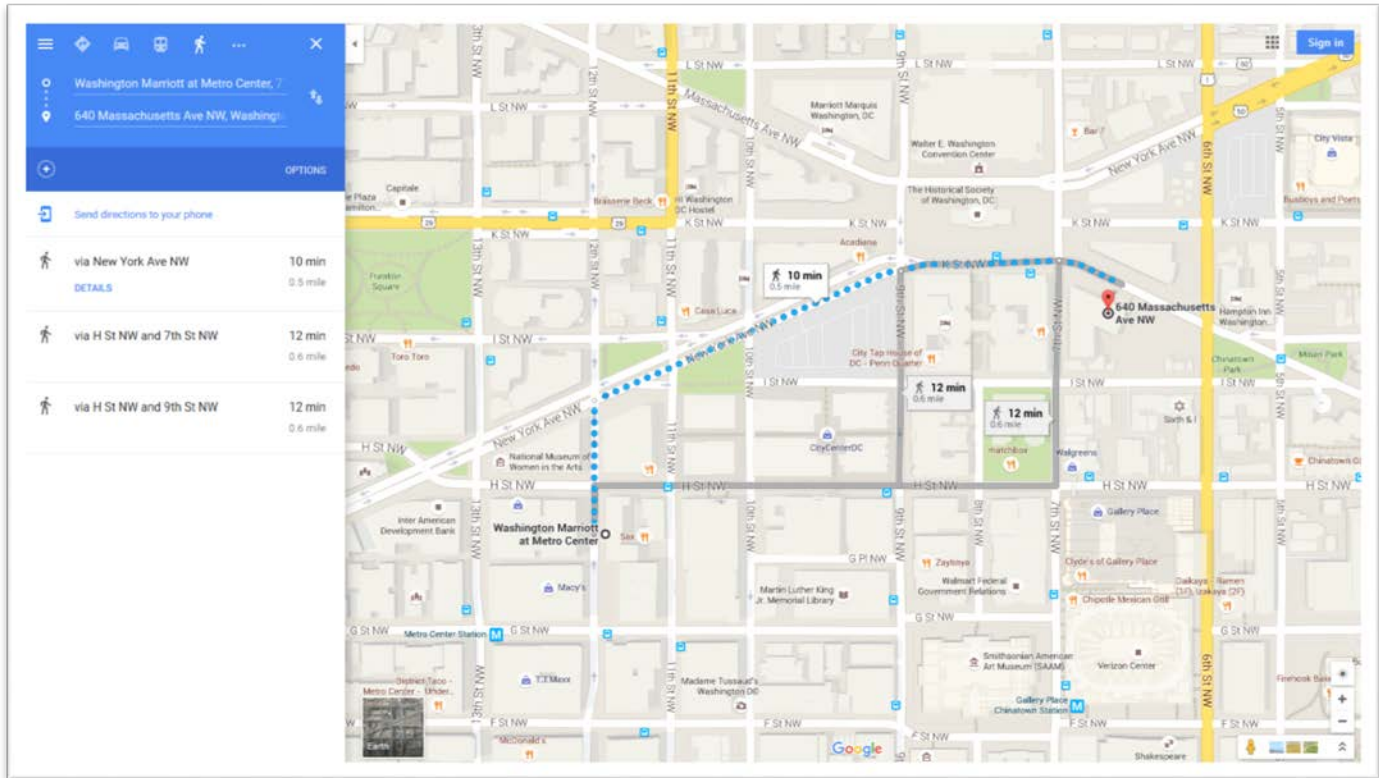
Accommodations

Participants are responsible for arranging their own lodging. A block of rooms, identified under "Mad Scientist," have been reserved at the **Washington Marriott at Metro Center until 7 July for \$226/ night. This hotel does not provide shuttle service.** It is a 10 minute walk to the conference center.



Hotel Address

Washington Marriott at Metro Center
775 12th Street NW
Washington, District Of Columbia 20005 USA
+1-202-737-2200



Hotel and conference location

Parking

Hotel Valet parking, fee: \$37.00 USD daily

There are a number of parking garages with similar daily/overnight prices.

From Airports

Ronald Reagan Washington National Airport - DCA

Hotel direction: 4 miles N

- Subway service, fee: \$3 USD (one way)
- Estimated taxi fare: \$20 USD (one way)

DCA airport website <http://www.metwashairports.com/reagan/reagan.htm>

Driving directions

Follow the signs to Washington, DC (George Washington Parkway/I-395 North). Exit onto 12th Street, NW. The hotel is 4 blocks ahead on the right.



Washington Dulles International Airport - IAD

Hotel direction: 27.2 miles E

Bus service, fee: \$10 USD (one way)

Estimated taxi fare: \$74 USD (one way)

IAD airport website: <http://www.metwashairports.com/dulles/dulles.htm>

Driving directions

Follow the signs to Interstate 66 East to Washington. Follow signs to US-50 E / Constitution Ave. Follow Constitution and turn left at 12th Street NW. The hotel is ahead 4 blocks on the right.

Baltimore/Washington International Thurgood Marshall Airport - BWI

Airport Phone: +1 410 859 7111

Hotel direction: 32.2 miles SW

Bus service, fee: \$12 USD (one way)

Estimated taxi fare: \$85 USD (one way)

BWI airport website: <http://www.bwiairport.com/en>

Driving directions

Take the Baltimore-Washington Parkway South (MD 295) to US 50 West (New York Avenue). Take New York Avenue westbound. Turn left onto 7th Street, NW. Turn right onto G Street, NW and right on to 12th Street, NW. The hotel is ahead on the right.

Parking near conference

The closest parking to the venue is the parking lot at 7 & Massachusetts Ave

Address: 900 New York Ave NW, Washington DC.

FYI for travel while in DC



WHS-16-03 METRO SafeTrack Plan Impa

In addition to the effects on Metrorail service, shuttle and bus arrival and Metro departure times may change as a result of **single tracking** and **line segment shutdowns** at the affected Metrorail stations. The Safe Track Preparedness Plan includes 15 safety surges that will lead to continuous single tracking or complete shutdowns of certain line segments. Personnel can find the latest update on each safety surge at <http://www.wmata.com/safetrack>. See the embedded flyer (PDF) on resources to help personnel plan their commutes.



Direct questions about the METRO Safe Track Plan to the Washington Metropolitan Area Transit Authority at (202) 637-7000 or to the WHS Transportation Management Program Office at (571) 372-7124 or whs.pentagon.em.mbx.dod-shuttle-bus@mail.mil

No-host Social

Monday 8 August- after conference

District Chop House and Brewery
509 7th Street NW Washington, DC 20004

A 10 minute walk from the conference.

