



USAF Center for Unconventional Weapons Studies

AWC/CUWS, 125 Chennault Circle
Maxwell AFB, AL 36112-6427
Tel/ (334) 953-2103 Fax/ (334) 953-7530



Annual Report – Academic Year 2018

Mission: Develop Air Force, DoD, and other USG leaders to advance the state of knowledge, policy, and practices within strategic defense issues involving nuclear, biological, and chemical weapons

Goal 1: *Educate Airmen and other USG leaders on how to think critically about the operational and strategic implications of unconventional weapons within the context of military operations*

Professional Military Education:

- Deterrence Research Task Force: two-term elective on strategic deterrence and nuclear weapons issues (ten Air War College and Air Command and Staff College students)
- Joint Air War College/Air Command and Staff College electives: Homeland Security and Defense; Using Airpower to Counter WMD; Arms Control and Nonproliferation; Nuclear Wargaming
- Air Command and Staff College electives: The Terrain Walk; The Manhattan Project
- Field trips to HQ Air Staff, Joint Staff, OSD Policy, OSD AT&L, Defense Threat Reduction Agency, State Department, National Nuclear Security Administration, Los Alamos National Laboratory, Sandia National Laboratory, Oak Ridge National Laboratory, FBI New Orleans Field Office, Immigrations and Customs Enforcement New Orleans Field Office, New Orleans Office of Homeland Security and Emergency Preparedness, U.S. Coast Guard, Centers for Disease Control.

Professional Continuing Education (enlisted, officers, and civilians):

- Executed the “Striker Deterrence Basic Course” for Air Force Global Strike Command, resulting in approximately 800 Airmen being educated on deterrence concepts and Air Force nuclear enterprise operations
- Developed a “Striker Deterrence Basic Course for Executives” for Air Force Global Strike Command, targeting non-core nuclear career field leaders and managers

Workshops and Courses:

- Hosted the 2017 Deterrence Education and Research Symposium at Maxwell AFB
- Hosted the 2017 Deterrence Education Summit at Maxwell AFB (GO/SES-level)
- Hosted a DTRA workshop on mobile missiles at the LeMay Wargaming Center

Expert Speakers Visiting Maxwell AFB:

Mr. Jeff Nolan (JCS J5)	Mr. David Toczek (USSTRATCOM J5)
Dr. Matthew Kroenig (Georgetown Univ)	Mr. Thomas Disilverio (NORTHCOM)
Lt Col Gary McLeod (AL WMD CST)	Maj Ranae Doser-Pascual (JAG)



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Goal 2: Produce quality research on relevant unconventional weapon issues that contributes to policy-making while advancing academic scholarship

Original Research:

- CUWS book, “NPR Next: AY17 Strategic Deterrence Research Papers,” Dr. Mel Deaile and Mr. Al Mauroni
- CUWS book, “Evaluating the Effectiveness of Assurance and Deterrence Missions: AY17 Strategic Deterrence Research Papers,” Dr. Todd Robinson and Mr. Al Mauroni
- AWC Professional Study Paper, “Defining a Class of Offensive Destructive Cyber Weapons as WMD,” Lt Col Benjamin Hatch (AY17 Horner Award)
- ACSC paper, “South Korean Efforts to Counter North Korean Nuclear Aggression,” Maj Aaron Baum (AY17 Miller Award)
- Two professional journal articles (*PRISM Journal on Complex Operations*, *Texas National Security Review*)
- Five electronic journal articles published on the internet (*Defense One*, *Modern War Institute*, *War on the Rocks*)

Information Repositories:

- Maintaining a SharePoint site for educational reference material on nuclear deterrence, arms control and nonproliferation, and counter-WMD issues
- Archived all CUWS Outreach Journals, published books and monographs, and Trinity Site papers on the CUWS website

Goal 3: Advise Air Force, DoD, and other USG policy-makers by offering critical insights and analysis on current and future (4-15 yrs) challenges posed by unconventional weapons

Social Outreach:

- CUWS Outreach Journal emailed to more than 2,000 recipients across the national security enterprise – average 30 stories per journal, weekly distribution
- Growing Twitter presence (493 followers, up from 376 last year), directly supporting DoD and Air Force outreach efforts

External Engagement:

- Attended 2017 USSTRATCOM Deterrence Symposium
- Participated in 20th Aerospace Symposium, Seoul, South Korea
- Attended USSOCOM Counter-WMD Global Synchronization Conference
- Participated in NDU’s Counter-WMD Education Consortium
- Speaking engagements at Temple University, Japan, and the Korea Advanced Institute of Science and Technology, South Korea
- Participated in the Southern Political Science Association Annual Meeting, ISSS-ISAC Annual Conference, and CFR-Hatchi Fellows Annual Meeting