



**USAF Center for Strategic
Deterrence Studies**
AWC/CSDS, 125 Chennault Circle
Maxwell AFB, AL 36112-6427



Annual Report – Academic Year 2020

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 strategic deterrence within the context of military operations*

Professional Military Education:

- Air War College electives: Deterrence Research Task Force: two-term elective on strategic deterrence and nuclear weapons issues (3 students)
- Air Command and Staff College electives: The Manhattan Project (leadership, 6 students), Homeland Security (5 students), Nuclear Wargames (8 students), Terrain Walk (leadership, 6 students)
- Air Force-wide: Counter-WMD Policy and Strategy distance learning elective (13 students)
- Field trips to HQ Air Staff, Joint Staff, OSD Policy, OSD A&S, National Nuclear Security Administration, Oak Ridge National Laboratory, Centers for Disease Control, FEMA Region IV HQ

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

- Continued “Strategic Deterrence Basic Course” distance learning for Air Force Global Strike Command, teaching more than a thousand Airmen at multiple AFGSC bases through the year
- Taught one “Strategic Deterrence Basic Course for Executives” for Air Force Global Strike Command senior leaders in September 2019
- Transferred SDBC for Executives to Canvas for future virtual education

Workshops and Courses:

- Taught electives on counter-WMD issues for CMSgt Leadership Course through the year
- Instructed 68 students at the George C. Marshall Center in Germany on CBRN terrorism in August 2019 and February 2020

Expert Speakers Visiting Maxwell AFB:

Dr. Brad Roberts (LLNL)



USAF Center for Strategic Deterrence Studies

AWC/CSDS, 125 Chennault Circle
Maxwell AFB, AL 36112-6427



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

Original Research:

- CSDS books, “AY19 Strategic Deterrence Research Papers” Vols I and II, Dr. Paige Cone, Dr. James Platte, and Dr. Lew Steinhoff
- CSDS Monographs, “Assessing the Influence of Hypersonic Weapons on Deterrence,” edited by Dr. Paige Cone, and “Are Drone Swarms Weapons of Mass Destruction?” by Zachary Kallenborn
- Dr. Platte, “Exporting Nuclear Norms: Japan and South Korea in the International Nuclear Market,” in Air Force Journal of Indo-Pacific Affairs, Summer 2020
- Dr. Platte, “Defending Forward on the Korean Peninsula: Cyber Deterrence in the U.S.-ROK Alliance,” in Cyber Defense Review, Spring 2020
- Dr. Cone and Nathan Terry, "Hypersonic Technology as an Evolution in Nuclear Weapon Delivery Technology," Strategic Studies Quarterly Summer 2020
- Dr. Cone and Dr. Rupal Mehta, “Inducements in Interstate Relations,” Oxford University Press
- Lt Col Joseph Hank, “Credibility of U.S. Deterrence in the Baltic States after Crimea’s Annexation,” AY20 Horner Award
- Major Scott Curtice, “Why Do States Build Nuclear Weapons?,” AY20 Miller Award
- Five electronic journal articles published on the internet (*War on the Rocks, Modern War Institute, ARMY Magazine*)

Information Repositories:

- All books, monographs, and occasional papers archived on the CSDS website
- SharePoint site for educational reference material on nuclear deterrence, arms control and nonproliferation, and counter-WMD issues
- “Deterrence Research Knowledge Center” continues to hold a significant listing of educational courses for Airmen as well as academic research papers and other data



USAF Center for Strategic Deterrence Studies

AWC/CSDS, 125 Chennault Circle
Maxwell AFB, AL 36112-6427



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 nuclear, biological, and chemical weapons

Workshops and Courses:

- Hosted the fourth Deterrence Education Summit at Maxwell AFB in August 2019
- Participated in HAF/A10 Conventional-Nuclear Integration Exercise at Maxwell AFB

Social Outreach:

- Facebook page highlights CSDS activities
- CSDS News & Analysis emailed to more than 1,800 recipients across the national security enterprise – reformatted to highlight 10 stories per journal, weekly distribution
- Continued Twitter presence (738 followers, up from 635 last year), supporting DoD and AF outreach efforts relating to nuclear deterrence and counter-WMD

External Engagement:

- Participated in the USSOCOM CWMD Coordination Conference in September 2019
- Presented at Japan Air Command and Staff College Seminar in November 2019
- Presented at International Conference on Cyber Conflict in November 2019
- Participated in the Jonathan Tucker CBW Symposium in DC in December 2019
- Participated in LLNL CGSR series in June 2020