



UNITED STATES AIR FORCE CENTER FOR
UNCONVENTIONAL
WEAPONS STUDIES

Annual
Report

20
16



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

Goals

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

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

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

History



The USAF Counterproliferation Center was established in 1998 at the direction of the Chief of Staff of the Air Force. Located at Maxwell AFB, this Center capitalizes on the resident expertise of Air University, while extending its reach far beyond – and influences a wide audience of leaders and policy makers. A memorandum of agreement between the Air Staff Director for Nuclear and Counterproliferation (then AF/XON), now AF/A5XP) and Air War College Commandant established the initial manpower and responsibilities of the Center. This included integrating counterproliferation awareness into the curriculum and ongoing research at the Air University; establishing an information repository to promote research on counterproliferation and nonproliferation issues; and directing research on the various topics associated with counterproliferation and nonproliferation.

The Secretary of Defense’s Task Force on Nuclear Weapons Management released a report in 2008 that recommended “Air Force personnel connected to the nuclear mission be required to take a professional military education (PME) course on national, defense, and Air Force concepts for deterrence and defense.” As a result, the Air Force Nuclear Weapons Center, in coordination with the AF/A10 (Strategic Deterrence and Nuclear Integration) and Air Force Global Strike Command, established a series of courses at Kirtland AFB to provide continuing education through the careers of those Air Force personnel working in or supporting the nuclear enterprise. The mission was transferred to the Counterproliferation Center in 2012, broadening its mandate to providing education and research to not just countering WMD but also nuclear operations issues.

In February 2014, the Center’s name was changed to the Center for Unconventional Weapons Studies to reflect its broad coverage of unconventional weapons issues, both offensive and defensive, across the six joint operating concepts (deterrence operations, cooperative security, major combat operations, irregular warfare, stability operations, and homeland security). The term “unconventional weapons,” currently defined as nuclear, biological, and chemical weapons, also includes the improvised use of chemical, biological, and radiological hazards.

Highlights

2,750+ 

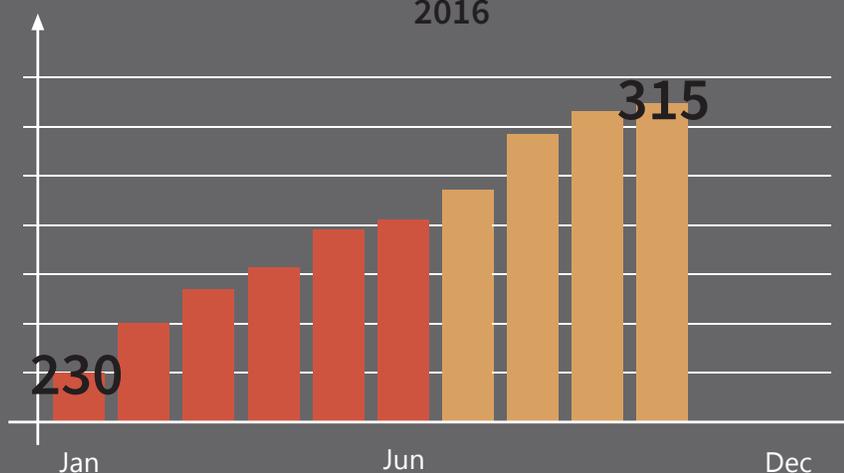
Subscribed to the CUWS Outreach Journal

 2,472 Tweets

FIRST EVER!

Education and Research Summit with eight general officers and senior executive service members

INCREASE IN TWITTER FOLLOWERS
2016



AF Nuclear College

FY 2010 - Present Reached:

- **5,861** Military and civilians participated in the Nuclear Certification Process
- **2,422** Military civilians educated in Nuclear Certified Equipment
- **1,187** Military/civilians educated in Nuclear Management Executive Course
- **1,473** Military/civilians educated in Nuclear Fundamentals
- **598** Military/civilians educated in Advanced Nuclear Concepts
- **181** Senior Leaders, Including 82 General officers/SES, educated in Senior Leader Nuclear Management



110 In resident Nuc 200, Nuc 300 and 400 Nuclear Professional Continuing Education and Nuc Cert Process courses

150 Mobile Training Team Nuclear Management, Nuclear Certification and Certified Equipment Management Courses

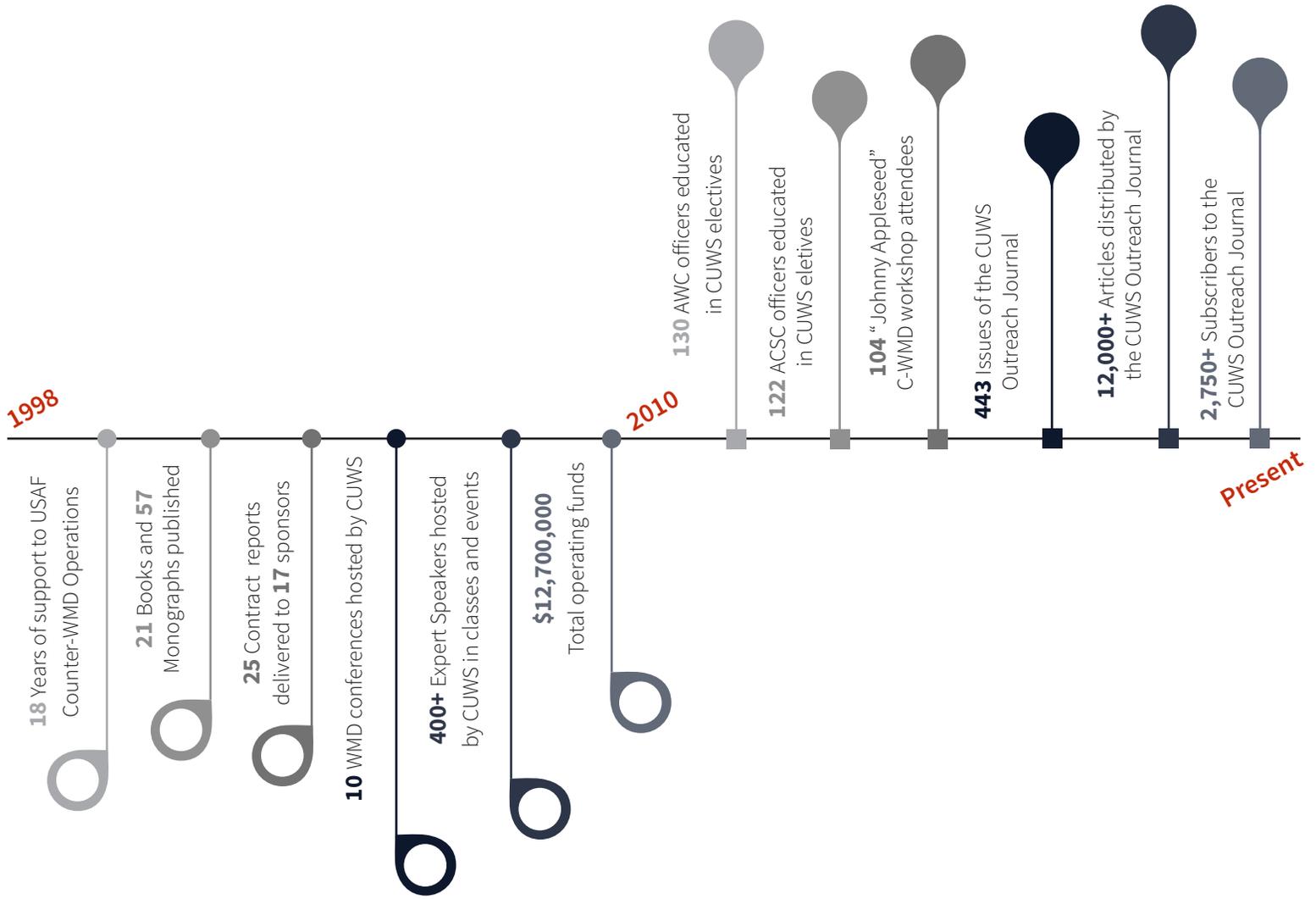


AF Nuclear College

FY 2010 - Present Conducted:

18 YEARS OF TRANSFORMATION

A Timeline of Support and Production



Goal 1: Education

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:

Air War College electives:

- Nuclear Enterprise Issues Research Group (2 terms)
- Developing Counter-WMD Policy and Strategy
- Homeland Security and Defense

Air War College short elective:

- Arms Control and Nonproliferation

Air Command and Staff College electives:

- Life Under the Mushroom Cloud
- WMD
- Black Swans
- Homeland and Security
- The Terrain Walk

Field Trips

HQ Air Staff, Joint Staff, OSD Policy, OSD AT&L, Defense Threat Reduction Agency, State Dept, NNSA, Los Alamos National Laboratory, Oak Ridge National Laboratory, Sandia National Laboratory, Centers for Disease Control, FEMA Region IV headquarters, Center for Domestic Preparedness, Alabama Emergency Management Agency

Professional Continuing Education

(enlisted, officers, and civilians):

- Nuclear Certification Equip User Course: **36** Airmen (additional 2527 by CBT)
- Nuclear Certification Process Course: **250** Airmen (additional 123 by CBT)
- Nuclear Management Course: **201** Airmen
- Nuclear Fundamentals Course (Nuke 200): **232** Airmen
- Advanced Nuclear Concept Course (Nuke 300): **169** Airmen
- Senior Leader Nuclear Management (Nuke 400): **39** Airmen

Workshops and Courses:

- Hosted an Air Force C-CBRN Education, Training, and Exercises workshop, June 2016 at Maxwell AFB (Air Staff, AF/A10S)
- Hosted the Air Force's Nuclear Deterrence and Education Summit, June 2016 at Maxwell AFB (MAJCOM flag officer level)

Expert Speakers:

Dr. Brad Roberts, LLNL
Mr. Eldridge Colby, CNAS
Mr. Jay Tilden, NNSA
Mr. Henry Rolon, U.S. Border Patrol

Brig Gen Fred Stoss, AF Global Strike Command
Col Troy VanBemmelen, U.S. STRATCOM
CDR Quincy Davis, U.S. Coast Guard
Col Robert Rowell, U.S. NORTHCOM

Goal 2: Research

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

Original Research:

- CUWS book, “Chemical and Biological Warfare Overview,” Al Mauroni
- CUWS book, “The Shaping of the United States Biodefense Posture,” LTC Douglas Lewis
- AWC Professional Study Paper, “Ensuring Strategic Stability in the Second Nuclear Age,” Lt Col Robert Ewers (AY15 Horner Award)
- ACSC paper, “Extending the US Nuclear Deterrence Umbrella to the Middle East,” Maj Allen Cohen (AY15 Miller Award)
- Eight electronic journal articles published on the internet (“War on the Rocks”)

Information Repository:

- Maintaining information repositories on web site – one for all CUWS Outreach Journals and one for selected govt/public documents on US nuclear deterrence operations

Goal 3: Outreach

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 2,750+ recipients across the national security enterprise – average 30 stories per journal, weekly distribution
- Continuing CUWS Video – AUTV 300 broadcasts over the year (2 videos shown 3 times a week) on nuclear and other WMD-related topics for AU faculty and students
- Growing Twitter presence (267 followers), supporting DoD and AF outreach effort

External Engagement

- Participated in 2015 USSTRATCOM Strategic Deterrence Symposium
- Participated in AFGSC Strategic Vigilance 2015 Wargame
- Participating in 2016 NDU CSWMD Counter-WMD Symposium
- Hosted the first Air Force Deterrence Education and Research Summit



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at The Air University

CUWS



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