



Academic Year (AY) 2009

RESEARCH BULLETIN

Air University Commander's Welcome

By Lt Gen Allen G. Peck

Air University (AU) exists for the benefit of the nation as the intellectual and leadership center of the Air Force. Its mission is to provide the full spectrum of Air Force education—from pre-commissioning to the highest levels of professional military education (PME), including degree-granting and professional continuing education for officers, enlisted, and civilian personnel. The university's PME programs educate Airmen and its other joint, civilian, and international students on national and world security issues with a special focus on the capabilities and roles of air, space, and cyberspace power in those environments. They focus on the knowledge and skills needed to develop, employ, and command air, space, and cyber power at the highest levels. As part of this educational process, AU conducts relevant, responsive, and forward-thinking research in the global war on terror, homeland defense, force development, the nuclear enterprise, intelligence, technology, strategic planning, cyberspace, as well as history and lessons learned.

Each year we ask senior leaders within the Interagency, Department of Defense, Air Force, major commands, combatant commands, and other Services to provide topics that are of interest to them, their commands, and the broader national security community. For Academic Year (AY) 2009, on which this ninth *Air University Research Bulletin* reports, we received over 750 prioritized research topics. Likewise, since the spring of 2009 we received over 540 topics on which many in the Class of 2010 are currently researching. I thank the contributors for their efforts, which allow the AU in-residence colleges to build their research agendas around those critical issues. Those important topics became the subject of much of the research accomplished by the students of Air War College (AWC), Air Command and Staff College (ACSC), School of Advanced Air and Space Studies (SAASS), and the Air Force Fellows (AFF) who are assigned to leading civilian universities and think tanks. When complete, AU provides the research paper to the sponsors in the hope it will be useful and with the expectation for feedback to continue improving our university's research engagement with senior civilian and military leaders.

Air University graduates of the Class of 2009 generated more than 500 high-quality research products that met or exceeded their institutions' standards for publication or posting on the Internet. This *Bulletin* includes those research titles, identifies the award-winning papers, and also highlights the contributions of the Air University's military and civilian faculty. The entries are organized by topical categories (as listed under "Contributions by AU Faculty and Graduates" within the insert at left). All of AU's research can be viewed and downloaded online at the Air University Research Information Management System (AURIMS) site at: <https://www.afresearch.org>.

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The *AU Research Bulletin* is distributed throughout the national security community in print form and is also available electronically at <https://www.afresearch.org/>

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Research at Air University

By Gen John A. Shaud (USAF, Ret), AU Dean of Research and director, Air Force Research Institute

Our goal at AU is to be the premier source of advanced air, space, and cyberspace research for the United States Air Force. During the past year, the CSAF formally established the Air Force Research Institute (AFRI) as an agency at the university level that will serve as a focal point for tackling the significant research issues that challenge the Air Force and the nation now and in the future. In addition, AU has outstanding faculties, students, and professional researchers on our campus at Maxwell AFB, as well as the Air Force Institute of Technology at Wright-Patterson AFB (WPAFB), who play key roles in AU's efforts.

This group of professionals brings together academic credentials in science, technology, and the arts coupled with combat experience in military aviation and support areas that are unparalleled anywhere else in the world. They bring in many unique air, space, and cyberspace experiences ranging from special forces in irregular warfare to the nuclear enterprise. This experience base contributes immeasurably to the quality of AU research.

The *Research Bulletin* is an example of AFRI's mission of research, outreach, and engagement (ROE). It is the *outreach* document that publicizes AU's *research* on important topics solicited through our *engagement* with senior civilian and military leaders. Our primary objective in publishing the annual *Research Bulletin* is to recognize the best of these research accomplishments. Accordingly, we highlight faculty and student research, the latest AU Press publications, and the activities of AU's specialized research and educating centers.

This publication's goal is to engage the larger national security community and foster communication about a broad range of matters related to research at AU. It is also designed to help promote increased recognition of an important dimension of AU's service to the Air Force and the rest of the defense community.

AFIT Research Program

By Dr. Heidi R. Ries, PhD, AFIT Dean for Research

Research at AU includes both technological research, undertaken primarily at the Air Force Institute of Technology at WPAFB in Dayton, Ohio, and research on doctrine, strategy, and the art of war conducted at the schools at Maxwell AFB, Alabama.

Research accomplishments of AFIT's faculty and resident graduate students at WPAFB are reported separately from this *AU Research Bulletin* in the *AFIT*

Graduate School of Engineering and Management's Annual Report, Research Report, and Research News.

Electronic versions of these publications are available at <http://www.afit.edu/en/enr/index.cfm>. Award-winning accomplishments are included in these publications as well. Questions may be addressed to research@afit.edu.

Air Force Research Institute

By Dr. Dale Hayden, AFRI Deputy Director

The Air Force Research Institute conducts independent research, outreach, and engagement to enhance national security and ensure the effectiveness of the US Air Force. AFRI also advances the theory and application of air, space, and cyberspace power through scholarly analysis, professional journals, printed and electronic media, and collaborative projects. In support of these objectives, we perform a number of missions. First, AFRI takes on assignments and generates ideas related to air, space, and cyberspace that are developed and disseminated via a variety of research products. AFRI employs Air University's only full-time researchers and the Air University Press. The latter comprises content/technical editors, layout specialists, and design artists who adroitly polish research products into professional reading materials and electronic media. Second, AFRI manages and publishes three Air Force flagship outreach publications: *The Strategic Studies Quarterly (SSQ)*; the *Air and Space Power Journal (ASPJ)*; and *The Wright Stuff (TWS)*. The *SSQ* is a refereed journal of ideas and issues that serves the greater defense community through scholarly debate about warfare, strategy, national and international security, and defense policy. *ASPJ*, since 1947, continues to serve as an institutional forum for exchanging ideas about operational airpower and other matters relating to national defense. It is now published in six languages (English, Arabic, Chinese, French, Spanish, and Portuguese) and distributed to more than 90 countries, worldwide. *The Wright Stuff*, with more than 30,000 subscribers, worldwide, is an Air University electronic forum published twice per month to disseminate ideas and promote AU-generated products. Third, AFRI facilitates the research of students and faculty assigned to Air University graduate-level colleges by managing the AU Commander's Research Board process, the annual Call for Topics, and associated research management database and Web sites. Research Support falls under the AFRI Discourse division that also includes a new engagement branch charged with hosting and co-hosting or sponsoring conferences on behalf of the AU commander or AFRI

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director. In addition, Discourse also manages the electronic journals branch that formats and posts AU faculty and student research papers online for future reference and publishes the annual *AU Research Bulletin* to document each year's research activities. Of note, AFRI also networks with other DOD research centers and staff agencies to provide both a stimulus for original research and multiple venues for disseminating/sharing key air, space, and cyberspace power ideas. It is through these richly diverse resources, programs, and services that the Air Force Research Institute generates and delivers high-quality intellectual throw weight in the key areas of research, outreach, and engagement.

AFRI Research and Publication Opportunities

By Dr. Daniel Mortensen, AFRI Dean

AFRI Papers and *Quick Looks* are occasional publications sponsored by the Air Force Research Institute. All are dedicated to promoting understanding of air, space, and cyberspace power theory; doctrine; and application. These studies are published by AU Press and are broadly distributed to the USAF, the Joint Staff and Joint Commands, DOD, and other governmental organizations, sister-service PME schools, selected universities, military and civilian think tanks, and leading scholars. All publications are available on the AU Research Information Management System at <https://www.afresearch.org/> or on the AU Press electronic site at <http://aupress.au.af.mil/>. The current series is also generally available in hard copy from the AU Press.

CSAF and Senior AF Leaders Commission AFRI Research

Originally conceived to provide independent analysis of a wide range of issues related to airpower theory, doctrine, and employment, *AFRI Papers* now emphasize concepts of operations as well. The purpose of the papers is to provide research products that will underwrite mature decision making by the Air Force and joint war fighters, as well as support education, doctrine development, and research at AU.

In addition, AFRI researchers prepared briefings for high-level decision makers and wrote dozens of journal articles, with many published in several foreign languages. AFRI solicits and edits publications to further the research agenda

The following are samples of AFRI publications in AY 2009:

1. Dr. Colin S. Gray, *Understanding Airpower: Bonfire of the Fallacies*
2. Dr. David Ian Hall, *Learning to Fight Together: The British Experience with Joint Air-Land Warfare*
3. Lt Col Clint Hinote, *USAF Centralized Control and Decentralized Execution: A Catchphrase in Crisis*
4. Dr. Vicki Rast, *Pantheon of Air, Space, and Cyberspace Power Thinkers*
5. AFRI Research Study, *USAD Strategic Concept for 2018–2023*
6. SMSgt Leslie Bramlett, *Lights, Camera, Action: Getting Back to the Basics*

Quick Looks and Blue Darts

Air University produces two types of short-impact papers. The first, used mostly by staff researchers assigned to AFRI, are one- to two-page papers, called *Quick Looks* (QL). QLs help analysts and researchers conceptualize their ideas. With selective distribution, they gain feedback to guide continuing research. These short products are written early in the writing process and follow an established formula: they identify a problem or issue, provide a short historically-based background-type discussion, and they provide actionable recommendations in bullet format. Supplementing QLs, but written at the completion of a research project or paper, are Air University *Blue Darts* (BD). BDs are written in the style of an opinion/editorial (Op-Ed) piece—to pass along one's opinion and to entice readers to follow up by reading the completed research paper, article, or book. BDs are limited to 750 words and targeted to the greater media audience. The AU/CC has directed that all research submissions greater than 19 pages in length will be accompanied by a publishable *Blue Dart*. These Op-Ed pieces are sent to interested parties, including paper sponsors, and also selectively appear in *The Wright Stuff*, AU's electronic newsletter (biweekly).

Publication Opportunities

All faculty and students assigned to AU, as well as individuals throughout the Air Force, are invited to submit unclassified manuscripts to AFRI for publication consideration. Manuscripts should pertain to USAF and airpower doctrine, strategy, concepts of operations, and items of particular interest to the leadership of the Air Force and other primary decision makers.

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AY 2009 Fellows and Intern Programs

By Lt Col Diane Ficke, Director, Air Force Fellows

Each of AY 2008–2009 Air Force Fellows (AFF) had a major impact on the military, academia and industry as well as the executive and legislative branches of government. In their role as “Air Force ambassadors to their respective institutions, the Fellows skillfully provided defense insights on a wide spectrum of issues ranging from national security policy, cutting-edge technology to doctrine. Their involvement included:

- Participating in national security forums and working groups
- Providing media interviews, lectures, and speeches
- Hosting seminars, workshops, and war games

Air Force Fellows also had unique access to senior civilian and military leaders across the globe. This enabled them to increase their national security policy or DOD/Air Force doctrinal expertise in addition to the opportunity to broaden their leadership skills while championing Air Force capabilities and influencing future policy initiatives across all services. Finally, their professionalism and dedication greatly strengthened defense partnership with the academic, industry, and policy communities.

In addition, each AFF also conducted cutting-edge research on issues vital to national security, impacting the implementation of doctrine as well as future questions relating to the fast pace of cutting-edge technology development inside and outside the DOD. Their research represented significant scholarly advancement of thought on crucial defense policy and strategy developments. Furthermore, their evaluation of processes and policy proved invaluable to future US national security issues. Finally, AFFs were also instrumental in furthering work undertaken by prestigious private research institutions, academic institutions, centers of excellence like the Brookings Institution and the Weatherhead Center for Strategic and International Studies, Harvard University; federally funded research and development centers such as RAND; Department of Energy (DOE) Labs at Oak Ridge, Los Alamos, Argonne, and Livermore, and various SECDEF corporate fellowships at *Fortune* 500 industry organizations.

For the fifth year in a row, the 2009 AFF program honored the top three research papers with the coveted Walker Series award. The Walker Series is dedicated to Brigadier General Kenneth Walker and recognizes the contributions each Fellow has made to research supporting air, space, and cyberspace power. The 2008/2009 Walker Award winners are listed in the section (p. 8) highlighting all student award papers for AY08.

→ The research support team at AFRI posts graduate papers and other publications on the Air University Research Information Management System (AURIMS). AURIMS allows AU to quickly post to the public research Web site all unclassified papers that meet school standards for publication an AU security and policy review. You are invited to visit that site, which contains over 5,364 research studies consisting of papers, monographs and books—the best of AU research!

→ AURIMS is available 99.9% of the time, 24 hours a day and seven days a week from any commercial or military Internet connection. Our data indicates approximately 20,000 people visit AURIMS annually. By contrast, *Chronicles Online Journal* will experience about 15 million hits in that same time period. AURIMS, *Air and Space Power Journal*, *Chronicles Online*, *Strategic Studies Quarterly*, and *The Wright Stuff* are all important and valuable sources for timely and insightful information on air, space, and cyberspace.

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Disclaimer: Opinions, conclusions, and recommendations expressed or implied within are solely those of the authors and do not necessarily represent the views of Air University, the United States Air Force, the Department of Defense, or any other US government agency. Cleared for public release: distribution unlimited.

Contributions by AU Faculty

Global War on Terror, Homeland Defense, and Other Urgent/Current Issues

Produced by, Sponsored by/Publication Venue

Assymmetric Air War: Ethical Implications

By Dr. Mark Conversino (Th. A. van Baarda and
D. E. M. Verweij)

*AWC, Chapter in "The Moral Dimension of
Asymmetrical Warfare"*

Really Soft Power

By Dr. Gary Schaub

*AWC, Op-Ed in the New York Times and the
Pittsburgh Post-Gazette*

Warfighting and Operational Issues

Produced by, Sponsored by/Publication Venue

AU-18 Space Primer

By Maj Jon Lowe

ACSC, Air University Press

The Baby, the Bathwater, and Effects Based Operations

By Dr. Steve Chiabotti

SAASS, Article in Joint Forces Quarterly

Irregular Warfare

By Dr. James Kiras

SAASS, Chapter in Understanding Modern Warfare

Irregular Warfare Is Warfare

By Col Kenneth Coons

AWC, Article in Joint Forces Quarterly

Kalashnikov Culture: Small Arms Proliferation and Irregular Warfare

By Dr. Christopher Carr

AWC, Praeger

Retain the Air Force, Abolish Anti-Jointness

By Col Rob Ehlers

SAASS, Article in The Wright Staff

Force Development

Produced by, Sponsored by/Publication Venue

The 52nd Floor: Thinking Deeply about Leadership

By Dr. James Parco

ACSC, Enso Books

A Question of Faith: Religious Bias and Coercion Undermine Military Leadership and Trust

By Dr. James Parco

ACSC, Article in Armed Forces Journal

Concepts in Leadership

By Dr. Steve Chiabotti

*SAASS, Chapter in Heterogeneous Engineering and
JPATS: Leadership, Logic and Acquisition
Requirements*

Embracing Ambiguity: Creating Portals to Enactment and Creativity

By Dr. James Parco

*ACSC, Article in Leadership and Organizational
Management Journal*

Four Star Civilians

By Dr. Gary Schaub

AWC, Article in the Wright Staff

Improving JPME through Interschool Collaboration

By Dr. Bert Frandsen

AWC, Article in Joint Forces Quarterly

Intolerable Tolerance: The Problem with Diversity Training in the Military

By Dr. James Parco

ACSC, Article in Armed Forces Journal

Senior Developmental Education: A Bridge Too Far

By Dr. Gary Schaub

AWC, Article in the Wright Staff

Intelligence, Technology, and Combat Support

Produced by, Sponsored by/Publication Venue

A Multitrait-Multimethod Analysis of the End User Computing Satisfaction and Computer Self-Efficacy Instruments

By Lt Col Michael Masterson

*AWC, Chapter in End-User Computing: Concepts,
Methodologies, Tools, and Applications*

Address the Schlesinger Report

By Mr. Mark Stout

AWC, Article in The Wright Staff

An Airman's View of United States Air Force Airpower

By Dr. Stephen Wright

SAASS, Article in Air and Space Power Journal

Contributions by AU Faculty

The Nomological Network and the Research Continuum

By Lt Col Michael Masterson
ACSC, Chapter in Encyclopedia of Information Science and Technology, Second Edition, IGI Global

Strategy, Strategic Planning, and Security Studies

Produced by, Sponsored by/Publication Venue

America's Last ICBM: Why Now is the Worst Time to Eliminate Land-Based ICBMs

By Col Brett Morris
ACSC, Online Article in The Wright Stuff

Astropolitics and Astropolitik: Strategy and Space Deployment

By Dr. Everett Doman
SAASS, Chapter in "Harnessing the Heavens: National Defense through Space"

Climate Change, National Security, and the Quadrennial Defense Review: Avoiding the Perfect Storm

By Dr. John Ackerman
ACSC, Article in Strategic Studies Quarterly

Fashioning Integrated Security Forces after Conflict

By Dr. Stephen Burgess
AWC, Article in African Security

India and the IPL: Cricket's Globalized Empire in the Round Table

By Dr. Amit Gupta
AWC, Article in the Commonwealth Journal of International Affairs

India's Military Aviation Market: Opportunities for the United States

By Dr. Amit Gupta
AWC, Article in Strategic Studies Quarterly

Making Twenty-First-Century Strategy: An Introduction to Modern National Security Processes and Problems

By Dr. Charles Costanzo
ACSC, Article in Air & Space Power Journal

Negotiation, Exclusion and Durable Peace: Dialogue and Peacebuilding in Tajikistan

By Dr. Jonathan Zartman
ACSC, Article in International Negotiation, Vol. 13, No. 1

Obama's "Eisenhower Moment": American Strategic Choices and the Transatlantic Defense Relationship

By Dr. Edwina Campbell
ACSC, Chapter in "Die Aussenpolitik der USA: Praesident Obamas neuer Kurs and Die Zukunft der Transatlantischen Beziehungen. [The Foreign Policy of the United States: President Obama's New Direction and the Future of Transatlantic Relations]

The Process and Politics of Defense Acquisition

By Dr. David Sorenson
AWC, Praeger

The Six Party Talks and the Future Denuclearization and Rehabilitation of North Korea

By Dr. Lawrence Grinter
AWC, Article in Pacific Focus

Stabilization, Peacebuilding, and Sustainability in the Horn of Africa

By Dr. Stephen Burgess
AWC, Article in Strategic Studies Quarterly

Stay Out: Why Intervention Should Not Be America's Policy

By Dr. Jim Forsyth
SAASS, Article in Strategic Studies Quarterly

US Africa Command

By Dr. Stephen Burgess
AWC, Article in Contemporary Security Policy

US National Security Strategy and the Next Administration

By Col Bill Tulley
AWC, Article in the Wright Stuff

Doctrine; Air, Space, and Cyberspace Power; History and Lessons Learned

Produced by, Sponsored by/Publication Venue

A General Airman: Millard Harmon and the South Pacific in WWII

By Dr. Tom Hughes
SAASS, Article in Joint Forces Quarterly

A Legacy of Service and Cooperation

By Dr. Roy Houchin
AWC, Article in Quest (Quarterly Space Journal)

The Berlin Crisis: One Unit's Story

By Dr. Michael Weaver
ACSC, Article in On Guard Magazine

Contributions by AU Faculty

Continuity and Change in the Historical Landscape of Mount Kilimanjaro: The Rau forest and Ashira Parish

By Lt Col Robert Munson
ACSC, Article in Culture, History and Identity: Landscapes of Inhabitation in the Mount Kilimanjaro Area, Tanzania: Essays in Honour of Paramount Chief Thomas Lenana Mlanga (Archaeological Reports International Series)

The Wrong Lessons Learned and Future Strategic Choices in the Western Balkans

By Dr. Jim Seroka
AWC, Article in Western Balkans Security Observer, Number 9–10 (April –September 2008)



Corps Commanders of the Bulge

By Dr. Harold Winton
SAASS, Kansas

Do We Want to “Kill People and Break Things” in Africa? A Historian’s Thoughts on Africa Command

By Lt Col Robert Munson
ACSC, Article in Strategic Studies Quarterly, vol. 2, No. 1

From Berlin to Baghdad: America’s Search for Purpose in the Post-Cold War World

By Dr. John Reese
ACSC, Article in Air Power History

It's Time to Rethink Sponsored Research

By Dr. Richard Muller
SAASS, Article in The Wright Stuff

In Search of Allies. Intelligence Assessments by Austrian Military Attaches 1933–1938

By Dr. Alexander Lassner
AWC, Article in Journal for Intelligence, Propaganda and Security Studies

Japan's Decision for War in 1941: Some Enduring Lessons

By Dr. Jeffrey Record
AWC, Monograph (Strategic Studies Institute)

The Luftwaffe over Germany

By Dr. Richard Muller
SAASS, Greenhill

Resurrecting the "Icon" The Enduring Relevance of Clausewitz's *On War*

By Dr. Nikolas Gardner
AWC, Article in Strategic Studies Quarterly

Targeting the Third Reich: Air Intelligence and the Allied Bombing Campaigns

By Col Rob Ehlers
SAASS, Kansas University Press

Understanding Modern War

By Dr. James Kiras
SAASS, Cambridge



Award-Winning Authors

Author (School-Advisor)
Title
Award(s)
 - Award Sponsor
 Publishing Venue



Lt Col Christopher Atteberry, USAF
(AFF–Dr. Stephen Wright)
Overcoming Inertia: Building Human Capital for Interagency Success
Brigadier General Kenneth Walker Award
 - Walker Series

Lt Col Brad Bredenkamp, USAF
(AWC–Dr. Stephen Burgess)
Taking the Long View towards the Long War: Equipping General Purpose Force Leaders with Soft Power Tools for Irregular Warfare
AWC Excellence Award
 - Air University Foundation

Col James Dawkins, USAF
(AWC–Blue Horizons Project)
Rising Dragon: Deterring China in 2035
Douhet-Mitchell International Airpower Trophy
 - Order Sons of Italy in America (OSIA)

Lt Col Kevin Dixon, USAF
(AFF–Ms. M. Dee Taylor)
Equipping Network Warfare: Industrial-Era Bureaucracies for Information-Age Weapons
Brigadier General Kenneth Walker Award
 - Walker Series

Lt Col Glen Downing, USAF
(AWC–Col Al Lowry)
Missile Defensive Systems and the Civil Reserve Air Fleet
Global Reach Award
 - Airlift/Tankers Association

Col William Eldridge, USAF
(AFF–Dr. Barry Schneider)
The Credibility of America’s Extended Nuclear Deterrent: the Case of the Republic of Turkey
Brigadier General Kenneth Walker Award
 - Walker Series

Lt Col Arthur Ford, USAF
(SAASS–Maj Ian Bryan)
Denting the Hub, or Strengthening the Spokes? A Neoclassical Realism Analysis of New Security Trends in the Pacific
Best SAASS Security Studies Thesis
 - Air University Foundation

Maj Paula Grant, USAF
(ACSC–Lt Col Parco)
The Need for (More) New Guidance Regarding Religious Expression in the USAF
Leadership, Command, and Communications Studies Award
 - Dean of Education

Lt Col William Grund, USAF
(AWC–Dr. George Stein)
A Cyberspace Command and Control Model
Air Force Cyber Award
 - Eighth Air Force

Maj Gregory Kreuder, USAF
(SAASS–Dr. Richard Muller)
Lieutenant General “Pete” Quesada and Generalfeldmarschall Wolfram von Richthofen: What Made Great?
Best SAASS Leadership and Ethics Thesis
 - First Command

Maj Ryan Link, USAF
(SAASS–COL Robert Ehlers)
Dragooned into a Joint War: American Airpower in the Mediterranean and Operation Dragoon
Best SAASS History Thesis
 - Air Force Historical Foundation

Maj Leigh C. Matanov - USAFR
(ACSC–Ms. Abdul Hamid)
Combating Terrorism via the Womb: Empowering Iraqi Women
Col Gail “Candy Bomber” Halvorsen Cultural Studies Award
 - Dean of Education

Lt Col David Mason, USAF
(AWC–Blue Horizons Project)
Directed Energy Weapon System for Ballistic Missile Defense
General Charles A. Horner Award
 - USAF/CPC

Maj Kevin Massie, USAF
(ACSC–Col Morris)
Bombs from on High: Weaponized Stratospheric Airships for Close Air Support and Time-Sensitive Target Missions
Commandant’s Award for Research Excellence
 - ACSC Commandant

Award-Winning Authors

Col Paul McAneny, USAF
(AWC–Lt Col Michael Masterson)
Red is Good: Transformational Changes for US Air Force Aircraft Maintenance
Lt General John Nowak Award for Logistics
 - Lt Gen Nowak

Maj Timothy Missler, USMC
(ACSC–Dr Frandsen)
Theater JFACC Construct: Creating Disunity of Command
Joint Warfare and Air & Space Operations Award
 - Dean of Education

Col Patrick Owens, USAF
(AWC–Blue Horizons Project)
Biodefense and Deterrence: A Critical Element in the New Triad
Thomas "Dutch" Miller Award
 - USAF/CPC

Col John Pearse, USAF
(AWC–Blue Horizons Project)
Officer Education: Preparing Leaders for the Air Force of 2035
Military Officers Association of America Leadership Award
 - MOAA

Lt Col William Pinter
(AWC–Gp Capt Raymond Goodall)
Air-Ground Integration in the 21st Century: Improving Air Force Combat Capabilities and Theater Command and Control for Major Combat
Red River Valley Fighter Pilots Association Award
 - Air University Foundation

Col Joseph Scherrer, USAF
(AWC–Dr George Stein)
A Cyberspace Command and Control Model
Air Force Cyber Award
 - Eighth Air Force

Col Frank Simcox, USAF (ACSC–Dr. George Stein)
Flexible Options for Cyber Deterrence
Homeland Security Award
 - US Northern Command

Lt Col Thomas Steele, USAF
(AWC–Mr. Mark Stout)
Evolved Expendable Launch Vehicles (EELV) for Operationally Responsive Space
Air Force Space Command Award
 - AF Space Command

Lt Col Paul Wade, USAF
(AWC–Col Peter Huggins)
Stop the Insanity: Halt NATO Enlargement to Salvage Relations with Russia
General Charles G. Boyd Award
 - Air University Foundation

Maj William Walpert, USAF
(SAASS–COL Robert Ehlers)
Actionable Intelligence: Holy Grail or Trojan Horse?
Best SAASS Technology, Space, or Cyberspace Thesis
 - Air University Foundation



Contributions by Graduates — AY 2009

Global War on Terror, Homeland Defense, and Other Urgent/Current Issues

Produced by, Sponsored by

Abandoning the Battleship: The Asymmetric Ground Defense of Air Power

By Maj Chris DeGuelle

ACSC

Advantage Narcotraffickers: Mitigating the Threat of the Self-Propelled Semi-Submersible Platform

By Col Kennedy Bryan, USAFR

AWC

AFRICOM: Can America's Newest Combatant Command Stabilize Africa Using a Strategy of "Sunshine and Love"?

By Maj Lester Oberg

ACSC

Aligning United States and Chinese Space Policies

By Lt Col Brendan Lewis, USAFR

Air Force Fellows

America's Conditional Advantage: Airpower, Counterinsurgency, and the Theory of John Warden

By Maj Anthony Carr

SAASS

An Indirect Strategy for Sanctuary Defeat: Addressing Pakistan's Regional Security Concerns

By Maj Neil Anderson

ACSC

Breaking the Code: A Behavioral Assessment of the Patani United Liberated Organization (PULO) in Southern Thailand

By David Boyle

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ACDIS	Arms Control Disarmament & International Security (University of Illinois at Urbana-Champaign)
ACSC	Air Command and Staff College (Air University)
AFF	Air Force Fellows
AFDDEC	Air Force Doctrine Development and Education Center (Air University)
AFIT	Air Force Institute of Technology (Wright-Patterson AFB)
AFRC	Air Force Reserve Command
AFRI	Air Force Research Institute (Air University)
ANG	Air National Guard
ARC	Air Reserve Component
ASPJ	<i>Air and Space Power Journal</i> (Air University)
AURIMS	Air University Research Information Management System
AWC	Air War College (Air University)
COIN	Counterinsurgency
CPC	Counterproliferation Center (within Air University's Air War College)
CSAT	Center for Strategy and Technology (within Air University's Air War College)
DARPA	Defense Advanced Research Projects Agency
FDT	Foreign Affairs, Defense Trade Division (Library of Congress, Washington DC)
FIU	Florida International University
GWOT	Global War on Terror
IDA	Institute of Defense Analyses (Alexandria VA)
INSS	Institute of National Security Studies (USAF Academy CO)
ISCIIP	Institute for the Study of Conflict, Ideology, and Policy (Boston University)
ISD	Institute for the Study of Diplomacy
J5	Joint Staff, Plans Division
JFCOM	Joint Forces Command (Norfolk VA)
MIT	Massachusetts Institute of Technology
NCO	Network Centric Operations
PIRP	Program on Information Resources Policy (Harvard)
PLA	Palestine Liberation Army
QCIR	Center for International Relations, Queens University
SAASS	School of Advanced Air and Space Studies (Air University)
SF&RD	Strategy, Forces and Resources Division (IDA, Alexandria VA)
SOCOM	Special Operations Command
SSP	Security Studies Program (MIT)
SSQ	<i>Strategic Studies Quarterly</i> (Air University)
STRIACC	Strategic Interagency Coordination Center
SAIS	School of Advanced International Studies (Johns Hopkins)
TRADOC	Training and Doctrine Command (US Army)
TWS	<i>The Wright Stuff</i> (Air University)
USEUCOM	United States European Command
USAFE	United States Air Forces, Europe
USNC	United States Navy War College (Newport RI)
USAFA	United States Air Force Academy (Colorado Springs CO)
WCFIA	Weatherhead Center for International Affairs (Harvard)

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