



Academic Year (AY) 2008

# RESEARCH BULLETIN

## Air University Commander's Welcome

By Lt Gen Allen G. Peck

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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 I 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) 2008, on which this eighth *Air University Research Bulletin* reports, we received over 656 prioritized research topics. Likewise, since the spring of 2008 I received over 950 topics on which many in the Class of 2009 are currently researching. I thank the contributors for their efforts, which allows 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 2008 generated more than 450 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/>

## AU Research Bulletin – AY 2008

### 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 bring 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/ResearchNews.cfm>. Award-winning accomplishments are included in these publications as well. Questions may be addressed to [research@afit.edu](mailto:research@afit.edu).

### Air Force Research Institute

*By Col Michael D. Davis, AFRI Operations 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 director. In

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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 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 Chief of Research

*AFRI Papers* (previously published as *CADRE 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 warfighters, as well as support education, doctrine development, and research at AU.

Two *AFRI Papers* were published in AY 2008:

1. Maj Gen Charles J. Dunlap, Jr., USAF, *Shortchanging the Joint Fight: An Airman's Assessment of FM 3-24 and the Case for Developing Truly Joint COIN Doctrine*

2. Colin S. Gray, *The Airpower Advantage in Future Warfare: The Need for Strategy*

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.

#### 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 (OpEd) 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 OpEd 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.

### AY 2007 Fellows and Intern Programs

By Ms. M. Dee Taylor, Chief, Air Force Fellows

Each of AY 2007-2008 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 military ambassadors to

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their respective institutions, the Fellows skillfully provided defense insights on a wide spectrum of critical national security policy, cutting-edge technology, or doctrinal issues. 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 to their intra- and extra-institutional involvement, 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 represents significant scholarly advancement of thought on crucial defense policy and strategy developments. Furthermore, their evaluation of processes and policy is 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 (FFRDC) such as RAND; Department of Energy (DOE) Labs at Oak Ridge, Los Alamos, Argonne and Livermore, and Fortune 500 industry organizations such as CISCO Systems based in San Jose CA, Amgen Inc located in Thousand Oaks CA, and Boeing in St Louis MO.

For the fourth year in a row, the 2008 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 and its use in the implementation of US strategic policy and cutting-edge research in the areas of futures technologies. The 2007/2008 Walker Award winners are listed in the section (p. 9) 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.

### Co-editors:

Col Larry Carter (USAF, Ret.)  
Mrs. Johnalyn E. Whaley

### Technical Editor and Layout:

Mrs. Mary Moore  
Ms. Catherine Parker

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## Contributions by AU Faculty

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

*Produced by, Sponsored by/Publication Venue*

#### **Kalashnikov Cultures**

By Dr. Christopher Carr  
*AWC, Greenwood Press*

#### **Planning for Failure in Iraq**

By Lt Col Thomas Williams  
*ACSC, The Wright Stuff*

#### **Political Islam and Radical Islam**

By Dr. Steve Burgess  
*AWC, Book Chapter in "Know Thy Enemy II"*

#### **Small Arms Proliferation and Terrorism**

By Dr. Christopher Carr  
*AWC, Book Chapter in "Countering Terrorism and  
Insurgency in the 21<sup>st</sup> Century"*

### Warfighting and Operational Issues

*Produced by, Sponsored by/Publication Venue*

#### **Suicide Terrorism: Are There Important Counterterrorism Lessons to be Learned**

By Dr. James Winkates  
*AWC, Chapter in "Know Thy Enemy II"*

#### **Back to Basics: Tradition in Future Warfare**

By CDR Carl Forkner, USN  
*AWC, USNI Proceedings*

#### **Fashioning Integrated Security Forces After Conflict**

By Dr. Steve Burgess  
*AWC, Book Chapter in "African Security Review"*

#### **Satellite Shoot-down Myths**

By Mr. Mark Stout  
*AWC, The Wright Stuff*

#### **Selling US Space Power Short**

By Dr. John Sheldon  
*SAASS, The Space Review*

### Force Development

*Produced by, Sponsored by/Publication Venue*

#### **A Deeper Shade of Blue: The School of Advanced Air and Space Studies**

By Dr. Stephen Chiabotti  
*SAASS, Joint Forces Quarterly, Issue 29*

#### **Anthropocentric Natural Law and Its Implications for International Relations and Armed Conflicts**

By Dr. Howard Hensel  
*AWC, Chapter in "The Legitimate Use of Military  
Force"*

#### **Introduction and Conclusion**

By Dr. Howard Hensel  
*AWC, Chapters in "The Legitimate Use of Military  
Force"*

#### **Recapitalizing the Air Force Intellect: Essays on War, Airpower, and Military Education**

By Professor Dennis Drew  
*SAASS, AU Press*

#### **The Rejection of Natural Law and Its Implications for International Relations and Armed Conflicts**

By Dr. Howard Hensel  
*AWC, Chapter in "The Legitimate Use of Military  
Force"*

#### **Theocentric Natural Law and Just War Doctrine**

By Dr. Howard Hensel  
*AWC, Chapter in "The Legitimate Use of Military  
Force"*

### Intelligence, Technology, and Combat Support

*Produced by, Sponsored by/Publication Venue*

#### **Biofuels: An Alternative to U.S. Air Force Petroleum Fuel Dependency**

By Col John Geis (with Mark S. Danigole)  
*AWC, Monograph*

#### **Meeting the Army's Equipping Challenge**

By COL Jim Campbell  
*AWC, AF Journal of Logistics, Vol XXXI, No 4, Winter  
2007/08*

#### **Trends in Commercial Aviation and its Effect on CRAF**

By Lt Col Timothy Farquhar  
*ACSC, The Wright Stuff*

### Strategy, Strategic Planning, and Security Studies

*Produced by, Sponsored by/Publication Venue*

#### **An Introduction to the Modern Middle East. History, Religion, Political Economy, Politics**

By Dr. David Sorenson  
*AWC, Westview Press*

## Contributions by AU Faculty

### **‘Anchor States’ in U.S. Africa Policy and the ‘Big States’ Controversy**

By Dr. Steve Burgess

*AWC, Journal of African Policy Studies*

### **Australia and Strategic Stability in Asia**

By Dr. Amit Gupta

*AWC, Chapter in “Strategic Stability in Asia”*

### **Balancing Act: Australia’s Strategic Relations with China and the United States**

By Dr. Adam Cobb

*AWC, The Wright Stuff*

### **China’s Emerging Role**

By Dr. David Lai

*AWC, Chapter in “Strategic Stability in Asia”*

### **Civil-Military Relations in North Africa**

By Dr. David Sorenson

*AWC, Middle East Policy*

### **The Evolution of NATO Command Structures in the 1990s**

By Dr. Stephen “Wilbur” Wright

*SAASS, Bison Paper 11, Winnipeg, Manitoba, Canada: Centre for Defence and Security Studies*

### **Hubris, Myopia and Strategy**

By Professor Dennis Drew

*SAASS, Wright Flyer, AU Press*

### **India and South Asia**

By Dr. Steve Burgess

*AWC, Book Chapter in “Indian Foreign Policy in a Unipolar World”*

### **Issues with Regional Reintegration in the Western Balkans**

By Dr. James Seroka

*AWC, Journal of Southern Europe and the Balkans*

### **The Maintenance of International Peace and Security by the UN and the Role of the Secretary General**

By Dr. Steve Burgess

*AWC, International Peacekeeping Yearbook*

### **Pakistan’s Security Dilemma and the Quest for Strategic Stability**

By Dr. Steve Burgess

*AWC, Book Chapter in “Strategic Stability in Asia”*

### **The Reformist State: The Indian Security Dilemma**

By Dr. Amit Gupta

*AWC, Chapter in “Strategic Stability in Asia”*

### **U.S. Foreign Policy Towards North Africa: Three Overarching Themes**

By Dr. Chris Hemmer

*AWC, Middle East Policy*

### **Vietnam’s Security Challenges: Dilemmas of Reform Communism**

By Dr. Lawrence Grinter

*AWC, Southeast Review of Asian Studies*

### **Vietnam’s Security Perceptions and Policy Directions**

By Dr. Lawrence Grinter

*AWC, Chapter in “Strategic Stability in Asia”*

### **Why Is There No NATO in Asia? Collective Identity, Regionalism, and the Origins of Multilateralism**

By Dr. Chris Hemmer (with Peter Katzenstein)

*AWC, Chapter in “Rethinking Japanese Security”*

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

By Dr. James Seroka

*AWC, Western Balkans Security Observer*

**Doctrine; Air, Space, and Cyberspace Power; History and Lessons Learned**  
*Produced by, Sponsored by/Publication Venue*

### **21<sup>st</sup> Century Airpower: the Integrating Imperative**

By Dr. George Stein

*AWC, The Wright Stuff*

### **Author’s Perspective: Writing about the Luftwaffe**

By Dr. Richard Muller

*SAASS, World War II Quarterly, Vol. 4, No. 2 (2007)*

### **Back to the Weinberger-Powell Doctrine?**

By Dr. Jeffery Record

*AWC, Strategic Studies Quarterly*

### **The Essence of Airpower**

By Professor Dennis Drew

*SAASS, Wright Flyer, AU Press*

### **Genocide and Airpower**

By Dr. Douglas Peifer

*AWC, Strategic Studies Quarterly*

### **Hearts Touched with Fire**

By Dr. Richard Muller and Dennis Showalter

*SAASS, Article in Special Issue of Military History (November 2007)*

## Contributions by AU Faculty

### **Independent AF**

By Professor Dennis Drew

*SAASS, Article in H-Net Military History Forum*

### **Military History**

By Dr. Richard Muller

*SAASS, Special Issue: War and Cinema (December 2007)*

### **The Past in the Present: Passion, Politics, and the Historical Profession...**

By Dr. Douglas Peifer

*AWC, The Journal of Military History Vol. 71*

### **Selfless Saviors or Diehard Fanatics**

By Dr. Douglas Peifer

*AWC*

### **Why the Bush Administration Invaded Iraq**

By Dr. Jeffery Record

*AWC, Strategic Studies Quarterly*





# Award-Winning Authors

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



**Maj Kristal Alfonso, USAF**

(SAASS – Lt Col John Terino)

“Femme Fatale: An Examination of the Role of Women in Combat and the Policy Implication for Future American Military Operations”

**First Command Commandant’s Prize for Best SAASS Thesis in Leadership and Ethics**

- The First Command

**Lt Col Andrew Belko, USAF**

(AWC – Dr. Suzanne Logan)

“Eliminating Organizational Culture Clash: Developing an Air Force Agile Workforce for 21<sup>st</sup> Century Warfare”

**Association of America Leadership Award**

- Military Officers Association of America

**Maj Jacob Barfoed (ACSC – Dr. Reilly)**

“COG Analysis and Operational Design: Ensuring a Logical Linkage between National Strategic Objectives, DIME Instrument of Power, and the Military Campaign”

**Outstanding International Officer Research**

- Dean of Education

**Maj Amanda Birch, USAFR (ACSC – Dr. Ackerman)**

“Waste to Watts and Water: Enabling Self-Contained Facilities using Microbial Fuel Cells”

**Lt Gen John M. Nowak Award for Logistics**

- AF/A4/A7

**Maj John Blackwell, USAF (ACSC – Dr. Griffith)**

“Rebuilding Baghdad: Restoring Essential Services and Reducing Anti-State Forces”

**The International Society of Logistics Engineers Award for Logistics Excellence**

- International Society of Logistics Engineers

**Maj Jason Blevins, USA (ACSC – Dr. Frandsen)**

“Authoritative Joint Doctrine – A Solution to Joint Airspace Management”

**Strategic Air Command Museum’s Research Excellence Award**

- Society of Strategic Air Command

**Maj Ronald Booker, USAF (ACSC – Lt Col Jenkins)**

“Terrorism and Insurgencies Revisited: Comparison and Contrast of Ku Klux Klan and Al-Qaeda”

**Air Force Historical Foundation Award**

- Air Force Historical Foundation

**Maj Christopher Brown, USAF**

(ACSC – Dr. Griffith)

“Guantánamo Bay: A Cost-Benefit Analysis”

**Air Force Homeland Security**

- HQ Homeland Security Directorate

**Maj Travis Burdine, USAF (ACSC – Dr. Frandsen)**

“‘Organic’ Army Unmanned Aircraft Systems: The Unhealthy Choice for the Joint Operational Environment”

**Air Force Association General Carl A. “Tooley” Spaatz Award**

- The Air Force Association’s Education Foundation

**Joint Warfare and Air and Space Operations**

- Dean of Education

**Maj Burton Catledge, USAF; Maj Edward Chatters, USAF; Maj Brian Crothers, USAF; Maj Bryan Eberhardt, USAF; Maj Brian Garino, USAF; Maj Jane Gibson, USAF; Mr. Jason King, USAF; Maj Jeffrey Lanphear, USAF; MAJ Kenneth Kemmerly, USA; Maj Gabriel Medina-Then; LCDR Jeremy Powell, USN; MAJ Dillard Young, USA (ACSC – Maj Lowe, Lt Col Tichenor, Lt Col Daugherty, Lt Col Gould, Lt Col Sparrow)**

“Aeromedical Evacuation: Lessons Learned from World War II Applicable for Today and Tomorrow”

**Space Research Award – Team Award**

- Air Force Space Command

**Maj Joseph Didziulis, ANG (ACSC – Dr. Zartman)**

“Winning the Battle for Hearts and Minds: Operationalizing Cultural Awareness during Stability Operations”

**General Michael Hayden Award for Information Operations**

- Eighth Air Force

**COL John Dowd, USA (AWC – COL Eric Smith)**

“Out of Synch: Joint Solutions for Unmanned Aerial Systems”

**Commandant’s Award**

- Air War College Commandant

*Air and Space Power Journal*

**Mr. James Edmiston, NGA (ACSC – Dr. Valero)**

“Commercial Imagery Proliferation: New Realities for National Security”

**Defense Intelligence Agency Award**

- Defense Intelligence Agency

## Award-Winning Authors

**Lt Col Gordon Griffin, USAF**

(AWC – Dr. Schaub)

“Israel versus Hezbollah 2006: An Assessment of Israel Strategy”

**Red River Valley Fighter Pilots Association Award**

- Air University Foundation

*Part of edited collection via Georgetown University Press*

**Maj Michael Grunwald, USAF**

(ACSC – Mr. Ivanovsky)

“Transforming Air Force ISR for the Long War and Beyond”

**Outstanding Military Studies**

- ACSC Dean

**Maj Joseph Hale, USAF (ACSC – Lt Col Stone)**

“Medical Diplomacy: A Critique of the U.S. Air Force Model”

**Air Force Surgeon General’s Award**

- Air Force Surgeon General

**Lt Col Joel Hanson (AWC – Dr. Schneider)**

“Radiological Dispersal Device Primer: From a Terrorist’s Perspective”

**Thomas “Dutch” Miller Award**

- USAF CPC

*Edited collection via AU Press*

**Maj Kevin Hobbs, USAF (ACSC – Lt Col Guthrie)**

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“SEALORDS and Seawolves: An Analysis of US Navy Riverine Forces in Vietnam 1968-1972”

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# ACRONYMS

ABNCP	Airborne Command Post
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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Each year the AU commander invites senior DOD, Air Force, sister-service, and interagency leaders to propose research topics for the incoming classes at AU. This report seeks to inform AU research sponsors of the research that was accomplished in response to their topics, direct them to where they can review that research, and solicit their feedback. Those papers can be found online at the sites listed below.

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