

# Air University Research Bulletin

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Air University Research Bulletin  
Spring 2005

## Air University Commander's Welcome

By Lt Gen John F. Regni

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The mission of Air University 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 (PCE) for officers, enlisted, and civilian personnel throughout their careers. The university's PME programs educate Airmen on the capabilities of air and space power and its role in national security. These programs focus on the knowledge and abilities needed to develop, employ, command, and support air and space power at the highest levels. Specialized PCE programs provide scientific, technological, managerial, and other professional expertise to meet the needs of the Air Force. Air University conducts relevant, responsive, and forward-thinking research in air and space power, leadership, and management.

Each year, I send a call for topics letter to senior leaders within the Department of Defense (DOD), Air Force, MAJCOMs, combatant commanders and sister services requesting topics of interest in them, their commands and the national security community as a whole. Last year, (in response to our call), we received over 440 topics.

In this, the fifth edition of the *Air University Research Bulletin*, I am pleased to report we have collected and published over 150 high-quality research papers produced in 2004 by students attending our three Maxwell-based graduate schools—the Air Command and Staff College (ACSC), the Air War College (AWC), and the School of Advanced Air and Space Studies (SAASS). Also included in this collection of outstanding student papers are research studies completed in 2004 by officers participating in our Air Force Fellows

program at leading civilian universities and think tanks.

The *Research Bulletin* also highlights contributions in the area of research conducted by our military and civilian faculty at ACSC, AWC, SAASS and the College of Aerospace Doctrine, Research and Education (CADRE).

The research technology team at CADRE posts student papers and publications to the AU Research Web. In order to better serve the community, a SIPRNET site is located at <http://research.maxwell.af.smil.mil/>. This site allows the immediate posting of papers given to us by the schools. Once the papers have cleared a security review, they are posted to the unclassified research web site. I encourage you to visit this site. The archive contains over 2,600 research studies consisting of papers, monographs and books—the best of AU research!

### AU Research Web

(<https://research.au.af.mil>)

AU Research Web offers a comprehensive approach to ePublishing that integrates with the time-honored missions and methods of the US Air Force. Our vision is one of enhancing the role of *Research* and supporting our crucial role in serving millions of people every day who seek information.

# Air University Research Bulletin

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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://research.maxwell.af.mil> or <http://research.airuniv.edu>.

This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

# AU Research Bulletin Overview

## Research at AU

*By John A. Shaud, General (Ret), AU Dean of Research*

AU sponsors a variety of research programs. Our primary objective in publishing the annual *AU Research Bulletin* is to recognize the research accomplishments of AU faculty and students. Accordingly, we highlight faculty and student research, the latest AU Press publications, and the activities of AU's specialized research centers.

The *AU Research Bulletin* records faculty and student participation in conferences and other professional activities that extend our knowledge in the core areas of the AU curriculum. The *Bulletin* tries to foster communication about a broad range of matters related to research at AU. The *Bulletin* is 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.

The services and tools offered by the AU Library, the Air Force Doctrine Center (AFDC), the Air Force Historical Research Agency (AFHRA), and CADRE's Airpower Research Development Division contribute to the process of scholarly investigation at Maxwell. Accordingly, the *Bulletin* will also report on noteworthy developments in the vital area of research development and support.

We welcome your thoughts on ways to improve the *AU Research Bulletin*. Please send any comments to [Research.Support@maxwell.af.mil](mailto:Research.Support@maxwell.af.mil)

## Research Program Overview

*By Heidi R. Reis, PhD, AFIT Dean for Research*

Research at Air University includes both technological research, undertaken primarily at the Air Force Institute of Technology (AFIT) at Wright Patterson Air Force Base (WPAFB) in Dayton, Ohio and research on doctrine, strategy and the art of war conducted at the schools at Maxwell AFB, Alabama: Air War College, Air Command and Staff College, School for Advanced Air and Space Studies, College of Aerospace Doctrine, Research and Education and Air Force Fellows.

Research accomplishments of AFIT's faculty and resident graduate students at WPAFB are reported separately from this *AU Research Bulletin* in annual *AFIT Research Reports*, departmental *Research Activities Brochures*, and in the AFIT Graduate School of Engineering and Management *Research News*. Electronic versions of these publications are available at <http://en.afit.edu/enr/>, and questions may be addressed to [research@afit.edu](mailto:research@afit.edu).

Top Domain/Users of the Research Web	Visitations
af.mil	12,163
googlebot.com	12,153
comcast.net	1,550
rr.com	1,148
cox.net	1,104
army.mil	1,030
aol.com	999
navy.mil	769
charter.com	513
knology.net	486
lmco.com	476
verizon.net	421
bellsouth.net	415
boeing.com	379
pacbell.net	368
swbell.net	333
qwest.net	318
northgrum.com	312
adelphia.net	307
level3.net	300
Others	34,974
<b>Total</b>	<b>70,518</b>

## AU Research Bulletin Overview

**During 2004, the AU Research Web site served up 169,707 PDF files for our research community. Below are the top 20 papers downloaded during the year.**

Top 20 Downloaded Files for 2004			
	School / Year	Title / Author	Downloaded
	AU / 2004	2004 AU Bulletin	14,125
	AFIT / 2003	Hybrid Control Strategies for Rapid, Large Angle Satellite Slew Maneuvers, <a href="#">David B. French</a>	12,714
	SAASS / 1995	When the Enemy Has Our Eyes, <a href="#">Cynthia A.S. McKinley</a>	9,491
	AFIT / 2002	Nonlinear Suppression of Range Ambiguity in Pulse Doppler Radar, <a href="#">Jon M. Anderson</a>	8,433
	SAASS / 2001	General Merrill A. McPeak Leadership and Organizational Change, <a href="#">Thomas A. Bussiere</a>	7,250
	AFIT / 2003	Calculation of the Actual Cost of Engine Maintenance, <a href="#">R. Gregory Carl</a>	7,249
	AFIT / 2002	Alternative Pulse Detonation Engine Ignition System Investigation Through Detonation Splitting, <a href="#">August J. Rolling</a>	6,506
	AFIT / 2003	Single-Mode Raman Fiber Laser in a Multimode Fiber, <a href="#">Matthew B. Crookston</a>	5,932
	AFIT / 2003	Tightly-Coupled Image-Aided Inertial Navigation System via a Kalman Filter, <a href="#">Michael G. Giebner</a>	5,903
	AWC / 2001	Death by a Thousand Cuts: Micro-Air Vehicles (MAV) in the Service of Air Force Missions, <a href="#">Arthur F. Huber II</a>	5,744
	AFIT / 2003	Cargo Aircraft Bombing System (Cabs), <a href="#">Gurler Ari</a>	5,640
	AFIT / 2003	Redundant Discrete Wavelet Transform Based Super-Resolution Using Sub-Pixel Image Registration, <a href="#">Daniel L. Ward</a>	5,356
	AFIT / 2003	Structurally Integrated Antennas on a Joined-Wing Aircraft, <a href="#">Ben P. Smallwood</a>	5,268
	AFIT / 2002	'Design Study of Triggered Isomer Heat Exchanger-Combustion Hybrid Jet Engine for High Altitude Flight, <a href="#">Christopher E. Hamilton</a>	5,150
	ACSC / 2001	UAVs and ISR Sensor Technology, <a href="#">Jeffrey T. Butler</a>	4,661
	ACSC / 2000	Robotics: Military Applications for Special Operations Forces, <a href="#">George M. Pierce II</a>	4,550
	ACSC / 1997	Unmanned Aerial Vehicles (UAVs): An Assessment of Historical Operations and Future Possibilities, <a href="#">Christopher A. Jones</a>	4,239
	AFIT / 2002	Boundary Layer Control Using Micro-Electromechanical Systems (MEMS), <a href="#">David M. Borgeson</a>	4,206
	ACSC / 2000	Using Activity-based Costing to Improve Performance: A Case Study Report, <a href="#">Kevin R. Moore</a>	2,473

## Research and Publications



### School of Advanced Air and Space Studies (SAASS)

#### 2004 Research SAASS Thesis Studies Available On-line

By Lt Col Edward B. Westermann, Professor of Military History

SAASS students author some of the finest research studies at Maxwell. Each student produces a research thesis addressing an important military issue—either of historical or contemporary importance. Approximately half of these theses are accepted for publication in professional journals or in the SAASS theses series or the *CADRE Papers* series produced by Air University (AU) Press.

SAASS theses that have completed security and policy review from 1992 through 2004 are available on the AU Research Web in full text. Instructions for accessing this site are on the front cover of this *Bulletin*.

#### Faculty Highlights

During 2004, the SAASS faculty has continued its tradition of research, publication and special presentations on a wide variety of national defense issues, centered primarily on air and space power. SAASS bid farewell to two senior faculty members in 2004 with the retirement of David Mets and the departure of James Corum for the Command and General Staff College at Fort Leavenworth, but the school welcomed four new faculty members: Col James Forsyth, Lt Col Scott Gorman (SAMS grad); Lt Col Steve Rothstein (SAASS Class VIII) and Dr. James Kiras.

**Colonel James W. Forsyth** left Air Command and Staff College as the Dean of Education and Curriculum and joined the SAASS faculty in July 2004. He is currently working on a monograph dealing with the Argentine Air Force in the Malvinas War as well as an article with the working title, “Understanding Hard Regimes.”

**Dr. Everett Carl Dolman** was recognized as the “AETC Civilian Educator of the Year” for 2003-2004. He published *The Warrior State: How Military Organization Determines Political Institutions*, a study of military organization in the context of Western political development, arguing that structural changes in the military precede and then determine political change. He also finished *Pure Strategy: Power and Principle in the Space and Information Age* (Routledge, forthcoming April 2005), which argues that the purpose of strategy is to develop or maintain a favorable continuation of events, as opposed to more traditional interpretations that tend to see strategy as a form of matching means to ends. He has been active in presenting his work at conferences and symposiums, including: “The Case For Space Weapons” at a World Affairs Council-sponsored space weapons conference held at the Freistat Center for Studies in This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

World Peace, Augustana College; and “Great Power and Great Responsibility: Space Weapons and US Military Transformation,” at the Full Spectrum Dominance meeting of the Nuclear Policy Institute in Washington, DC. Dr. Dolman also continues as managing co-editor of the journal *Astropolitics: The International Journal of Space Power and Policy*, the first independent, fully refereed academic journal dedicated to policy relevant inquiry into the political, economic and military implications and uses of outer space.

**Dr. Harold R. Winton** continued his study of the American corps commanders in the Ardennes Counteroffensive of December 1944-January 1945 with a presentation to the New York Military Affairs Society, “The Battle of the Bulge: Leonard T. Gerow, V Corps and the Defense of the Elsenborn Ridge.” He also presented a paper at the 2004 meeting of the Society for Military History, “An Imperfect Jewel: Military Theory and the Military Profession.” Drawing on his fourteen years of teaching the military theory course at SAASS, this paper critically examined the role that the study of military theory plays in the larger scheme of a warrior’s intellectual development. Finally, he made a presentation to the faculty of the newly formed Joint Advanced Warfighting School (JAWS) at Norfolk, Virginia, “Building and Nurturing Schools of Advanced Military Art.”

**Lt Col Edward Westermann** published three book chapters, including: “Redefining the Former Warsaw Pact Nations” in *United States Post-Cold War Defence Interests: A Review of the First Decade* (Palgrave, 2004); “‘Ordinary Men’ or ‘Ideological Soldiers’?: Police Battalion 310 in Russia in *The World War II Reader* (Routledge, 2004); and “The Royal Air Force and the Bombing of Auschwitz: First Deliberations, January 1941” in *The Holocaust: Critical Concepts in Historical Studies* (Routledge, 2004). In addition, he presented a paper at the CSAF sponsored ACSC Air- and Spacepower Conference, entitled “German Air Defenses, 1933-1945: Insights for Air and Space Strategists in the 21<sup>st</sup> Century?” He also presented a paper, “A Perfect Marriage of Convenience: The Wehrmacht and the Police and the Anti-Partisan Campaign in the Occupied Eastern Territories” at Brown University during the Lessons and Legacies VIII conference. He finished a book manuscript entitled *Hitler’s Police Battalions: Enforcing Racial War in the East* (University Press of Kansas, forthcoming April 2005) which examines cooperation between the German police and the SS, and the close relationship between police and Wehrmacht in the conduct of the anti-partisan campaign on the Eastern Front and stresses the importance of ideological indoctrination and organizational culture in the conduct of atrocity and genocide. He also reviewed Michael Wildt’s *Generation des Unbedingten: Das Fuehrungskorps des Reichsicherheitshauptamtes* for H-German and Alaric Searle’s *Wehrmacht Generals, West German Society, and the Debate on Rearmament, 1949-1959* for the German academic journal *Sehepunkte*.

**Dr. Thomas Hughes** published an article in a special edition of the *Air and Space Power Journal* and the R.A.F.’s *Air Power Review*. He delivered a lecture at the Canadian Forces College

## Research and Publications

in November 2004 on strategic attack. He published a review of Stephen Budiansky's *Air Power: The Men, Machines, and Ideas that Revolutionized War from Kitty Hawk to Gulf War II* in the *Military History Quarterly*. He also conducted research in the Southwest Pacific in support of his planned work on Admiral William "Bull" Halsey.

**Dr. James Kiras**, the newest addition to the SAASS faculty, had a chapter published in December entitled "Terrorism and Globalization." This chapter appeared in Oxford University Press' 3<sup>rd</sup> edition of *The Globalization of World Politics*, edited by John Baylis and Steve Smith. In addition, Dr. Kiras was invited to give a presentation to the Advanced Research and Assessment Group (ARAG) at the UK Defence Academy (UKDA) in Shrivenham. The subject of the talk, delivered to an audience of senior military and interagency representatives in December, was US counterterrorism policy and strategy including an introduction to the OSD-sponsored Counterterrorism Fellowship Program (CTFP).

**Dr. Richard Andres'** paper, "When to Target Enemy Leaders in War," was accepted for publication as a chapter in a forthcoming AU Press book. He also presented a paper on strategic uses of assassination at the ACSC Air and Space Power Conference at Maxwell; was the discussant at the International Studies Association Conference's Rand sponsored panel on preemptive attacks; and was on a roundtable at the Carlisle Barracks sponsored Symposium on Campaign Planning. During the year he led a SAASS campaign planning team designed to use Air University's resources for real world purposes. Along with John Terino, he planned the SAASS wargame for the four Advanced Schools. He also consulted for the nuclear posture review on the political effects of developing low yield nuclear weapons; consulted for the Office of Net Assessment on campaign planning for an MCO; lectured at the Air War College on coercion involving nuclear weapons; and consulted for the AU sponsored WARCON group which is developing new wargaming software for the Air Force. Andres' current research investigates the strategic implications of proxy war using the new type of air-ground operations first implemented for use with Northern Alliance forces in Operation Enduring Freedom and later supported by the Kurds in northern Iraq during Operation Iraqi Freedom. He is also examining the practical problems with implementing netcentric warfare that were demonstrated during Operation Anaconda.

**Lt Col John Terino** reviewed Matthew Mowthorpe's *The Militarization and Weaponization of Space* for the online Military History list, H-WAR. He initiated a development effort to improve the Gulf War Target Analyst Database into a Comparative War Analysis Tool through a contract effort to add material from Operations Allied Force, Desert Fox, Enduring Freedom, and Iraqi Freedom to the database. As a member of the newly formed MIT Military Innovation Study Group he has begun research on an article assessing the impact of jointness on the development of UAVs in the last fifteen years. He also delivered a paper at the ACSC Air and Space Power Conference on "Bio-Massive Retaliation: A Case Study in Inaccuracy" and This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

presented a paper at the Society for Military History Conference entitled "Vectors for Victory: The United States Air Force and Biological Warfare in the Early Cold War."

**Lt Col Scott Gorman** joined the SAASS faculty in August 2004 after spending three years studying under Eliot Cohen in the Strategic Studies program at the Johns-Hopkins School of Advanced International Studies (SAIS). He is currently completing his dissertation on nonlinearity and American precision air power. His future research interests include further application of the nonlinear sciences to warfare and a case study of the Pantelleria bombing campaign during World War II.

**Dr. Gary Schaub, Jr.** joined the SAASS faculty in 2004 as a visiting professor of Political Science after receiving his doctorate from the University of Pittsburgh in 2003. His research concerns the theories of coercion and their relationship to theories of decision making. He published "Deterrence, Compellence, and Prospect Theory," in the journal *Political Psychology* (June 2004). This article considers how our expectations of adversary behavior changes depending upon our assumptions of how they process information when making decisions. He also chaired a panel on 'Counter-Terrorism: Theoretical and Policy Perspectives' at the 45<sup>th</sup> Annual Convention of the International Studies Association in Montreal, Quebec, March 17-20, 2004 and attended the Teachers Workshop sponsored by the Center for Strategic Education, of the Paul H. Nitze School of Advanced International Studies at Johns Hopkins University, held in Stowe, VT, June 26-July 1, 2004.

**SAASS Students Contribute to USAF/XO Research Effort**  
SAASS students continue to make a contribution to the school's and USAF research efforts. In fact, five SAASS student-faculty teams spent three weeks dedicated to researching topics of interest forwarded by the USAF/XO to Air University. The topics included: organizing for the next war, Army transformation and future airlift doctrine, the need for a regional bomber, forward basing and the utility of near space vehicles. At the conclusion of the project, the students developed a PowerPoint briefing and an annotated bibliography to be forwarded to senior decision-makers at the Air Staff.

SAASS theses produced by the class of 2004 are included in the summary at the end of this *Bulletin*.

## Research and Publications



### Air War College (AWC)

#### AWC Student Research

By Dr. Judith Gentleman, Associate Dean for Academic Programs

All members of the AWC Class of 2004 participated in the AWC Research Program through the Professional Studies Program. During 'AY 05, students undertook research through either the Team Research Projects Program or the Individual Professional Studies Program.

#### AY 04 student research papers selected for awards include:

**AWC Commandant's Award**, Lt Col Stephen Latchford, "Strategies for Defeating Commercial Imagery Systems."

**AWC Award for Excellence**, Lt Col Kenneth G. Canestrini, "Quagmire: The Pentagon's Word for Nation Building."

**Military Officers Association of America Award**, Ms. JoAnn Banks, "From Selfless Service to Selfish Service: Ethics in the Military."

**Defense Intelligence Agency Award**, Lt Col Kirk M. Kloepfel, "Pesky Critters."

**Lieutenant General John M. Nowak Award for Logistics**, Lt Col Bryan Newkirk, "Global Combat Support System: An Absolute Must for the Joint Warfighting Commander."

**Armed Forces Communications and Electronics Association Award**, Lt Col Richard A. Lipsey, "Net Work Operations Warfare: Unleashing the Potential."

**Air Force Homeland Security Award**, Lt Col Terese D. LeFrancois, "Applying a Systems Approach Model to National Guard Civil Support Teams."

**Thomas "Dutch" Miller Award**: Lt Col James R. Ayers, "Crossroad of the Apocalypse: Al Qaeda's Pursuit and Possible Use of Weapons of Mass Destruction."

**General Charles A. Horner Award**: Lt Col Mark W. Ellis, "Preemptive & Preventive Strikes: A WMD Conundrum."

**Global Reach Award**: Lt Col Jacqueline D. Van Ovost, "Global Mobility: Anytime, Anywhere, Any threat? A Fresh Look at Countering the MANPADS Challenge."

**The International Society of Logistics Prize Paper Award**: Lt Col Howard C. Davis, "Radio Frequency Identification

(RFID) Technology: Is the Capability a Boon or a Burden for DOD?"

**Strategic Command Award**: Lt Col Karl B. Johnson, "Strategic Defense—A New Deterrence Paradigm: Linking Directed Energy Ballistic Missile Defense with Phased Nuclear Disarmament."

**Red River Valley Fighter Pilots Association Award**: Lt Col John E. Marselus, "Who Pushes the Pickle Button?"

**Douhet-Mitchell International Airpower Award**: Lt Col Daryl Hauck, "Pandora's Box Opened Wide: Micro Unmanned Aerial Vehicles Carrying Genetic Weapons."

**Air Force Historical Foundation Award**: Colonel (s) James C. Horton, "Unmanned Combat Aerial Vehicles: SEAD & EW for the Future."

**Major General Orvil A. Anderson Leadership Research and Writing Award**: Lt Col Philip A. Iannuzzi, Jr., "The Evolution of the Expeditionary Aerospace Force and the Need to Develop Expeditionary Aerospace Commanders."

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Col David A. Moore, AWC Class of 2001, published his revised AWC Professional Studies Paper as *The Art of Aerial Warfare, Fairchild Paper*, Maxwell Air Force Base, AL: Air University Press, 2004.

#### AWC Student Team Research Projects for AY 05 include:

*AU Space Center Blueprint Project*: Research project to develop framework to integrate space capabilities into joint, multinational and interagency operations in the future, targeting the year 2015. External POCs: AFSPC and AF/XPX

*Alternative CONOPS for MOC-I*: Research project to develop alternative concept of operations (**classified**). External POC: CJCS J8

*Adversarial Scenarios for the Joint Land, Air and Sea Simulations (JLASS)*: Research project to examine adversarial approaches to CJCS J8 CONOPS solutions. External POC: AF/XOX

*Network Centric Warfare Frameworks*: Research to develop framework for role of air and space forces to address net centric warfare. External POC: OSD

*Air and Space Options for Homeland Defense*: Research to develop air and space approach to support homeland defense operations. External POCs: AFXOX and NORTHCOM

*Leadership Competencies for JTF HQ*. Research to examine and propose leadership competencies for a 2015 JTF HQ environment. External POC: JFCOM J7 and AF/DPL

## Research and Publications

### AWC Faculty Highlights

By Dr. Judith Gentleman, Associate Dean for Academic Programs

**Dr. Stephen Burgess** has published (with Helen Purkitt) *South Africa and Weapons of Mass Destruction*. Bloomington Indiana: Indiana University Press. He has also published two book chapters: "The Impact of Structural Adjustment and Economic Reform on the Transition Process in East Africa," in Paul J. Kaiser and F. Wafula Odumu, eds. *Democratic Transitions in East Africa: A Comparative and Regional Perspective*. Ashgate Publishers, 2004; and, "South Asian Nuclear Dynamics and the 2002 US Nuclear Posture Review," in James J. Wirtz & Jeffrey A. Larsen, editors. *Nuclear Transformation: The New US Nuclear Doctrine*. Palgrave St. Martin's Press, May 2005. He has written in 2004 a monograph for INSS, USAF Academy, entitled "India's Security Strategy, Defense Capabilities and Missile Defense Posture: The Impact on Stability and Arms Control in South Asia." Dr. Burgess has presented the following conference papers: "Integrating Security Forces and Post-Conflict Peacebuilding in Africa," African Studies Association Annual General Meeting, New Orleans, November 2004; "Emerging Security Relations in South Asia," International Studies Association Security Section Annual General Meeting, Washington, DC, March, 2004. He also served as a discussant on panels on "Casualty Aversion" and "Weapons of Mass Destruction" at the American Political Science Association Annual General Meeting, Chicago, September 2004. Dr. Burgess delivered presentations at the Indian Defence College and Institute for Defence and Security Analyses (IDSA), New Delhi, September 2004. Dr. Burgess conducted research for his project "Emerging Security Relationships and the Role of Political Islam in South Asia in September 2004, in India and Bangladesh. The work was supported by INSS, US Air Force Academy and the USAF Counterproliferation Center. He was also awarded \$6200 by the INSS, US Air Force Academy, in December 2004, for his research on "Emerging Security Relationships and the Role of Water and Oil in Africa."

**Dr. Mark Conversino** has written an article "Operation DESERT FOX: Effectiveness Without Effect," now under review for publication.

**Col Jim A. Davis and Dr. Barry R. Schneider**, editors. *Avoiding the Abyss. Progress, Shortfalls, and the Way Ahead in Combating the WMD Threat*. Maxwell AFB, AL: USAF Counterproliferation Center, March 2005.

**Dr. Stephen Fought**, "The Tale of the JFACC: a Long and Winding Road." *Air and Space Power Journal*. 2004.

**Dr. Lawrence Grinter**, "Five Triggers for a Chinese Attack on Taiwan." *Asia Times Online*, 21 August 2004 and "A Chinese Attack on Taiwan: Probable Scenarios," *Taiwan Perspective*, Issue, no. 61, 26 February 2005.

**Dr. Amit Gupta** published *The US-India Relationship: Strategic Partnership or Complementary Interests? Strategic*

*Studies Institute Monograph*. Carlisle Barracks, PA: USAWC, SSI, February 2005; *Dealing with the United States: A Proactive Policy for India*. Observer Research Foundation Monograph, April 2005; "The Globalization of Cricket: The Rise of the Nonwest." *International Journal of the History of Sports*, Vol. 21, no. 2, March 2004; "The Indian Diaspora's Political Efforts in the United States." *ORF Occasional Paper*, September 2004.

**Dr. Grant Hammond**, along with Professor Ted Hailes, has conducted research that has led to the development of a major briefing to AF/XPX for the QDR process on the need to invest in more and better Science and Technology (S&T) in order to sustain US national security based on technological military superiority. This presentation was also delivered to the Air Force Research Laboratory Corporate Board (AFRL) and will be presented to the National Air and Space Intelligence Center (NASIC) this Spring. He has continued research on his project "The Revolution in Security Affairs: The Transformation of Politics and War in the 21<sup>st</sup> Century." Dr. Hammond was an invited participant in the OFT sponsored seminar series on the "Principles of War and the Future of Warfare." He has forthcoming a book chapter "The USAF and the American Way of War," in the book *The Principles of War and the Future of Warfare*, forthcoming from the US Naval Institute Press, September 2005. He also has forthcoming study "Revolutions-Political, Technological and Military: Reflections on Transformation, Strategy and the Future" to be published as a monograph for the Institute of Defense and Strategic Studies, Singapore. His book *The Mind of War: John Boyd and American Security* was reprinted with an epilogue as a paperback by Smithsonian Institution Press, August 2004. He has participated and spoken at a number of conferences and seminars. These include: invited participant, Office of Force Transformation Workshop on Network Centric Warfare, Naval Post Graduate School, July 2004; invited speaker on topic "Strategy and Transformation," Institute for Defense and Strategic Studies (Singapore) Seminar, July 2004 and "The RMA and Transformation." February 2005, also at the IDSS in Singapore. Dr. Hammond was invited to speak on the subject of "Transformation and Future Conflict" and "C3T: Conceptual, Critical and Creative Thinking," National Air and Space Intelligence Center, October 2004. He was an invited participant in a classified study of disruptive technologies sponsored by US Navy (N-81) and run by Toffler Associates, March 2005. He has a forthcoming presentation to the International Quality and Productivity Center (IQPC) Conference on "Expeditionary Land and Air Force Protection, London, UK, May 2005 on the subject of "Red Teaming the Adversaries: Asymmetric Threats and Force Protection." Dr. Hammond will serve as a keynote speaker for an Office of Force Transformation sponsored workshop to establish an interagency collaborative network at the Woodrow Wilson Center for Scholars in May 2005.

**Dr. Christopher Hemmer** has written "Lebanon: Consociation, Civil War and the Search for Stability" Operational Snapshot: Academic Lessons for Operational Campaign Planning and Execution," CADRE, November 2004. He is co-author of a study for CENTCOM commissioned through the USAF

## Research and Publications

Counterproliferation Center (CPC) entitled: "Avoiding Panic and Keeping the Ports Open in a Chemical and Biological Threat Environment: a Literature Review" (co-written with Tanja M. Korpi), forthcoming from CPC. He has also written "The Lessons of September 11<sup>th</sup>, Iraq and the American Pendulum," now under review for publication.

**Dr. Dan Henk** has completed work on a manuscript forthcoming in 2005 with University Press of America entitled *South Africa's Armaments Industry: Continuity and Change after a Decade of Majority Rule*. He has also concluded work on several other articles that are scheduled for publication: "Biodiversity and the Military in Botswana;" "The Botswana Defence Force: Evolution of a Professional African Military," "The Botswana Defence Force and the War Against Poachers in Southern Africa."

**CAPT Edward Johnson** has been conducting research in the area of Unmanned Undersea Vehicles and has been invited to offer a presentation on this topic at the Undersea Warfare Conference in Washington, DC, May 2005. He also had a multimedia display of a paper he wrote entitled "Unmanned Undersea Vehicles and Guided Missile Submarines: Technological and Operational Synergies" presented at the Submarine Technology Symposium, 2004.

**Lt Col Todd Kemper** published his Professional Studies Paper as "Aviation Urban Operations: Are We Training Like We Fight." *Maxwell Papers* #33. September 2004.

**Dr. David Lai** published *Learning from the Stones: A Go Approach to Mastering China's Strategic Concept*, Shi. Carlisle, PA: Strategic Studies Institute, 2004. Dr. Lai is also working on a manuscript entitled: *Chinese Way of War and Diplomacy: Lessons from the Game of Go* and has briefed some of this work to the OSD/Office of Net Assessment, the USAF Wargaming Division and the Department of State, in addition to AU personnel.

**Dr. Jeffrey Record** has published *Dark Victory, America's Second War Against Iraq*, Naval Institute Press, 2004. He is the author of several monographs including *Iraq and Vietnam: Differences, Similarities and Insights*, (co-authored), Carlisle Barracks, PA: US Army War College, May 2004; *Nuclear Deterrence, Preventive War and Counterproliferation*, Washington, DC: CATO Institute, June 2004. He has published several articles including: "Threat Confusion and Its Penalties," *Survival*, Summer 2004; "Sustaining the Global War on Terrorism," *Proceedings*, December 2004. He has two articles forthcoming: "Using (and Misusing) History: Munich, Vietnam, and Iraq," *Parameters*, Spring 2005 and "The Limits and Pitfalls of America's Conventional Military Primacy," *Survival*, Spring 2005. He has written several book reviews including "To Destroy a City," *Parameters*, Spring 2004; "Reconstructing Eden," *Parameters*, Winter 2003-2004, and "The Iraq War," *Parameters*, Autumn 2004. He has also written an Op-ed: "Back to Deterrence, Please!" Cato Institute (online) June 30, 2004.

**Dr. Steven Roper** has published the following articles: "Federalization and Constitution-Making as an Instrument of Conflict Resolution." *Demokratizatsiya: The Journal of Post Soviet Democratization*, 12/4, Fall 2004; "Teaching Students How to Be Revolutionaries or Reformers: A Course Simulation." *Innovations in Education and Teaching International* 41.3, August 2004; "Conducting a Distance Education Course When You are the Distant One," *PS: Political Science & Politics*, 37.3, July 2004. Dr. Roper has published the book chapter "From Frozen Conflict to Frozen Agreement: The Unrecognized State of Transnistria," in *De Facto States: the Quest for Sovereignty*. Tozun Bachel, Barry Bartman and Henry Srebrnik, editors. NY: Routledge, 2004. He has written two book reviews: "Protecting the Human Rights of Religious Minorities in Eastern Europe," edited by Peter Danchin and Elizabeth Cole, *Ethnic and Racial Studies*, 27-5, September 2004; Occasional Papers in Romanian Studies, No 3: Moldavia, Bessarabia, Transnistria, edited by Rebecca Haynes, *The Slavonic and East European Review*, 82.3, July 2004.

**Lt Col James Rothenflue** has presented his work on "HEL Weapon Design and Test: Understanding the Challenges" at the IQPC Directed Energy Weapons Conference in London, January 2005 and will also do so at the IDGA Directed Energy Conference in Washington, D.C. in June 2005.

**Dr. Barry R. Schneider and Col Jim A. Davis**, editors. *The Gathering Biological Storm*. Westport, CT: Praeger, 2004. Book chapter: "US Biodefense Readiness: Thoughts After September 11<sup>th</sup>," in *The Gathering Biological Storm: Counterforce Targeting Capabilities: Capabilities and Challenges*, *Counterproliferation Papers: Future Warfare Series*, No. 11, USAF Counterproliferation Center, April 2005; Jim A. Davis and Barry R. Schneider, *Avoiding the Abyss: Progress, Shortfalls and The Way Ahead*. Maxwell AFB, AL: USAF Counterproliferation Center, 2005. Book chapter: "Progress in Counterforce: 1993-2004," in *Avoiding the Abyss*. Book chapter: "Seeking a Port in the WMD Storm: Progress, Shortfalls and the Way Ahead," in *Avoiding the Abyss*.

**Col Steven Schwalbe** has had three articles published in *Air and Space Power Chronicles*: "A Statistical Analysis of the House of Representatives Vote on Base Closures," October 18, 2004; "Overseas Military Base Closures," January 5, 2005; "Democracy in Iraq," March 2, 2005.

**Dr. David Sorenson** co-edited *The Politics of Peacekeeping in the Post-Cold War Era*, London and New York: Frank Cass, 2005 (co-edited with Pia Christina Wood, Wake Forest University) and completed the final draft of *The Politics of the Modern Middle East*, New York: Longman's Publishers, forthcoming, 2005. He also prepared for forthcoming publication, "The Mythology of Fourth Generation Warfare: A Response to Hammes," *Contemporary Security Policy* and presented "Preserving US Hegemony in the Middle East: American Policy Towards Egypt after September 11," International Studies Association, Montreal, March 2004. His interviews on military base closure were published in *Air Force Magazine*, Marysville, CA; *Appeal-Democrat Commonwealth*

## Research and Publications

(Boston) Portland, ME *Portland Press-Herald/Sunday Telegram*, Escondido, CA *North Country Times*, and the *Wilmington News-Journal* (Delaware). He has a manuscript, "The Egyptian Role in US Hegemony" under review at the *Middle East Journal* and his paper, "The Future of US-Turkish Relations" was accepted for presentation at the First Global International Studies Conference at Bilgi University, Istanbul, 24-27 August 2005.

**Dr. James H. Toner** has published a paperback edition of *Morals Under the Gun. The Cardinal Virtues, Military Ethics and American Society*. Lexington, KY: University Press of Kentucky, 2004 (previously published in hardback).

**Major James C. Whitmire** is co-editor and contributor, *The Homeland Security Papers: Stemming the Tide of Terror*, Maxwell AFB, AL: USAF Counterproliferation Center, 2004.

**Dr. Toshi Yoshihara** is co-author (with Charles Perry and James Schoff) of *Alliance Diversification and the Future of the US-ROK Alliance*, Cambridge, MA: Brassey's Inc., 2004. He also has written "The Influence of Mahan upon China's Maritime Strategy," *Comparative Strategy*, March 2005 (co-authored with James Holmes). He has forthcoming "China's Search for Energy Security in the Energy Ellipse," in *Insecurity in the Energy Ellipse*, James H. Wyllie, editor, London: Francis and Taylor, forthcoming Fall 2005; "China, Korea, and Geopolitics," *Issues and Studies*, forthcoming Fall 2005 (with James Holmes). Also forthcoming is "Taiwan: Melos or Pylos?" *Naval War College Review*, forthcoming Summer 2005 (co-authored with James Holmes).

**Dr. Xiomng Zhang** completed "China's 1979 War with Vietnam: A Reassessment," now under review for publication. He is also preparing an article on the three Taiwan Straits crises of the 1950s through the 1990s.

### USAF Counterproliferation Center (CPC)

#### CPC sponsored books and publications

*Edited by Dr Jim A. Davis and Dr. Barry R. Schneider, Director*

Book - *The Gathering Biological Warfare Storm*, Praeger Publishers

- Chapter 1 - US Bio-Defense Readiness
- Chapter 2 - Agroterrorism and Foot-and-Mouth Disease
- Chapter 3 - Surveillance and Detection (Public Health)
- Chapter 4 - The Anthrax Terror (Previously published in *Aerospace Journal*)
- Chapter 5 - Efficacy and Safety of the Anthrax Vaccine
- Chapter 6 - Smallpox: A Primer
- Chapter 8 - Assessment of the Emerging Biocruise Threat
- Chapter 9 - Next Generation Bioweapons
- Chapter 10 - A Biological Warfare Wake-up Call

Book - *Avoiding the Abyss: Progress, Shortfalls, and the Way Ahead in Combating the WMD Threat*

Chapter 1 – The First Decade of Counterproliferation

This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

- Chapter 2 – The WMD Proliferation Threat
- Chapter 3 – Weapons of Mass Destruction Terrorism
- Chapter 4 – Nonproliferation—Challenges Old and New
- Chapter 5 – Progress in Counterforce: 1993-2004
- Chapter 6 – Emerging Missile Challenges and Improving Active Defenses
- Chapter 7 – Passive Defense against the WMD Threat
- Chapter 8 – Consequence Management
- Chapter 9 – Counter-WMD Concepts of Operations at US and Allied Air Bases
- Chapter 10 – US Counterproliferation Cooperation with Allies
- Chapter 11 – Securing the Homeland: The First Decade
- Chapter 12 – Seeking a Port in the WMD Storm

Edited by Michael W. Ritz, Ralph G. Hensley, Jr., and James C. Whitmire

Book – *The Homeland Security Papers: Stemming the Tide of Terror*

- Chapter 1 – Introduction
- Chapter 2 – What Price Security?
- Chapter 3 – The Columbian War and the Narco-Terrorist Threat
- Chapter 4 – Protecting America's Seaports
- Chapter 5 – Gulf of Mexico
- Chapter 6 – Computer Network Defense
- Chapter 7 – Improving the Effectiveness of First Responders in Homeland Security
- Chapter 8 – Homeland Security
- Chapter 9 – The Psychological Impact of Terrorist Attacks
- Chapter 10 – Canada and the United States

Monograph - *Military Studies in the Jihad Against the Tyrants: The Al-Qaeda Training Manual* (edited by Jerrold M. Post)

Monograph - *Counterforce Targeting: Capabilities and Challenges* (Barry R. Schneider)

Monograph - *Emerging Missile Challenges and Improving Active Defenses* (Jeffrey A. Larsen and Kerry M. Kartchner)

Monograph - *Nonproliferation Challenges Old and New* (Brad Roberts)

Monograph - *The Decisive Phase of Columbia's War on Narco-Terrorism* (Dario E. Teicher)

Monograph - *Ayman Al-Zawahiri: The Ideologue of Modern Islamic Militancy* (Youssef H. Aboul-Enein)

Monograph - *Needed Now The "85% Quick Fix" in Bio-Defense* (Jim A. Davis and Bruce W. Bennett)

Monograph - *Initiatives and Challenges in Consequence Management after a WMD Attack* (Bruce W. Bennet and Richard A. Love)

Report - *Bio-defense Now: 56 Suggestions for Immediate Improvements* (Tasha L. Pravecek and Jim A. Davis)

## Research and Publications

### The Center for Strategy and Technology (CSAT)

By Lieutenant Colonel James Rothenflue, Director

CSAT continued to lead Air Force and DOD strategy and technology research by analyzing the strategic implications of technological choices. In its ninth year of operation, the Center completed 18 student research papers from AWC and ACSC, conducted a futures study for AF/XPX in support of the QDR, and performed a year-long group research project of Network Centric Operations and briefed it to several audiences, including OSD.

The Center continues its efforts to publish significant works exploring the nexus between strategy and emerging technologies. In addition to the 18 research papers, two new monographs were published, 12 white papers on various aspects of NCO were generated, and 6 presentations were delivered to DoD and international conferences. Furthermore, CSAT accepted invitations to deliver formal briefings to AFRL, NASIC, OSD, AF/XP and several other audiences on the results of its various ongoing research projects. As a result, significant new collaborative relationships with OSD and AF/XP are either underway or “in the works.”

The staff has performed services both independently and for several other DoD organizations as well. The Center staff concluded a study on low cost autonomous control of miniature unmanned aerial vehicles which included impressive hardware and software demonstrations. In addition to playing a key role in establishing an OSD-funded Chair for Force Transformation at AU, CSAT initiated early planning for the establishment of a standing Air Force Futures Group, led by CSAT in close coordination with AF/XP and AFRL, and designed to become the lead forum for institutionalized futures thinking within the AF. The Center maintains working relationships with NASA, the AFSAB, DARPA, and AFOSR and seeks opportunities to enable other DOD organizations to leverage the opportunities presented by the accelerating technological change characteristic of the early 21<sup>st</sup> century.

In addition to its role in publishing and consulting, CSAT continues to teach core and elective courses at the colleges within AU. For example, the staff teaches an elective on strategy and technology at AWC and offers a research elective at ACSC with a similar focus. The Center also offers elective courses on selected focus topics each year (i.e., UAVs in AY04) and plans to modify these offerings in AY06 to include Directed Energy Weapons and post-QDR technical challenges for the AF. In all these courses, the students are exposed to future technologies and have the opportunity to visit some of the Air Force’s most advanced research facilities and/or interact with cutting edge scientists and engineers.

The Center is headquartered in building 1450, across the street from the Air War College. Key Center staff includes: the Director, Lt Col James Rothenflue; the Deputy Director, Dr. Grant Hammond; the OFT Chair Mr. Ted Hailes; and the AFRL Representative to Air University, Col John Wissler.

### New CSAT *Occasional Papers* available on-line:

- *Centralized Control with Decentralized Execution: Never Divide the Fleet?:* Daniel F. Baltrusaitis, June 2004
- *The Decision Maker’s Guide to Robust, Reliable and Inexpensive Access to Space,* Gary N. Henry, July 2004.

In addition to the publications listed above, there are AWC student research studies included in the summary at the end of this bulletin.



### Air Command & Staff College (ACSC)

#### ACSC Student Research

By Dr. William T. Dean, Director of Research and Publication

All students produced research papers as part of the research program in AY04.

#### Award winners were:

Maj Hans Ritschard, Commandant’s Award for Research Excellence—“Transforming Our Response to Trauma: Guidelines for Military Best Practice”

Maj Neil Allen, Joint Warfare and Air and Space Operations Award—“Time-Sensitive Combat Assessment”

Maj Christopher Setliff, Leadership, Command, and Communications Studies Award—“Embedding the AF Enduring Leadership Competencies into AF Culture”

Maj Jeffrey Philippart, Military History Studies Award—“The Expeditionary Airfield as a Center of Gravity: Henderson Field During the Guadalcanal Campaign (August 1942–February 1943)”

Maj Marc Bigaouette, Outstanding International Officer Paper—“Pilot Retention: Are the Canadian Forces Doing it Right?”

Maj William Cashman, Outstanding Military Studies Award—“A Practical Guide to Space Strike”

MAJ Michael Lewis, USA, US and International Security Studies Award—“The Faltering Relationship—The United States and Europe, Post 9/11”

Maj John Wilcox, Air Force Homeland Security Award—“Is the United States’ Treatment of Prisoners as “Unlawful

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Combatants” Negatively Affecting Allied Support for the Global War on Terror?”

Maj Robert Blagg, Airlift Tanker Association “Global Reach” Award—“C-130 Air Expeditionary Force: Concept vs. Reality”

Maj Martin Schlacter, Armed Forces Communications and Electronics Association Award—“Battlespace Awareness for Network Defense: Legal Framework and Operational Requirements”

LCDR James Taylor, USN, Defense Intelligence Agency Award—“A Case for Developing Small Expendable Unmanned Aerial Vehicles (UAV) to Augment US Navy Maritime Patrol and Reconnaissance Missions”

Maj Matthew Isler, General Carl A. “Tooe” Spaatz Award—“Beyond Attrition: Integrating Psychological Effects into USAF Counterair Doctrine”

Maj Kenneth Crane, Information Operations Award—“Lessons for Cyberspace in the Air War Tactical School”

Maj Richard Spillane, International Society of Logistics Engineers Award for Logistics Excellence—“Impact of the Combat Wing Organization on AFSOC”

Maj Michael Manion, USAFR, Joint Special Operations Award—“Should the CV-22 be Considered as the Replacement Aircraft for the HH-60G?”

Maj David Haase, Lieutenant General John M. Nowak Award for Logistics—“Improving the Combatant Commander’s Ability to Orchestrate a Joint Deployment”

Maj Steven Burgh, Red River Valley Fighter Pilots Association Award—“Future Joint Forcible Entry Operations in an Anti-Access/Area-Denial Environment”

Lt Col John Russo, ANG, Reserve Component Award—“Cold War Freezer Burn: Today’s AFB?”

Maj Michael Costello, Society of Strategic Air Command Research Excellence Award—“Pursuing the Hypersonic Solution: Today’s Implications”

Maj Kenneth Montgomery, Space Award—“No “Air” in Space: Does the Uniqueness of Space Suggest a Better Executive Agent?”

Maj Kevin Wright, Surgeon General’s Award—“An Intercorps Analysis of Squadron Command Opportunities Within the Objective Medical Group”

For the academic year 2004-05, all students are enrolled in research seminars focusing on topics of DOD, and USAF interest. Students benefit from the unique expertise of our research seminar instructors who lead guided studies in their chosen topics. Ten new research awards sponsored by

organizations outside ACSC have provided greater opportunities for recognition of this year’s outstanding student research.

Each ACSC student is charged to: ...document, critically analyze and solve air and space power problems of the past ten years...and into the future.

### ACSC Faculty Highlights

By Lt Col Carol Atkinson, PhD, Director of Research Seminars and Dr. William T. Dean, Director of Research and Publications

In addition to student research, the ACSC faculty was extremely busy this year. The following is a listing of ACSC faculty academic accomplishments:

**Lt Col (PhD) Carol Atkinson** presented the paper “The Construction of Democracy: Political Socialization Through Military Engagement” at the Midwest Political Science Association Annual Meeting in Chicago, IL, April 2004; and the paper “The Influence of US Military Educational Exchange Programs on the Political Identity of States 1972-2000” at the Southern Political Science Association Annual Meeting, New Orleans, January 2005.

**Dr. Bruce Bechtol Jr.** presented several papers to include: a paper entitled; “The North Korean Nuclear and Missile Problem and Regional Security,” presented at the International Council of Korean Studies Annual Conference, “The Impact of the 2004 US and Korean Elections on their Politics, Economies, and Societies,” at the Sheraton National Hotel, Arlington, Virginia, August 6-8, 2004; the paper “Civil-Military Relations in the ROK and Their Impact on North-South Relations,” at the Asia-Pacific Center for Security Studies Conference entitled, “Inter-Korean Reconciliation and Cooperation: Challenges and Prospects,” 1-3 March 2005, a paper entitled, “Assessing the Present and Charting the Future of US-DPRK Relations: The Political-Diplomatic Dimension of the Nuclear Confrontation,” at the annual International Studies Association conference in Honolulu, Hawaii, held 1-5 March 2005, and a paper entitled, “The ROK-US Alliance: Perspectives, Perceptions, and Implications of a Changing Strategic Environment,” at the Korean Association of International Studies Meeting in Seoul, Korea, 25 March 2005. He authored the book chapter, “Eagle in the Land of the Morning Calm: The Forces that Influenced US Policy Toward the Korean Peninsula During the 1990s,” in *Divided Korea: Longing for Reunification*, ed. Ho Youn Kwon (Chicago, Ill: North Park University Press, 2004), and was the author of three articles in peer reviewed journals; “The Northern Limit Line Incident of 2002: Motivations and Implications,” in *Pacific Focus*, Vol. 19, No. 2 (Fall 2004), “The Impact of North Korea’s WMD Programs on Regional Security and the ROK-US Alliance,” in the *International Journal of Korean Studies*. Vol. VIII, No. 1, (Fall/Winter 2004), and “Changing Realities and Paradigm’s in the Social and Political Aspects of the Cold War: The Korean Conflict,” in the *Korea Observer*, Vol. 36, No. 2 (Spring 2005). Dr. Bechtol was appointed Editor of the Defense Intelligence Journal in September of 2004, and is the author of two book reviews in that journal during 2004-2005; *Eye on Korea: An Insider Account of Korean—American Relations* by

## Research and Publications

James V. Young and *Transforming Korean Politics: Democracy, Reform and Culture* by Young Whan Kihl. He also served as a guest lecturer and panel discussant at the Joint Special Operations University during March of 2005, addressing issues of culture and politics in Northeast Asia.

**Lt Col Bob Bois** attended the 22<sup>nd</sup> Annual System Dynamics Conference at Keble College, University of Oxford, England from 25 through 29 July 2004. The purpose was to present the findings of his doctoral research as well as to chair the information science panel. He presented a paper entitled: "Decision Support within Complex Systems: An Experimental Approach Using the STRATEGEM-2 Computer Game," which presented a major discovery of how participant motivation levels can have masking effects on decision support interventions.

**Dr. Edwina Campbell** served as guest speaker for the US Department of State on two occasions in 2004. In May, she spoke in Munich, Berlin, Leipzig, Freiburg and other locations in Germany for the US Embassy in Berlin, and was also the guest of the Bundeswehr's Militaergeschichtliches Forschungsamt, Potsdam. In October, she spoke in Brussels, Liege, Louvain and Vienna as the guest of the US Embassies in Brussels and Vienna. While in Vienna, she also gave a guest lecture at the Austrian Defense Academy. For the US Consulate General, Munich, Dr. Campbell guest-lectured at the Universities of Munich and Regensburg in early November. She made several radio and TV appearances during her two stays in Europe. In February 2005, Dr. Campbell guest-lectured in the NATO Staff Officers' Orientation Course, National Defense University. Her commentary on the future of German foreign policy, "Berlin, Look to the World!," was published in *Weltrends*, summer 2004. As a guest scholar at the Geschwister-Scholl Institut, University of Munich, in spring 2005, Dr. Campbell will work on her new book project, with the working title of *War and American Power*. While in Europe, she will also guest-lecture at Webster University, Vienna and, among other State Department posts, for the US Consulates General in Hamburg and Munich.

**Dr. Chuck Costanzo** wrote a review of Lynn Eden's book, *Whole World on Fire: Organizations, Knowledge and Nuclear Weapons Devastation* for the *Air & Space Power Journal*, Summer 2004. Eden's book examines the devastating firestorms that would follow the detonation of nuclear weapons, a topic largely ignored in the prodigious literature on nuclear policy and strategy.

**Dr. William Dean** delivered a lecture on counter-insurgency to the Third Armor Cavalry Regiment at Fort Carson in September 2004. In October, Dr. Dean delivered a lecture on Air Power and Small Wars at the Univ. of the South in Sewanee, TN. At the Society of Military History Conference in Charleston S.C., in February 2005 commented on three papers concerning War and Society in South Africa. In August 2004, Dr. Dean published an article entitled "French Colonial Intelligence In Africa and Asia" in the *Defense Intelligence Journal*. He has reviewed Jeffrey Moore's *Spies for Nimitz* and John Prados's *Combined Fleet Decoded* for the *Defense Intelligence Journal*. Added to this he

has reviewed Robert Stephan's *Stalin's Secret War* for *Choice Magazine*. Added to the above Dean reviewed a book length manuscript on the Battles of Britain for Greenwood Press.

**Dr. Bert Frandsen's** article, "America's First Air Land Battle," won *Air and Space Power Journal's* Ira Eaker Award for academic year 2003-2004. The award honors the top article in *ASPJ* and was accompanied by a one thousand dollar cash prize from the Air University Foundation. The article shows how American fighter and observation units, for the first time, established the conditions for a successful ground offensive in 1918 at Vaux, France. Frandsen focuses on the leadership of the First Pursuit Group and the challenges they overcame in accomplishing this important milestone in air power history.

**Dr. Lewis Griffith** was named a fellow to the 2004 Fred A. Sonnderman Seminar: Homeland Security in a Multilateral Context held at the University of Denver August 8-15, 2004. The end products of the Sonnderman Seminar consisted of a 62 page report examining the issue of Homeland Security authored by the nine fellows and submitted to the sponsoring agencies, to include Northcom and the USAF INSS and a book, presently being developed, that Dr. Griffith continues to be involved with. In addition, Dr. Griffith presented his paper, "The Littoral Enforcer: Air Power and the New American Grand Strategy" at the 2004 Conference of the American Political Science Association, September 1-4, 2004 in Chicago, Illinois. Dr. Griffith wrote three book reviews in the period in question reviewing *Alaska's Hidden Wars: Secret Campaigns on The North Pacific Rim* by Otis Hays, Jr. and *Finishing Business: 10 Steps to Defeat Global Terror* by Harlan K. Ullman for the *Defense Intelligence Journal* and *America's Role in Nation-Building: From Germany to Iraq* by James Dobbins, John G. McGinn, et. al. for the *Air and Space Power Journal*. Dr. Griffith also continued to serve on the Board of the International Security and Arms Control (ISAC) Section of the American Political Science Association (APSA) and related to that role continues to serve as the lead for the website *Intlsecurity.org*, a combined product of both ISAC and the International Security Studies Sections of the International Studies Association of which Dr. Griffith is also a member.

**Major Sean M. Hackbarth** presented a guest lecture to the SOF Senior Space Course at the Joint Special Operations University (JSOU), Hurlburt Field, FL on "Future Space Systems" in April 2004. In November 2004, he presented a "Transformation and Intelligence" lecture at an Air Command and Staff College Faculty Forum. In June 2004, he assumed duties as Course Director, Space Operations Specialized Studies.

**Dr. Mary N. Hampton** authored four publications that were published: "Germany and Peacekeeping: Explaining German Power Projection 'Lite'," in David S. Sorenson and Pia Christina Wood (eds.), *The Politics of Peacekeeping in the Post-Cold War Era*, (Frank Cass Publishers, 2005); "Community Breakdown? Germany, NATO, and the Guns of September," in James Sperling (ed.) *Germany at 55* (University of Manchester, 2004); "Ladies Choice: Women and the Reelection of the Schroeder Government," in David Conradt, et al. (eds.), *Germany and the*

## Research and Publications

2002 Election (Berghahn, 2005); and, "From Rebel to Wilsonian? Joschka Fischer and German Foreign Policy," in Mareike Koenig/Matthias Schulz (eds.) *Die Bundesrepublik Deutschland und die europäische Einigung, 1949-2000: Politische Akteure, gesellschaftliche Kräfte und internationale Erfahrungen* (Franz Steiner Verlag, Stuttgart, 2004). Dr. Hampton is now working on four research projects: "Comparing US and European Approaches to Terrorism in the 1970s", for inclusion in an edited book; "Enlarging NATO to the Baltic Region", to be part of an ongoing research project and a publication; "The Wilsonian Impulse Revisited", an in-progress manuscript to be sent for publication; "Comparing US and EU Global Soft Power Projection", a project to be co-authored with Dr. Carol Atkinson; "The Balkans: An Underestimated EBO Success?", a manuscript to be co-authored with Dr. Kevin Holzhammer. Dr. Hampton authored an operational snapshot for ACSC on "The US Military Role in Assuring Free and Fair Elections". Dr. Hampton gave numerous presentations to include: participation in a workshop on Baltic security, Vanderbilt University, June, 2004; "US and German Relations: Changes Since 9/11," German Studies Association, Washington, D.C., October 2004; "NATO Enlargement: Democratizing the Baltic Area," at the Southern Political Science Association, New Orleans, LA, January 2005; Dr. Hampton is attending a conference on "empires in history" at Duke University in March, 2005, and she will attend several workshops at the American Institute for Contemporary German Studies (AICGS) in Washington, D.C., in May 2005. Dr. Hampton sat on the German Studies Executive Committee at the GSA in October 2004, reviewed manuscripts for Security Studies and German Studies Review, and was an active committee participant on two PhD defenses from the Department of Political Science, University of Utah.

**Dr. Paul Kan** had his article: "What Should We Bomb? New Targets for a New Millennium and the Abiding Limits of Airpower Theory," *Air and Space Power Journal* (Spring 2004) reprinted in the Royal Air Force's *Air Power Review* (Autumn 2004) and reprinted in the Portuguese edition of *Air and Space Power Journal* (Winter 2004). Additionally he published "The Perfect Storm: Explaining the Slow Chinese Reaction to the North Korean Nuclear Crisis," *Korea Observer* (Summer 2004); and "The Blurring of War and Crime", *Defense Intelligence Journal* (Winter 2004). His chapter, "Globalization and the Just War Tradition" was published in *War and Virtual War* (Oxford 2004). He also presented a paper, "Webs of Smoke: Drugs and Small Wars" at the Southern Political Science Association Conference in New Orleans in January 2005.

**Dr. Alexander N. Lassner** authored and published three articles, "The Will to Resist: The Combined Bomber Offensive and the Collapse of Fascist Italy" in *Centro Falisco di Studi Storici*, vol. 4 (Forthcoming, Laterza, 2005), "Austrian Military Attachés Evaluation of British, French, and Italian Military Capabilities in the Pre-WWII Years: Lessons for Today's Analysis" in *Defense Intelligence Journal*, vol. 12, no. 2, 2003, and "Austria between Mussolini and Hitler: War by Other

Means" in *Contemporary Austrian Studies*, vol. 13, (Forthcoming, Transaction, 2005). He presented modified versions of these papers at two conferences: "Austria between Mussolini and Hitler: Austrian Security Policy between the Wars" at the Twenty-Eighth Annual Conference German Studies Association in October 2004; and "The Will to Resist: The Combined Bomber Offensive and the Collapse of Fascist Italy" at the Air and Space Power Conference, Air Command and Staff College, at Maxwell AFB in March 2004. In February 2005 he attended the Society for Military History Conference in Charleston, South Carolina. Dr. Lassner reviewed several books, including Rick Atkinson's *An Army at Dawn* (a book on the CSAF's reading list) for the CSAF Executive Action Team (HAF/CX), and, more recently, W. J. R. Gardner's *Decoding History: The Battle of the Atlantic and ULTRA for the Defense Intelligence Journal*, vol. 13, no. 1 & 2, 2005. He also reviewed the manuscript titled *Der Irakkrieg 2003* for possible publication with Air University Press. During the summer of 2005 Dr. Lassner will be a visiting professor of history at the summer program in Innsbruck, Austria which is run jointly by the University of New Orleans and the University of Innsbruck. While there he will teach courses in Modern Military History and World War II.

**Dr. (Colonel) Kathleen Mahoney-Norris** completed a book review on *America's Viceroy: The Military and US Foreign Policy*, to be published in the *Defense Intelligence Journal*, 2005. She served as chair and discussant for the panel on "Political Parties, Voter Turnout and Clientalism: Lessons from Latin America and Turkey," at the annual meeting of the Southern Political Science Association, New Orleans, January 2005. She will present a paper on "The Ethics and Politics of Human Rights: The Cuban Case," at the conference on Politics and Ethics: An Interdisciplinary Exploration of Contemporary Issues, University of Southern Mississippi, March 2005.

**Dr. Richard R. Muller** published a chapter entitled "The Origins of MAD: A Short History of City Busting," in Henry D. Sokolski (ed.), *Getting MAD: Nuclear Mutual Assured Destruction, Its Origins and Practice* (Carlisle Barracks, PA: Strategic Studies Institute, November 2004): 15-50. He served as a manuscript referee for *Air & Space Power Journal* and the University of Alabama Press.

**Dr. Douglas Peifer** published "From Enemy to Ally: Reconciliation Made Real in the Post-War German Maritime Sphere" in *War in History*, vol. 12, nr. 2, as well as eight reviews on monographs pertaining to international security and military history in *The International Journal of Maritime History*, the *German Studies Review* and the H-War and H-German online scholarly review resource project (<http://www.h-net.org/reviews/>). He organized a panel on "Mutiny, Desertion and Insubordination" for the Society of Military History conference in Charleston, SC (Feb 2005), presenting a paper on "Rhetoric and Reality: The German and British Deserter Debates and the Historic Record." At Air Command and Staff College, he presented a "Great Battles" lecture on the Battle of Berlin, followed by a faculty forum on "German Attitudes toward Airpower: Memory, Current Politics, and the Legacy of

## Research and Publications

the Combined Bomber Campaign.” In addition, Peifer mentored and served as adviser for nine student research papers ranging from “Demobilization as a Cause of Mutiny” to “Desertion and Unrest in the War on Terror.”

**Lt Col (PhD) Tomislav Ruby** was invited to University of Kentucky (14 Jan 05) and Emory University (4 Mar 05) to Brief “Political and Military Considerations for Campaign Planning in Iraq.” Both trips were funded by the respective universities and were publicly advertised and positively covered by local media. Presented his post-deployment OIF after-action briefing to the Air Force Doctrine Center on 28 Jan 05 and CADRE 3 Mar 05. Selected by ACSC/CC to brief inaugural Chiefs’ Leadership Course at the AF Senior NCO Academy on USAF Future Concepts and Capabilities. Discussed the AF roadmap with approximately 100 new Chiefs and Chief-selects. Completed book manuscript for Cambridge Press titled: “Waging Mor(t)al War: Making Moral Targeting Decisions in Modern Conflict.” Began collaboration with Maj (PhD) Tom Mowle, USAFA, on writing and editing a volume on the long-term international political and military implications of decision-making by the Multinational Force and Diplomatic Missions in Iraq.

**Dr. Matthew Schwonek** authored reviews of *The Finnish Guard in the Balkans: Heroism, Imperial Loyalty and Finnishness in the Russo-Turkish War of 1877-1878 as Recollected in the Memoirs of Finnish Guardsmen*. Laitila, Teuvo. *Russian Review* 64, no. 1 (January 2005) and *Harvest of Despair: Life and Death in Ukraine Under Communist Rule* by Karel Berkhoff. *Journal of Military History* 69, no. 1 (January 2005): 266-267. He also presented the paper “‘The Legions Have Fulfilled their Function’ The Crisis of the Polish Legions, September 1915-September 1916” at the American Association for the Advancement of Slavic Studies, Boston, Mass., December 2004. At the meeting he also joined the roundtable “The Warsaw Uprising in Historical Perspective.” Dr. Schwonek has the article “Kazimierz Sosnkowski as Commander in Chief: The Government in Exile and Polish Strategy, 1943-1944” still under revision for the *Journal of Military History*. He was also invited by the Polish Academy of Sciences to present this manuscript at a conference in Wroclaw, Poland in November 2005.

**Dr. Chris Toner** published an article entitled, “Just War and Graduated Discrimination,” in the Fall 2004 *the American Catholic Philosophical Quarterly*. He also has several other forthcoming articles including, “Just War and the Supreme Emergency Exemption,” forthcoming in *The Philosophical Quarterly*, “The Sin of the Angels and the Fate of Eudaimonism: Aquinas, Scotus and the genesis of some central objections to contemporary virtue ethics” forthcoming in *The Thomist* and “Aristotelian Well-Being: A Response to L.W. Sumner’s Critique,” forthcoming in *Utilitas*. In addition to his forthcoming articles, he has two reviews forthcoming including, “Review of Martin Cook’s *The Moral Warrior: Ethics and Service in the US Military*,” forthcoming in the *Air & Space Power Journal* and “Review of Jean Bethke Elshtain’s *Just War Against Terror*,” forthcoming in the *Air & Space Power Journal*.

**Dr. Michael Weaver** presented the paper “The Relationship Between Diplomacy and Military Force: An Example from the Cuban Missile Crisis” at the Society for Historians of Foreign Relations annual conference at the University of Texas at Austin in June, 2004. In September he delivered an ACSC Faculty Forum on new revelations surrounding the Cuban Missile Crisis.

ACSC student research studies are included in the summary at the end of this *Bulletin*.



## USAF National Defense Fellows

### AY 05 Continues the Walker Series Research Paper Awards

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

Each of this year’s AY05 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 their respective institutions, the Fellows skillfully provided defense insights on a wide spectrum of critical national security policy issues such as ongoing operations in Iraq and the future of strategic alliances. Their involvement included:

- Participating in national security forums and working groups
- Providing media interviews, lectures and speeches,
- Hosting seminars, workshops and wargames and,
- Aiding the development of UAVs and other technical aspects of modern combat

Air Force Fellows also had unique access to senior civilian and military leaders across two countries. This enabled them to increase their national security policy expertise and 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 involvement, each AFF also conducted cutting edge research on issues vital to national security. Their research represents significant scholarly advancement of thought on crucial defense policy and strategy issues. Furthermore, their evaluation of processes and policy is invaluable to future US national security issues. Finally, Fellows were also instrumental in furthering work undertaken by prestigious private research institutions, academic institutions, and industry organizations

## Research and Publications

such as RAND, the Brookings Institution, the Center for Strategic and International Studies, Harvard, and 3M.

As in the past, this year's AFF program will honor 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 and space power and its use in the implementation of US strategic policy. Judging by past experience, this year's competition will be extremely tough. The topics for this year's class cover a wide array of subjects—indicating there certainly are diverse interests among the AF Fellows.

The topics for this year's class cover a wide array of subjects—indicating there certainly are diverse interests among the AF Fellows.

*The Air Force International Affairs Specialist Program*—Lt Col David C. Frazee, International Security Studies Program, The Fletcher School of Law and Diplomacy, Tufts University, Medford MA

*Winning Counterinsurgency Campaigns*—Lt Col Preston M. Plous, Department of Defense Analysis (DDA), Naval Postgraduate School, Monterey CA

*Information Warfare Arms Control: Risks And Costs*—Lt Col Maxie C. Thom, Department of International Relations, Florida International University, Miami FL

*Chinese National Security Strategy: Implications For A 21st Century Air Force*—Lt Col Kevin B. Wooton, Hoover Institution on War, Revolution, and Peace, Stanford University, Stanford CA

*The Proliferation Security Initiative: What Comes Next?*—Col David A. Simon, Weatherhead Center for International Affairs (WCFIA), Harvard University, Cambridge MA

*Harnessing the Military's Voice: Improving US Public Diplomacy*—Lt Col Annette N. Foster, John F. Kennedy School of Government, Harvard University, Cambridge MA

*Blues To Civvies: Morphing The Military Profession*—Lt Col Cynthia J. Grey, Institute for National Security Studies (INSS), United States Air Force Academy, USAF Academy CO

*Outsourcing The Air Force Mission—A Strategy For Success*—Col William G. Palmby, Foreign Policy Studies Program, Brookings Institution, Washington DC

*Coalition Of The Willing... Coalition Of The Able? A Case To Reform US Export Policy*—Lt Col James J. Ravella, , The Washington Institute (TWI), Washington DC

*Effects-Based Culture*—Col (sel) Mark C Nowland, John M. Olin Institute for Strategic Studies, Weatherhead Center for

International Affairs (WCFIA), Harvard University, Cambridge MA

*Effects-Based Culture Beyond Al Qaeda: Islamic Terror In Southeast Asia*—Lt Col Wayne A. Larsen, Institute for the Study of Diplomacy (ISD), Edmund A. Walsh School of Foreign Service (SFS), Georgetown University, Washington DC

*Contractors on the Battlefield a Legal Primer 2005 – 2007*—Lt Col Alison M. Weir, Office of General Counsel, the US Sentencing Commission, United States Supreme Court, Washington DC

*A Future North American Defense Arrangement: Applying A Canadian Defense Policy Process Model*—Lt Col David A. Miller, Centre for International Relations (QCIR), Queens University, Ontario CANADA

*Strengthening North American Security: A Strategy to Engage Mexico*—Maj Lawrence J. Spinetta, Washington Office, Council on Foreign Relations, Washington DC

*Airpower in the Asia-Pacific...A Bridge Too Far?*— Col (sel) John P. Horner and Lt Col David M. Delgado, John F. Kennedy School of Government, Harvard University, Cambridge MA

*NATO, EU, USA: Getting What We Want From Old, New and United Europe*—Col Christopher E. Haave, New York Office, Council on Foreign Relations, New York NY

*Russia and the US-Led Global War on Terrorism (GWOT)*—Col (sel) Eric A. Beene and Lt Col Jeffrey J. Kubiak, Institute for the Study of Conflict, Ideology, and Policy (ISCIP), Boston University, Boston MA

*The Future Of NATO-Russian Relations: Or, How To Dance With A Bear And Not Get Mauled*—Lt Col Gordon B. Hendrickson, , Atlantic Council of the United States (ACUS), Washington DC

*Intelligence Reform: A Question of Balance*—Lt Col John D. Bansemer, Program on Information Resources Policy (PIRP), Harvard University, Cambridge MA

*Goldwater-Nichols II: It's the Interagency's Turn...Transforming the Conduct of National Security*—Col (sel) Robert F. Bussian, Strategy, Forces and Resources Division (SF&RD), Institute for Defense Analyses (IDA), Alexandria VA

*Reforming The Interagency Process*—Lt Col Ted T. Uchida, Ridgway Center for International Security Studies, University of Pittsburgh, Pittsburgh PA

*Is the US Ready to Wage the Third Battle in Space?*—Lt Col Scott A. Henderson, Security Studies Program (SSP), Massachusetts Institute of Technology (MIT), Cambridge MA

## Research and Publication Opportunities

*NATO & Iraq: Factis Non Verbis*—Lt Col Kurt W. Schake, Program in Arms Control, Disarmament and International Security (ACDIS), University of Illinois, Champaign IL

*Reshaping America's Nuclear Weapons Stockpile*—Maj Patrick W. Davis, Lawrence Livermore National Laboratory, Air Force National Laboratories Technologies Fellowship, Livermore CA

*Predict\*: An Innovative Reliability Methodology Applied To The DOD Acquisition Process*—Lt Col Jeffrey L. Schaff, Los Alamos National Laboratory, Air Force National Laboratories Technologies Fellowship, Los Alamos NM

*The Sharpest Sword: Coercion, Terrorism, and Case Studies in Compellence*—Col (sel) Michael T. Plehn, International Security, Center for Strategic and International Studies (CSIS), Washington DC

*Crisis—A Leadership Opportunity*—Col (sel) John P. Powell and Lt Col Michael G. Robbins, John F. Kennedy School of Government, Harvard University, Cambridge MA

*Strategic Mobility Innovation: Options and Oversight Issues*—Lt Col Jon D. Klaus, Foreign Affairs, Defense and Trade (FDT), Congressional Research Service (CRS), Library of Congress, Washington DC

*Military Combat Outsourcing – Implications for Combat Effectiveness and the Defense Budget*—Col (sel) Scott F. Shepherd, Foreign Affairs, Defense and Trade (FDT), Congressional Research Service (CRS), Library of Congress, Washington DC

*Transformational Teams: Developing Minds...Engaging Hearts For A Changing World*—Col (sel) John E. Michel, Strategy, Forces and Resources Division (SF&RD), Institute for Defense Analyses (IDA), Alexandria VA

*Think Tank Agenda Setting: The Influence of The Council on Foreign Relations on Elections, The New Administration's Transition Agenda, and Beyond*—Lt Col Maria L. Carl, Washington Office, Council on Foreign Relations, Washington DC

Papers produced by the AF Fellows in 2004 are included in the summary at the end of this *Bulletin*.



## College of Aerospace Doctrine, Research and Education (CADRE)

### CADRE's Airpower Research Institute

By Colonel Dale Hayden, Director (Until June 2005)

Airpower Research Institute (ARI) is one of six directorates of CADRE. ARI fulfills an important role in AU by acting as a “cradle to grave” system for research—research made available both in print and electronically. The institute not only solicits and publishes research but also carries out its own research projects and supports other AU research programs.

The AU Dean of Research's office operates out of ARI with the mission of “creating research opportunities that promote professional development and produce innovative thinking on critical military issues.” To accomplish this mission, the dean works closely with research directors in AU schools, the AU Air and Space Power Research Board, ARI's Research Division and ARI's Development Division.

The Professional *Journals* Division promotes discussion, debate, innovative thinking and good writing on a wide range of issues relating to air and space power. It produces four versions of the quarterly *Air and Space Power Journal (ASPJ)*—the English, Spanish, Arabic and Portuguese editions. The division also publishes the only on-line chronicles journal. These journals not only solicit scholarly articles and original research but also provide venues for publishing those pieces.

The task of producing timely research falls to the Research Division of ARI. This division consists of a small group of military defense analysts who research topics of interest to the USAF. The division publishes the *ARI Papers and Quick-Looks*.

CADRE's ARI reaches across the spectrum of research needs. It joins the Air Force's other research centers in providing both a stimulus for original research and a vehicle for presenting the results of that research.

### The CADRE Papers, ARI Papers and Quick-Looks

By Dr. Daniel Mortensen, Series Editor

*CADRE Papers*, *ARI Papers* and *Quick-Looks* are occasional publications sponsored by CADRE's Airpower Research Institute. All are dedicated to promoting understanding of air and space power theory, doctrine and application. *CADRE Papers* are published by AU Press; *ARI Papers* and *Quick-Looks* by CADRE's ARI directorate. Studies from all series are broadly distributed to the USAF, the Joint Staff and Joint

## Research and Publication Opportunities

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 Web at <https://research.au.af.mil/> or <http://research.airuniv.edu>.

An older *CADRE Paper* series (1985-90) is available on this electronic site as is the revived series starting in 1998. The current series is also generally available in hard copy from the AU Press.

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

Seven new *CADRE Paper* has been published since May 2004:

- *What Happened to Battlefield Air Interdiction? Army and Air Force Battlefield Doctrine Development from Pre-Desert Storm to 2001*, by Lt Terrance J. McCaffrey III, no 17.
- *Unmanned Airlift, A Viable Option for Meeting the Strategic Airlift Shortfall*, Lt Col Chad T. Manske, no 18.
- *Time-Critical Targeting, Predictive versus Reaction Methods: An Analysis for the Future*, by Lt Col Aldon E. Purdham, Jr., no. 19.
- *Military Chaplains as Peace Builders, Embracing Indigenous Religions in Stability Operations*, Chaplain (Col) William Sean Lee, Lt Col Christopher J. Burke and Lt Col Zonna M. Crayne, no 20.
- *Understanding Islam and Its Impact on Latin America*, Lt Col Curtis C. Connell
- *Creech Blue: Gen Bill Creech and the Reformation of the Tactical Air Forces, 1978-1984*, Lt Col James C. Slife

(The *Creech Blue* ms was published with special considerations as a joint AU Press and CADRE publication)

### The Air Staff and Senior AF Leaders Commission the *ARI Papers*

Originally conceived to provide independent analysis of a wide range of issue related to airpower theory, doctrine, and employment, the *ARI 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 *ARI Papers* have been published since May 2003:

- § *The Paradigm Shift to Effects-Based Space: Near Space Capabilities to Support Effects Based Operations*. Lt Col Edward B. Tomme, ARI Paper 2003-01
- § *The Evolution of Time Sensitive Targeting: Operation Iraqi Freedom Results and Lessons*, Lt Col John M. Fyfe.

This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

### A New Research and Publication Tool with “*Quick-Looks.*”

In the last few months of 2003, the director of ARI, Col Dale L. Hayden, conceptualized a project with which CADRE could undertake brief investigations of potentially important ideas and courses of action that can help the Air Force look forward, especially in regards to Concept of Operations. These resulting two-page papers, called Quick-Looks, help analysts hone and conceptualize their ideas and with a selective distribution hopefully get feedback that can guide continuing research. Analysts from CADRE, SAASS, ACSC and some beyond Maxwell produced a few dozen in 2004, with examples such as:

- *Low-cost Access to Space—Is it Possible?*  
by Major Kendall Brown
- *Airspace Management In Global CONOPS*, by Alexander M. Wathen

Papers produced by the Airpower Research Institute in 2004 are included in the summary at the end of this Bulletin.

## Air and Space Power Journal

By Lt Col Paul Berg, *ASPJ* Editor

The Airpower Research Institute (ARI), part of the College of Aerospace Doctrine, Research and Education (CADRE), publishes *Air & Space Power Journal (ASPJ)* and its online companion *Chronicles Online Journal* at Maxwell Air Force Base, Alabama in concert with Air University Press. Taken together, *ASPJ* and *Chronicles Online Journal* are the professional journal of the USAF and leading forum for worldwide air and space power dialogue.

We publish English, Spanish, Portuguese and Arabic language *ASPJ* editions. A French language version is scheduled to begin publication in 2005. Each language edition has its own personality and unique content selected by editors who are native-speaking, regional experts. The English language *ASPJ* and *Chronicles Online Journal* foster intellectual and professional development for members of the USAF and the world's other English-speaking militaries. The other *ASPJ* language editions serve the same professional needs for air forces, armies, and navies in Latin America, Africa, the Middle East, Asia, and Europe.

You can receive *ASPJ* three ways. First, the journal is published in hardcopy form. It is also available on-line at our *Air and Space Power Chronicles* web site, [www.airpower.au.af.mil](http://www.airpower.au.af.mil). That web site contains back issues of all *ASPJ* editions and is fully indexed and searchable. Finally, you can obtain free e-mail subscriptions to the English and Spanish language *ASPJs*. E-mail subscribers receive a quarterly e-mail containing a table of contents with links to the full-text articles in each new *ASPJ* issue. To subscribe to the journal's paper or E-mail versions, go to:

# Research and Publication Opportunities

[http://www.airpower.au.af.mil/airchronicles/howto.html#apjsubs\\_cribe](http://www.airpower.au.af.mil/airchronicles/howto.html#apjsubs_cribe).

We're always looking for good, thought-provoking articles 2,500 to 5,000 words in length, written in any of our published languages. The English edition seeks well-researched articles from anywhere in the world that analyze current and future challenges facing the US Air Force and recommend solutions. The other *ASPJ* language editions seek articles covering a broader range of topics than the English edition. If you wish to contribute an article, please see our article submission guidelines at:

<http://www.airpower.maxwell.af.mil/airchronicles/howto1.html#submissions>.

*ASPJ* also publishes reviews of newly-published books about military topics. Good book reviews allow busy professionals to see one opinion of a work before investing time reading the book themselves. Reviews capture the book's main points and offer critical assessments. If you want to write a book review, see the list of available books (you get to keep the book in exchange for writing the review) and our reviewer guidelines at:

<http://www.airpower.au.af.mil/airchronicles/bookmain.html>

## AU Library

By Terry L. Hawkins, Reader Services Division

The following is a list of selected special bibliographies posted on the Air University Library webpage in 2004:

\*al-Aqsa Intifada 2000

<http://www.au.af.mil/au/aul/bibs/alaqsa.htm>

\*Asymmetric Warfare

<http://www.au.af.mil/au/aul/bibs/asw/asw.htm>

\*Base Realignment and Closures

<http://www.au.af.mil/au/aul/bibs/brac/brac.htm>

\*Distance Learning in the Military

<http://www.maxwell.af.mil/au/aul/bibs/distance/dltoc.htm>

\*Ethics and the Military

<http://www.au.af.mil/au/aul/bibs/ethics.htm>

\*Humanitarian Intervention and Assistance

<http://www.au.af.mil/au/aul/bibs/human.htm>

\*Military Transformation

<http://www.au.af.mil/au/aul/bibs/miltrans/trans.htm>

\*Non Lethal Weapons

<http://www.au.af.mil/au/aul/bibs/soft/nonlethal.htm>

\*Operation Iraqi Freedom-Lessons Learned

<http://www.au.af.mil/au/aul/bibs/oifll.htm>

\*Suicide Terrorism

<http://www.maxwell.af.mil/au/aul/bibs/terrsuic/suite.htm>

A complete listing of AU Library bibliographies is available to the Air University research community at:

<http://www.au.af.mil/au/aul/bibs/bib97.htm>

In July of 2004, Air University Library brought a SIPRNET workstation online to support faculty and student research. SIPRNET is a classified version of the Internet maintained by the Defense Information Systems Agency (DISA). Personnel

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desiring access to the SIPRNET must have a Secret Clearance and a SIPRNET account. The AU Library SIPRNET workstation, located in Room 160, is available Monday-Friday 0800-1630.

AU Library continues to offer the Air University Academic Community the best electronic resources available. In 2004, we added the Declassified Documents Reference System, Encyclopedia Britannica Espanol, H.W. Wilson Biography Reference Bank, Gallup Brain, Military Science & Technology in China Online, United Nations Common Database Online, and Keesing's Worldwide Online to our database lineup. A complete listing of AUL database subscriptions and access information is available at:

<http://www.au.af.mil/au/aul/dbases>

Air University Library resources and links to subject matter specialists are also available through the Air Force Portal under the Library Tab. Researchers can link to AUL for reference librarian assistance, access the Library's Map Room, or download AU Press publications.

As Air University achieves recognition as the Intellectual Center of the Air Force, AU Library will bring the very best information resources to the Air Force community of scholars and warfighters.

## AU Press Publications

By Dr. Marvin Bassett, Journals Editor

AU Press, a division of AU Library, publishes school-selected student papers, faculty research efforts, textbooks and curriculum-related materials, as well as the *AU Catalog* and other administrative documents that directly support AU PME. Among the series of school-sponsored papers we support are the AWC Maxwell Papers, ACSC Wright Flyers and CADRE Papers, as well as SAASS theses. In addition, AU Press sponsors the Fairchild Papers, selected essays of research value to the Air Force that otherwise would not be published. The press will also support the new Walker Papers sponsored by CADRE. Two titles scheduled for publication later this year as part of that series include:

- *Transnational Crime and the Criminal-Terrorist Nexus*, Walker Paper no. 1, by Col Jennifer L. Hesterman
- *The Revenge of Europe: NATO and the Transatlantic Relationship in the Era of the European Union*, Walker Paper no. 2, by Lt Col Christopher D. Cotts

Recently published monographs include:

- *Tanker-Force Structure: Recapitalization of the KC-135*, Maxwell Paper no. 32, by Lt Col Juan C. Narvid
- *Aviation Urban Operations: Are We Training Like We Fight?* Maxwell Paper no. 33, by Lt Col Todd G. Kemper

## Research and Publication Opportunities

- *Looking Skyward: The Emergence of an Air-Minded Culture in the US Army*, Wright Flyer Paper no. 17, by Maj Ronald G. Machoian
- *On the Wings of the White Eagle: Poland's Air Force Reform and Modernization, 1989–2001*, Wright Flyer Paper no. 18, by Lt Col Pamela J. Wolosz
- *The Expeditionary Airfield as a Center of Gravity: Henderson Field during the Guadalcanal Campaign (August 1942–February 1943)*, Wright Flyer Paper no. 19, by Maj Jeff D. Philippart
- *Armageddon's Lost Lessons: Combined Arms Operations in Allenby's Palestine Campaign*, Wright Flyer Paper no. 20, by Maj Gregory A. Daddis
- *What Happened to Battlefield Air Interdiction? Army and Air Force Battlefield Doctrine Development from Pre–Desert Storm to 2001*, CADRE Paper no. 17, by Lt Col Terrance J. McCaffrey III
- *Unmanned Airlift: A Viable Option for Meeting the Strategic Airlift Shortfall*, CADRE Paper no. 18, by Lt Col Chad T. Manske
- *Time-Critical Targeting: Predictive versus Reactionary Methods: An Analysis for the Future*, CADRE Paper no. 19, by Lt Col Gregory S. Marzolf
- *Military Chaplains as Peace Builders: Embracing Indigenous Religions in Stability Operations*, CADRE Paper no. 20, by Chaplain (Col) William Sean Lee, Lt Col Christopher J. Burke, and Lt Col Zonna M. Crayne
- *Understanding Islam and Its Impact on Latin America*, CADRE Paper no. 21, by Lt Col Curtis C. Connell
- *The Art of Aerial Warfare*, Fairchild Paper, by Col David A. Moore.

AU Press also publishes books and other research and educational materials under the guidance of the AU Publications Review Board, at the instruction of higher-level headquarters, and in cooperation with Air Force agencies. Recent titles include *Interagency Fratricide: Policy Failures in the Persian Gulf and Bosnia* by Maj Vicki J. Rast; *Technology and Military Doctrine* by Maj Gen I. B. Holley Jr., USAFR, retired; *Air-to-Ground Battle for Italy* by Brig Gen Michael C. McCarthy, USAF, retired; and *Creech Blue: Gen Bill Creech and the Reformation of the Tactical Air Forces, 1978–1984* by Lt Col James C. Slife.

AU Press will soon publish several works of interest to the air and space community. These include *A War of Their Own: Bombers over the Southwest Pacific* by Capt Matthew K. Rodman; *Circling the Earth: United States Plans for a Postwar Overseas Military Base System, 1942–1948* by Elliott V. Converse III; *Archie to SAM* (revised edition) by Kenneth Werrell; *Into the Unknown Together: The DOD, NASA, and Early Spaceflight* by Lt Col Mark Erickson; and AU-1, *Air University Style and Author Guide* (revised edition).

Printed copies of our products are available at the AU Press Bookstore, 131 West Shumacher Avenue, Maxwell AFB, AL 36112-6615. Electronic copies are available via our Web site at <http://aupress.maxwell.af.mil>. For a printed or electronic copy of the *Air University Press Publications* catalog, please contact the bookstore at 334-953-2773, DSN 493-2773, or fax us at 334-953-6862. If you have a completed manuscript you would like us to consider for publication, please submit it to the AU Press deputy director at the address shown above, or contact the director, Dr. Shirley Laseter, at 334-953-2505, DSN 493-2505.

### USAF Institute for National Security Studies (INSS), (USAF Academy)

By Dr. James M. Smith, Director

The mission of the Air Force Institute for National Security Affairs (INSS) is “to promote national security research for the Department of Defense within the military academic community, to foster the development of strategic perspective within the United States Armed Forces, and to support national security discourse through outreach and education.” Its research focuses on military policy issues relevant to the following areas: arms control and strategic security; counter-proliferation and force protection; combating terrorism and homeland security; air and space issues and planning; information operations and information warfare; and regional and emerging national security issues.

INSS coordinates and focuses thinking from across the military academic community to develop new ideas for defense policy making. INSS fosters strategic partnerships with institutions such as Air University in its development of topics, selection of researchers and administration of sponsored research. It also hosts conferences and workshops and facilitates the dissemination of information to a wide range of private and government organizations. For FY04 INSS sponsored research by nine AU resident students, faculty and staff and Fellows; by seven Air War College non-resident students; and by eight non-Maxwell assigned Intermediate Developmental Education graduate students.

#### INSS publications in conjunction with AU:

Stephen Burgess, *India's Emerging Security Strategy, Missile Defense, and Arms Control*, INSS Occasional Paper #54, June 2004.

### Air Force Journal of Logistics

By Beth F. Scott, AFJL Editor

The *Air Force Journal of Logistics* is the professional logistics publication of the Air Force. We provide an open forum for presenting research, innovative thinking and ideas/issues of concern to the Air Force and civilian logistics communities.

The *Journal* is distributed worldwide. It reaches all segments of the Air Force and nearly all levels of the Department of Defense

## Research and Publication Opportunities

and US Government. You'll also find the *Journal* is read by foreign military forces in 26 countries, people in industry and students at universities with undergraduate and graduate programs in logistics.

We have a strong research focus, as our name implies, but that's not our only focus. Logistics thought and history are two of the major subject areas you'll find in the *Journal*, and by no means are these areas restricted to just military issues or are our authors all from the military.

The AFJL staff also produces and publishes a variety of high-impact publications—books, monographs, reading lists and reports. That's part of our mission—address logistics issues, ideas, research and information for aerospace forces.

Unsolicited manuscripts are welcome from any source (civilian or military). They are subject to expert and peer review, internally and externally, to ensure technical competence, accuracy, reflection of existing policy and proper regard for security. Manuscripts should be from 1,500 to 5,500 words. The preferred method of submission is via electronic mail (e-mail) to [editor-AFJL@maxwell.af.mil](mailto:editor-AFJL@maxwell.af.mil). Manuscripts can also be submitted in hard copy to the *Air Force Journal of Logistics*, 501 Ward Street, Gunter Annex, Maxwell AFB AL 36114-3236. If this method is used, a 3.5-inch disk, Zip disk or compact disk containing an electronic version of the manuscript should accompany the hard copy. For further information on writing and submitting a manuscript, contact the AFJL staff at DSN 596-2335/2353/2357 or Commercial (334) 416-2335/2353/2357.

### On the Internet

In addition to the printed magazine, we also have an online version of the *Journal*, which can be downloaded or read via any standard Web-based browser at <http://www.afma.hq.af.mil/lgj/Afjlhome.html>.

### Ordering Information

US Government organizations, employees of the US Government, or colleges and universities with undergraduate or graduate programs in logistics should contact the AFJL editorial staff for ordering information: DSN 493-0885/0887 or Commercial (334) 953-0885/0887. *AFJL* subscriptions are available through the Superintendent of Documents, US Government Printing Office, Washington DC 20402. Annual rates are \$15.00 domestic and \$18.75 outside the United States. The AFJL editorial staff maintains a limited supply of back issues.

## Air University Instruction on Research and Publication

*By James A. Harris, Chief, CADRE's Development Division*

AUI 36-2321 Research and Publication specifies responsibilities and establishes procedures for research and publication at Air University, specifically the Continuum of Officer Professional Military Education schools and colleges, School for Advanced

Air and Space Studies and the Air Force Fellows. It defines relationships between AU; the AU Dean of Research; the College of Aerospace Doctrine, Research and Education; the AU Air and Space Research Board (ASPRB); the ASPRB Working Group; as well as the Center for Strategy and Technology, the Counter-proliferation Center and the Air University Library/Air University Press. This instruction further applies to any other AU organization that may undertake research and publication. This instruction defines the Air and Space Research Board (ASPRB) and the ASPRB working Group (ASPRB-WG).

The ASPRB consists of AU/CC (Chair), AU Dean of Research (Executive Director), AU/CF, Commandants and Commanders of AU Research organizations. The ASPRB seeks to create research opportunities that will sharpen the minds of rising air and space leaders and produce innovative thinking on critical military issues. The ASPRB meets as required, but at least semiannually (Spring and Winter).

The ASPRB-WG consists of the AU Command Chairs, the Chiefs of Research and Publication of the AWC, ACSC and SAASS; a representative of the Air Force Doctrine Center and the directors of other AU research organizations, including CADRE/Airpower Research Institute, AU/Center for Strategy and Technology, AF Counter-proliferation Center, AF Fellows Chief and the AU Library. The working group helps in the solicitation of topics from the MAJCOMs, determines if any topics from the previous year should be retained, reviews abstracts of recent AU papers and keeps CADRE informed of any issues which would help provide better services. The ASPRB-WG also advises ASPRB on issues related to research and publication at AU and helps coordinate the AU Research Agenda.

## AU Research at Maxwell

Each year the Air University commander invites senior DOD, Air Force, and sister service leaders to propose research topics for the incoming classes at Air University. This report seeks to provide AU research sponsors with feedback on the resulting research papers. The studies in the report represent just-completed student projects that (1) directly address research topics submitted from the field or (2) were initiated at AU and may contribute to field requirements.

This report is organized to facilitate finding research related to a given topic. Because some papers may relate to more than one topic, they may appear more than once in this report.

To speed the availability of reports to our sponsors, the papers listed in this report are available now via the SIPRNET at:

<http://research.maxwell.af.smil.mil>

As soon as each paper is cleared for public release, it will be posted on the Internet on the AU Research Web (<https://research.maxwell.af.mil>). Since copies on this Internet site will be unclassified, we advise first checking the Internet site for papers of interest. Technical help for using either of these sites is available at DSN 493-5904 COM (334) 953-5904.

Because there may be a problem with some people accessing the “.mil” site we have opened another copy of the AU Research Web at:

<http://research.airuniv.edu>

A detailed AFIT Research Report is available at: <http://en.afit.edu/enr/>

Comprehensive list of AU research for 2004



# Research and Publication Opportunities

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### School Abbreviations

AFF	Air Force Fellows
ARI	Airpower Research Institute (CADRE)
ACSC	Air Command & Staff College
AWC	Air War College
SAASS	School for Advanced Air & Space Studies

### *Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center*

Requested Topic	Title of Paper	Author	School
Coalition Interoperability in Command and Control	Key Characteristics Effecting Command and Control For Multinational Operations Involving US Military Forces	Michael A. Canna	AFF
USAF Experimentation— Achieving Equal Results with Smaller, More Frequent Experiments	Large Package Week: Providing Transformational Training Through Joint Experimentation	William A. Spangenthal	ACSC
Experimentation: A Multi-Service Comparative Study	Large Package Week: Providing Transformational Training Through Joint Experimentation	William A. Spangenthal	ACSC
Need for Doctrinal Roots in Experimentation	Large Package Week: Providing Transformational Training Through Joint Experimentation	William A. Spangenthal	ACSC

### *Air Education and Training Command*

Requested Topic	Title of Paper	Author	School
Analyze Two Organizations that Perform Similar Functions, One Outsourced and One DOD, to Determine the Benefits and Drawbacks of Each	Relationship Between DOD and Homeland Security to Protect Homeland	Frederick Sisk	AWC

Requested Topic	Title of Paper	Author	School
Optimize flying training with respect to capacity, cost, end product, syllabi <i>versus</i> Future Warfare, and/or Length of Training	Training to Prepare for the Challenges of Fourth Generation Warfare	Francisco Rosario	ACSC
	Optimizing Operational Training in Virtual Battlespace for CAF	Peter Castor	AWC
Application of Automated Information Systems (AIS) in management of Air Force flying/non-flying training	Optimizing Operational Training in Virtual Battlespace for CAF	Peter Castor	AWC
Did the closure of two Air Logistics Centers during previous BRAC rounds achieve the desired efficiencies/cost reductions within the depot maintenance activity group?	BRAC, Budgets, and Blended Units	Douglas Fick	AWC
Explore revolutionary and Cost-Efficient Ways to Train Non-Pilot Aircrew in a Particular Career Field	Rethinking UAV Operator Skills: A Case for PC-Based Aviation Training Devices	James A. Brandenburg	ACSC
Define the quantitative and qualitative value of Air Force knowledge in order to focus our future programs and expenditures	The New American Way of War: Implications for Joint Strategic Attack Doctrine	John T. Hanna	ACSC

**AF Doctrine Center**

Requested Topic	Title of Paper	Author	School
USAF Targeting	Bomber Crews, Fatigue, & PGM Targeting	Edwin H. Redman	ACSC
	MQ-9 Hunter-Killer: Shortening the Kill Chain for Time Sensitive Targets	Ronald d. Senger	ACSC
	Dynamic Targeting: Controlling Chaos	Craig S. Leavitt	ACSC
	Mobile Time-Sensitive Targets: Quickly Killing the Needle in a Haystack	Jason J. Denney	ACSC
	Time-Sensitive Targeting: Improving the Critical Link between Special Forces and Airpower	Budd E. Bergloff	ACSC
	Assessing Unmanned Weapon System Capability for Engaging Time-Sensitive Targets	John E. Murphy	ACSC
	Compare USAF Targeting Doctrine with EBO Concepts and Theory	Nigel Huckins and Michael MacWilliam	AWC
	Fielded Forces: The Forgotten Strategic Target	Brian C. Copello	SAASS
Assessment	Time Sensitive Assessment	Neil T. Allen	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Broken for 13 Years: Is It Time to Fix BDA	Chris E. Hogan	ACSC
USAF Battle Damage Assessment (BDA)	Time Sensitive Assessment	Neil T. Allen	ACSC
	Broken for 13 Years: Is It Time to Fix BDA	Chris E. Hogan	ACSC
	Quick-Look: Transforming BDA: Effects-Based Assessment (EBA)	Douglas E. Lee	ARI
	Are Changes in Phase 1 BDA Needed to Accommodate EBO?	Craig Wackford	AWC
Counterland Operations	The Transformation of Counterland Employment: Sign Posts to the Future	Richard A. Coe	ACSC
Information Operations—PSYOP	Unmanned Aerial Vehicles A Key Factor in Psychological Operations Force Transformation	William M. Hardy	ACSC
	Beyond Attrition: Integrating Psychological Effects into Countercas Doctrine	Matthew C. Isler	ACSC
Strategic Attack	Strategic Attack: Controversy and Lasting Influence	Jonathan J. Greene	SAASS
	The New American Way of War: Implications for Joint Strategic Attack Doctrine	John T. Hanna	ACSC
	History and Effectiveness of Strategic Attack Operations	Brian Bjornson	AWC
	History of Strategic Attack: From Berlin to Baghdad	Timothy Strawther	AWC
Effects-Based Operations	Depicting Effects Based Warfare in an Educational War game	James R. Judkins, Brain A. Yates	ACSC
	Emerging Trends in Terrorism: The Need for Effects Based Antiterrorism	Gregory J. Reese	ACSC
	Beyond Attrition: Integrating Psychological Effects into Countercas Doctrine	Matthew C. Isler	ACSC
	Quick-Look: Transforming BDA: Effects-Based Assessment (EBA)	Douglas E. Lee	ARI
	Quick-Look: Developing a Comprehensive Effects-Based Doctrine	Douglas E. Lee	ARI
Air Space Management	Quick-Look: Can Anyone Else See Our Opportunity? Fly Iraqi Airways!	Alexander M. Wathen	ARI

### *AF Materiel Command*

Requested Topic	Title of Paper	Author	School
S and T Retention—Military	Leadership Impact on USAF ATC Retention	Thomas L. Schmidt	ACSC
The Future Role of the F/A-22 in the Air Force	A Systems Approach to Understanding the Strategic Advantage of the F/A-22 and Future Stealth Aircraft	Kenneth R. Tatum, Jr.	SAASS
Filling the Fighter/Bomber Gap: Developing a New F-16 Configuration	F-16 Modernization: Bridging the Fighter Capability Gap	Dieter E. Bareihs	ACSC
Applying lean principles to	Lean Principles to Improve Acquisition	Joanie Newhart	AWC

Requested Topic	Title of Paper	Author	School
capability based life-cycle acquisition			
Countering the anti-access, counter-air and electronic warfare threat for USAF Combat Air Forces	Future Joint Forcible Entry in an Anti-Access/ Area-Denial Environment	Steven C. Burgh	ACSC

***AF Space Command***

Requested Topic	Title of Paper	Author	School
How can we deal with the growing space debris problem?	Issues in Developing a Professional Space Cadre	James Cashin	AWC
A study to develop a plan to be able to dedicate space assets to simultaneous operations	Military Space Control: An Intuitive Analysis	Adolfo J. Fernandez	AFF
	Quick-Look: Current Operations: Options for Consideration	Robyn S. Read	ARI
	Quick-Look: The Next Phase: Air and Space Power for Current CENTAF Operations	Anthony C. Cain	ARI
	Quick-Look: A Concept of Operations and Technology Implications For Operationally Responsive Space	Kendall K. Brown	ARI
What are effective methodologies for incorporating warfighter requirements into space acquisitions	Issues in Developing a Professional Space Cadre	James Cashin	AWC
	Weaponization of Space	Laurence Burns	AWC
A study to develop a plan to be able to dedicate space assets to simultaneous operations	Quick-Look: A Concept of Operations and Technology Implications for Operationally Responsive Space	Kendall K. Brown	ARI

***AF Special Operations Command***

Requested Topic	Title of Paper	Author	School
Air Force Command and Control	Logistics Command and Control of the Operational Level	John W. Jones	ACSC
Efficient and Effective Close Air Support	Unmanned Aerial Vehicles “A Future in Close Air Support”	Chris A. McPhillips	ACSC
	Fixed Wing Close Air Support in Urban Terrain	Todd Kemper	AWC
USAF engagement in the future	Future Engagement with North Korea	Jeannie M. Leavitt	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Strategic Airlift in Future Military Operations: Assuring Continued Access	Jeffery G. Pierce	ACSC

### *Air Mobility Command*

Requested Topic	Title of Paper	Author	School
Casualty Care and Evacuation	Domestic Bioterrorism: A Gap in Health Care Integration	Gregory B. Dewolf	ACSC
Mobility air forces aircraft fleet mix	Quick-Look: Mobility Forces Aircraft Fleet Mix: A Critical Junction	Alexander M. Wathen	ARI
	Reorganizing Intra-Theater and Inter-Theater Airlift	Mark Dillon	AWC
	Mobility Air Forces Fleet Mix	Andrew Redmond	AWC
	Determining the Appropriate Mobility Air Forces Fleet	David Sprague	AWC
	Right Mix of Strategic Airlift Assets for 21st Century	James Vechery	AWC
	Analyzing Inter-Theater Airlift for 2020	Ricky N. Rupp	SAASS
Future size and need of Strategic Brigade Airlift (SBA)	Right Mix of Strategic Airlift Assets for 21st Century	James Vechery	AWC

### *Air Mobility Warfare Center*

Requested Topic	Title of Paper	Author	School
Air Mobility In-theater Operations; Planning and Tasking Responsibilities	Towards Better Airlift Forward Operating Base Establishment and Control	Harold N. Rollins	ACSC
	Planning and Tasking Air Mobility In-Theater Operations	John Holly and Robert Swisher	AWC
The Utilization of Air National Guard and Air Force Reserve Mobility Assets for the Global War on Terrorism	AEF and Homeland Security: The Air National Guard's Competing Roles	John L. Conway III	ARI
	Role of Airpower in Terrorist Reprisals	Alberto Biavati	AWC

### *Air National Guard*

Requested Topic	Title of Paper	Author	School
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Requested Topic	Title of Paper	Author	School
The Role of an Air National Guard Member in Title 10 <i>versus</i> Title 32	AEF and Homeland Security: The Air National Guard’s Competing Roles	John L. Conway III	ARI
	Dual Missioning of the Air National Guard	Trevor Noel	AWC
Potential impacts to the USAF infrastructure in continuing to maintain an aging aircraft fleet	F-16 Modernization: Bridging the Fighter Capability Gap	Dieter E. Bareils	ACSC
	“Planning to Utilize Cold war Assets in a Post-Cold War Environment”	Raymond M. Platt	ACSC
	Should the CUZZ be Considered as the Replacement Aircraft for the HH-GOG?	Michael W. Manion	ACSC
Tactical manned reconnaissance/non-traditional ISR—Do national assets provide enough flexibility at the tactical/operational level for the JFACC?	Organic or Joint? The COMAFFOR and ISR Assets	Kirk A. Kimmett	ACSC
	Quick-Look: Red Team Look at Tethered Sensors	Robyn S. Read	ARI
“Dual Missioning” of the Air National Guard	AEF and Homeland Security: The Air National Guard’s Competing Roles	John L. Conway III	ARI
	Dual Missioning of the Air National Guard	Trevor Noel	AWC

**Chief of Staff, Air Force**

Requested Topic	Title of Paper	Author	School
Using lessons learned from setting up new bases in OEF and OIF, study and recommend a process to implement deliberate and crisis action planning for expeditionary base support operations	Air and Space Expeditionary Force Crisis Action Leadership for Commanders	James P. Molloy	AFF
	Expeditionary Base Support Planning	Rodney Croslen	AWC
	Expeditionary Base Planning: Flexibility in Providing Infrastructure	Joseph Diana	AWC
	Opening a Base: Expeditionary Base Support Planning	Thomas Fitch	AWC
	Expeditionary Base Planning: Bare Base Assets	William Goad	AWC
	Base Support/Capabilities Planning: Where Are We Going?	Donna Moerschell	AWC
	First In! Expeditionary Airbase Seizure and Operations Power Projection through Mobility Warriors	Joseph W. DeMarco	SAASS

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	The Future of USAF Combat Expeditionary Basing	Todd J. Flesch	SAASS
	Expeditionary Airfield Operations Laying the Foundation for Future Success	John S. Fitzpatrick	SAASS
Evolution-revolution-or-transformation? Examine pathways to weaponization of space and assess the international impact of deploying weapons in space?	A Practical Guide to Space Strike	William M. Cashman	ACSC
	Shaping the Counter Space Industrial Capability	William U. Gillespie	ACSC
	Does “The Best Defense is a Strong Offense” Hold true for America in Space?	Christopher A. Coffelt	ACSC
	Pulling the Trigger from Space	Steven E. Ankerstar	ACSC
	Near-Space as a Combat Effects Enabler	Edward B. “Mel” Tomme	ARI
	The International Development of Space and Its Impact on US National Space Policy	Dale L. Hayden	ARI
	Issues in Developing a Professional Space cadre	James Cashin	AWC
	Weaponization of Space	Laurence Burns	AWC
What is the future Joint Warfighting Force going to look like?	The New American Way of War: Implications for Joint Strategic Attack Doctrine	John T. Hanna	ACSC
	Future Joint Forcible Entry in an Anti-Access/ Area-Denial Environment	Steven C. Burgh	ACSC
	Organic or Joint? The COMAFFOR and ISR Assets	Kirk A. Kimmett	ACSC
	Does the JSO Program Meet Joint Needs in 21st Century?	Marilyn Howe	AWC
	Army Mindedness: Finding Command Ground in No Man’s Land	Jayson Altieri	SAASS
	Understanding Defeat: How Air and Ground Formations Should Work Together to Defeat Enemy Fielded Forces	Thomas D. Colby	SAASS
	Framing the Sweet Spot: Integrating Joint Fires in the Modern Battlespace	Daniel J. Ourada	SAASS
	Airpower, Afghanistan, and the Future of Warfare: An Alternate View	Craig D. Wills	SAASS
What role could force application from space play in future military operations?	A Practical Guide to Space Strike	William M. Cashman	ACSC
	Does “The Best Defense is a Strong Offense” Hold True for America in Space?	Christopher A. Coffelt	ACSC
	Pulling the Trigger from Space	Steven E.	ACSC

Requested Topic	Title of Paper	Author	School
		Ankerstar	
	Near-Space as a Combat Effects Enabler	Edward B. "Mel" Tomme	ARI
	Quick-Look: A Concept of Operations and Technology Implications for Operationally Responsive Space	Kendall K. Brown	ARI
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
What is the state of the Air Force's Intelligence, Surveillance, and Reconnaissance (ISR) programs and platforms?	Organic Unmanned Aerial Vehicles for Special Operations ISR: A Force Multiplier	Charles B. Shea	ACSC
	The Impact of NCW on ISR Ops	Kevin M. Coyne	ACSC
	Aggressive ISR in the War on Terrorism: Breaking The Cold War Paradigm	William B. Danskine	AFF
	Transformational C2ISR: The E-10a and Implications for the Future	Yvette S. Quitno	SAASS
Analyze the path from de-confliction to Integration to interdependence.	The New American Way of War: Implications for Joint Strategic Attack Doctrine	John T. Hanna	ACSC
	Organic or Joint? The COMAFFOR and ISR Assets	Kirk A. Kimmett	ACSC
Examine the world of Information Operations (Computer Network Defense (CND) & Computer Network Attack (CNA))	Battlespace Awareness for Network Defense: Legal Framework and Operational Requirements	Martin K. Schlacter	ACSC
	Lessons for Cyberspace in The Air Corps Tactical School	Kenneth S. Crane	ACSC
	C21R- Relating Networking Centric Warfare to Platforms and Missions	David D. Johnson	ACSC
	How USAF and Space Structure has Affected CAN and CND	John Pericas	AWC
Effects-based Planning and Operations	Depicting Effects Based Warfare in an Educational Wargame	James R. Judkins, Brain A. Yates	ACSC
	Effects Based Counterair Operations: The Case for Airfield Attack	Mark A. McGeorge	ACSC
	Depicting Effects Based Warfare in an Educational War game	James R. Judkins, Brain A. Yates	ACSC
	Effects Based Leadership- A Framework for Promoting Organizational Change in a Low-Performing Squadron	Michael A. Spencer	ACSC
	Beyond Attrition: Integrating Psychological Effects into Counterair Doctrine	Matthew C. Isler	ACSC
	Emerging Trends in Terrorism: The Need for Effects Based Antiterrorism	Gregory J. Reese	ACSC
	Quick-Look: Transforming BDA: Effects-Based Assessment (EBA)	Douglas E. Lee	ARI
	Quick-Look: Developing a Comprehensive	Douglas E. Lee	ARI

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Effects-Based Doctrine		
National Security Strategy and National Military Strategy	Is a Different U.S. Military Force Structure Needed for the National Security Strategy of Today?	Troy P. Molendyke	ACSC
	China: A Constructive Partnership Strategy	John M. Griffin	ACSC
	Why the Bush Doctrine is Right Strategy for US	Bradley C. Salzman	ACSC
	Forward Deployment of US Forces and the New NSS	Jeffrey Hood	AWC
	Analysis of the Current National and Military Strategy	Henry Larsen	AWC
	Integrating Military and Diplomatic Power: Kosovo and Iraq	Donald R. Drechsler	SAASS
	National Security for the 21st Century: The Air Force and Foreign Internal Defense	Thomas D. McCarthy	SAASS
United States Space Force or Space Corps?	Impact of an Independent Space Force for the Navy	Frederick C. Goldhammer	ACSC
	Space Weapons Officers: Integral to the Cadre of Space Pro?	Daniel A. Dant	ACSC
	Separate Space Force: Launching onto the Decision Making Agenda	Eric D. Brown	ACSC
	Independent Space Force	Stephen T. Hamilton	ACSC
	Back to the Future: Education and Training for an Independent Space Force	Stephen T. Gibson	ACSC
	Legal Issues and A Separate US Space Force	John E. Ard	ACSC
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
	Bernoulians <i>versus</i> Keplerians: Is Airpower Doctrine Good Enough for Employment of Space Forces?	Daniel M. Rhoades	SAASS
Offensive and defensive counterspace capabilities of the future	Shaping the Counter space Industrial Capability	William U. Gillespie	ACSC
	Military Space Control: An Intuitive Analysis	Adolfo J. Fernandez	AFF
	Space Superiority: Using an Air Superiority Approach	Todd M. Brost	SAASS
Analyze the operations in the build up to Operation Iraqi Freedom and the actual execution of the OPLAN	OIF: An Analysis on Why Britain Participated	Christopher Liuck	ACSC
	Operation Iraqi Freedom: A Political Analysis	Daniel L. Waters	ACSC
	Operation Iraqi Freedom Phase IV Preparations	Darren B. Halford	ACSC

### *HQ AF Air & Space Operations*

This Bulletin is produced by the College of Aerospace Doctrine, Research and Education, Air University Maxwell AFB Alabama.

Requested Topic	Title of Paper	Author	School
“How do you integrate Transformational Communications System (TCS) protection into the space control construct as part of the space and C4ISR CONOPS?”	Military Space Control: An Intuitive Analysis	Adolfo J. Fernandez	AFF
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
Results of failed preemption	Implications of Failed Preemption	Joel Reese	AWC

***HQ AF Judge Advocate General***

Requested Topic	Title of Paper	Author	School
Contractors on the Battlefield: Improving Control and Accountability	Contractors on the Battlefield: Improving Control and Accountability	Tracey D. Kop	ACSC

***HQ AF Personnel***

Requested Topic	Title of Paper	Author	School
Force Development Construct	Air Force Active Duty Officer Force Development—Is the Air Force Doing It Right?	Shawn E. Obrien	ACSC
	Quick-Look: Is there a Vacuum in the Force Development Paradigm	M. Dee Taylor	ARI
Future quality of USAF Officer Accession	Involuntary Call of Disenrolled Reserve Officer Training Corps Cadets	Geoffrey S. Brown	ACSC

***HQ AF Warfighting Integration***

Requested Topic	Title of Paper	Author	School
Modeling and simulation in determining force structure	Modeling and Simulation Transformation Across the DOD	Leila R. Rogers	ACSC
Modeling and simulation initiatives in readiness	Modeling, Simulation and War gaming: Keys to the AOC Weapon System	Andreas J. Forstner	ACSC
	Modeling and Simulation Transformation Across the DOD	Leila R. Rogers	ACSC
	Modeling and Simulation Contributions to US Missile Defense Programs	Ricardo Martinez	ACSC

***INSS USAFA***

Requested Topic	Title of Paper	Author	School
Water demands are increasing, groundwater levels are dropping,	Dehydrated National Security: Water Scarcity, the Emerging Threat of the 21st Century	Randall Reed	SAASS

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
surface-water supplies are increasingly contaminated, and delivery and treatment infrastructure is aging			
Evaluate the role of political Islam in the Middle East and South Asia	How Islamic Extremist Groups Use Propaganda to Promote Terrorism	James Bell	ACSC
	The Palestinian Islamic Jihad and its Impact on the Arab-Israeli Conflict	Jeffrey K. Fallesen	ACSC
	Islamic Fundamentalism: Religious and Political Struggle	Jose Guillo-Rhodes	AWC
Assess the changing dynamics of Gulf Security	The Iraq War: A Discussion of Its Causes, National Interest, Morality and Lasting Impact on International Order	Leslie T. Smith	ACSC
	United States and Iran Foreign Relations: A Case Study	Michael E. Washington	ACSC
	The 2003 US War with Iraq: Causes, Interests, Moral Considerations and Lasting Impacts	Heather R. Knight	ACSC
Assess the Changing Dynamics of South Asian Security	Relevance: How the East African Campaign of World I Points to Strategy for Defeating USAMA BIN LADEN in Afghanistan	Jonathan L. Kelly	ACSC
	Nation Building in Afghanistan: Are PRTs the Answer?	Patrick J. Rhatigan	ACSC
	Malaysian Defense Policy wrt Southeast Asia Regional Security	Zakaria bir Tahir	AWC
Assess the continued viability of Transatlantic Security Cooperation in light of the divisiveness between the United States and several western European countries over the 2003 war in Iraq	Fighting The Global War on Terrorism: A US <i>versus</i> European Perspective	Thomas E. Painter	ACSC
	NATO in Denial: The Unwillingness or Inability of Nations to Support Alliance Ambitions	Greg A. Barnhart	ACSC
	The Revenge of Europe: NATO and the Transatlantic Relationship in the Era of the European Union	Christopher D. Cotts	AFF
Assess the role of emerging/resurgent diseases as a challenge to force protection efforts and as a generator of military operations	Air Force Scientist and Engineer Roles in Combating Weapons of Mass Destruction	Rodney L. Miller	ACSC

Requested Topic	Title of Paper	Author	School
Identify and assess adversaries' concepts related to Nuclear, Biological and Chemical (NBC) and radiological weapons use	Biopolitik: A Practical Assessment of Future Biowarfare	Timothy P. Schultz	SAASS
	Weapons of Mass Destruction Since 1945	Ardyce M. Clements	ACSC
Examine the "business of terror"	Transnational Crime and the Criminal-Terrorist Nexus: Synergies and Corporate Trends	Charles Q. Brown, Jr.	AFF
Examine the role of the US Military in Nation and State Building in a Post-Conflict setting	Nation Building in Afghanistan: Are PRTs the Answer?	Patrick J. Rhatigan	ACSC
	Role of US Military in Nation/State Building in Post Conflict Setting	Kenneth Canestrini	AWC
	Proper Role for Military Forces in Rebuilding a Country (CJCS)	Gordon Reid	AWC
	Proper Role of Military Forces in Rebuilding a Country	John Skinner	AWC
	The US Military, Nation Building, and the Prevention of Conflict	Jeffry Smith	AWC
Examine the effect of legal and normative issues affecting US freedom of action in security initiatives	Individual Rights, Search, Seizure and Inspections	David B. Belz	ACSC
	Has the War on terrorism Become a War on Our Constitutional Rights?	Michelle P. Tilford	ACSC
	Legal Status of the Commercial Air Carrier Chartered for Military Purposes	Olof Ekman	ACSC
Examine the key aspects of the Bush National Security Strategy	Is a Different US Military Force Structure Needed for the National Security Strategy of Today?	Troy P. Molendyke	ACSC
	The Bush National Security Strategy: What's All The Fuss About?	Michael S. DuPerier	AFF
Water demands are increasing, groundwater levels are dropping, surface-water supplies are increasingly contaminated, and delivery and treatment infrastructure is aging	Dehydrated National Security: Water Scarcity, the Emerging Threat of the 21st Century	Randall Reed	SAASS
Conduct a review of the Security situation in Southeast Europe	EU Defense Force: A Counterbalance to American Power?	Jean-Michel Verney	AWC
	Shaping the Counter Space Industrial Capability	William U. Gillespie	ACSC
	Ballistic Missile Threat and GCC States Missile	Saif Rashid	AWC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Defense	Alzhami	
Can we deter non-state actors from using WMD? how?	Preemptive Counterproliferation Attack: Comparing Target and Third Party Responses	William G. Eldridge	SAASS
	Weapons of Mass Destruction Since 1945	Ardyce M. Clements	ACSC
	Air Force Scientist and Engineer Roles in Combating Weapons of Mass Destruction	Rodney L. Miller	ACSC
What is the impact of the Missile Technical Control Regime (MTCR) on cooperation with allies on missile defense programs	Ballistic Missile Threat and GCC States Missile Defense	Saif Rashid Alzhami	AWC
How will arms control agreements impact future aerospace operations and force structure?	The International Development of Space and Its Impact on US National Space Policy	Dale L. Hayden	ARI
Does conventional arms control contribute to overall National Security Strategy as effectively as regional initiatives?	North East Asian Regional Power Security Issues of Korean Unification	Burke R. Hamilton	ACSC
What is minimum deterrence? Examine the fungibility of deterrence	Dissuade and Deter: A Counter to China's Limited Deterrence Aspirations	Richard P. Pagliuco	ACSC
	If Deterrence Should Fail	Joseph M. Oder	ACSC
What is the potential impact of missile defense on regional stability?	Ballistic Missile Threat and GCC States Missile Defense	Saif Rashid Alzhami	AWC
What is an effective US stance toward those countries pressing for a space arms control regime?	A US National Strategy for the Weaponization of Space	Richard J. Adams	ACSC
	The Chinese Threat to US Space Systems		ACSC
	Space Situational Awareness: How Much Should the US Share?	Tommy A. Roberts	ACSC
	A Vision for the United States Space Force		ACSC
	Of Subs, Sams, and Cossacks: Anticipating and Defeating Counterstrategies to US Space Superiority	John E. Shaw	ACSC
	Does "The Best Defense is a Strong Offense" Hold true for America in Space?	Christopher A. Coffelt	ACSC

Requested Topic	Title of Paper	Author	School
	Enhancing Homeland Security: Defense Through Space		ACSC
	Pulling the Trigger from Space	Steven E. Ankerstar	ACSC
	Executive and Legislative Decision Models for Assured US Space Access	William Pittershaus	ACSC
	Space Superiority: Does the US Really Have It?		ACSC
	“Transforming Space: Responsive Space Strategy”	Darren J. Buck	ACSC
In the past, the United States Government (USG) and Office of the Secretary of Defense (OSD) Focused on Wars Abroad and Confined to Certain Geographic Areas. Is the Current Geographically-Based Command Structure Optimal to Address Global Terrorism	Breaking the Strangle Hold: Equipping the Green Berets for the War on Terrorism	Douglas W. Craddock	ACSC
	Fighting The Global War on Terrorism: A US <i>versus</i> European Perspective	Thomas E. Painter	ACSC
	Emerging Trends in Terrorism: The Need for Effects Based Antiterrorism	Gregory J. Reese	ACSC
Perform a case study on Request for Forces (RFF) Approach used in OIF, <i>versus</i> the Historical Time-Phased Force and Deployment (TPFD) process. Was it Successful in Placing the Appropriate Counter-CBRN (C-CBRN) Capabilities in Theater?	OIF: An Analysis on Why Britain Participated	Christopher Luck	ACSC
How should the active duty AF organize to fulfill the Homeland Security (HLS) mission? What changes should be made to the Guard and Reserve forces?	Air Force Use of State Defense Forces in Homeland Security	John L. Conway III	ARI
	AEF and Homeland Security: The Air National Guard’s Competing Roles	John L. Conway III	ARI
Passive Defense and Force Protection at Joint and Allied Bases Poses Significant Operational Challenges for Commanders. Resolving	Future Force Planning for Taiwan	Gow-Ham Yeh	AWC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
Many of These Challenges Will Require a New Approach to Passive Defense/Force Protection Operations			
What are the appropriate Interfaces between DOD Intelligence and Civilian Agencies? What is the “Right” level of information sharing?	Information Sharing in a Coalition Environment: The Impact on Operational Effectiveness	Paula D. Gregory	ACSC
What doctrine, equipment, organizational structures, and tactics, techniques, and procedures are needed to effectively support ground-based special forces across the wide range of contingency operations?	Integrating Special Operations Forces With Combat Air Forces: Enabling Deep Heliborne Special Operations	James E. Breck, Jr.	SAASS
	Time-Sensitive Targeting: Improving the Critical Link between Special Forces and Airpower	Budd E. Bergloff	ACSC
How will International Radio Spectrum Allocation Issues Affect the Air Force?	The International Development of Space and Its Impact on US National Space Policy	Dale L. Hayden	ARI
What is the optimum mix of systems to provide robust and reliable surveillance, reconnaissance and gathering of intelligence?	Quick-Look: Software as an Exploitable Source of Intelligence	David Umphress	ARI
What role should the DOD and other Federal agencies take in protecting space assets, and what should be the associated policy framework?	The International Development of Space and Its Impact on US National Space Policy	Dale L. Hayden	ARI
How should DOD support campaign planning?	Information Operation to Enhance Campaign success	Thomas L. Limbaugh	ACSC
What is the strategic importance of space?	Near-Space as a Combat Effects Enabler	Edward B. “Mel” Tomme	ARI
What are the obstacles and potential solutions to developing Joint Space Doctrine?	The International Development of Space and Its Impact on US National Space Policy	Dale L. Hayden	ARI

Requested Topic	Title of Paper	Author	School
How should the Operations of Multiple Intelligence, Surveillance, and Reconnaissance (ISR) platforms be integrated and fused?	Organic Unmanned Aerial Vehicles for Special Operations ISR: A Force Multiplier	Charles B. Shea	ACSC
	The Impact of NCW on ISR Ops	Kevin M. Coyne	ACSC
	Organic or Joint? The COMAFFOR and ISR Assets	Kirk A. Kimmett	ACSC
Assess the domestic and International impact of deploying weapons in space	Quick-Look: A Concept of Operations and Technology Implications for Operationally Responsive Space	Kendall K. Brown	ARI
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
What role could force application from space play in future military operations?	Quick-Look: The Next Phase: Air and Space Power for Current CENTAF Operations	Anthony C. Cain	ARI
	Quick-Look: A Concept of Operations and Technology Implications for Operationally Responsive Space	Kendall K. Brown	ARI
What are the synergies and issues associated with US Space Command being merged with US Strategic Command from a Warfighting perspective?	The Rebirth of USSTRATCOM: Assessing the Fusion of Global Capabilities for Joint Operations	James M. Forand	ACSC
What are the synergies and issues associated with US Space Command Being Merged with US Strategic Command from a warfighting perspective?	Issues in Developing a Professional Space Cadre	James Cashin	AWC
Describe alternative Strategies for resourcing Air and Space Systems through cooperative, leasing, or financial reimbursement arrangements	Quick-Look: Low-cost Access to Space - Is it Possible?	Kendall K. Brown	ARI
What unintended consequences (or “blowback”) could result	C21R—Relating Networking Centric Warfare to Platforms and Missions	David D. Johnson	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
from the employment of Computer Network Attacks (CNA)?			
	Building the Network Centric Info structure	Russell J. Smith	ACSC
How can we Improve IO in a coalition/allied environment?	Decision Superiority and Information Operations: Expanding that UODA	Hans F. Paladro	ACSC
Examine the role of maneuver in cyberspace	Lessons for Cyberspace in the Air Corps Tactical School	Kenneth S. Crane	ACSC
What are the ramifications of hostile IO/IW threats to the US, its forces, and allies?	Process Reengineering: Exploiting Cots Software in Information Operations	Darren S. Roach	ACSC
	Decision Superiority and Information Operations: Expanding that UODA	Hans F. Paladro	ACSC
IO is conducted in a distinct battlespace. What type of organizational structure is best suited to accomplish the IO mission?	Is it Time for an Information Operations Career field	Jonathan A. Sutherland	ACSC
	Examining USAF Leadership: How Well do They Advocate Information Operations	Jeffrey H. Fischer	ACSC
Assess regional access challenges to the US military	US Ballistic Missile Defense System- International and Regional Implications		ACSC
Assess the Emerging Security Relationships in Asia (China, Russia, Japan, the Koreas, India, Pakistan, Australia, US role)	North East Asian Regional Power Security Issues of Korean Unification	Burke R. Hamilton	ACSC
	F-15 Strike Fighter: Impact on the Korean Theater	Michael R. Neeman	ACSC
	Future Engagement with North Korea	Jeannie M. Leavitt	ACSC
	The Role of Non-Governmental Organizations in Shaping North Korea's Landing	Kyle M. Riedel	ACSC
	Fourth Generation Warfare in Asia: A Cultural Perspective	Tuang Liang Lim	ACSC
	Southeast Asia's Role in China's Grand Strategy	Michael Dembroski	AWC
	China's New Leadership: Hu Jintao Poised for the Future	Ruth Curtis	AWC
	Improving US/China Relations 1 Brick at a Time (Mil Engineers)	Janice Dombi	AWC

Requested Topic	Title of Paper	Author	School
	Future of India-China Relations and Its Impact on the Region	Muhammad Hossain	AWC
	Ramifications of Closer Pakistan-China Relations	Sheikh Salfullah	AWC
	Russian Military Reform from Perestroika to Putin: Implications for US Policy	Kris D. Beasley	AFF
	China's New Relationships with its neighbors	Michael Joy	AFF
Examine the way ahead for the Middle East peace process	Jordan's Unique Role in the Middle East Peace Process	Nabil Ababneh	AWC
Assess US Policy toward Iran including goals, strategy, and way ahead	United States and Iran Foreign Relations: A Case Study	Michael E. Washington	ACSC
Conduct a case study of Operation Iraqi Freedom (OIF) and discuss lessons learned that may be applicable in future conflicts	Operation Iraqi Freedom: A political Analysis	Daniel L. Waters	ACSC
	Operation Iraqi Freedom Phase IV Preparations	Darren B. Halford	ACSC
	Quick-Look: Perspective: Using Airpower to Secure Iraq	Anthony C. Cain	ARI
	OIF Assessment: Trends and Road Ahead in SEAD	Scott Dennis	AWC
Analyze EU efforts to develop an autonomous defense capability and its long-term effects on NATO durability	EU Defense Force: A Counterbalance to American Power?	Jean-Michel Verney	AWC
NATO was entering a period of rapid change before the 2003 Iraq War exposed significant divisions within the alliance. The next few years are likely to be crucial in determining the alliance's place in Transatlantic relations	NATO in Denial: The Unwillingness or Inability of Nations to Support Alliance Ambitions	Greg A. Barnhart	ACSC
	The Revenge of Europe: NATO and the Transatlantic Relationship in the era of the European Union	Christopher D. Cotts	AFF
Assess Foreign Military and Non-Military Responses to Complement or confront Overwhelming	The Chinese Threat to US Space Systems	Richard J. Adams	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
US air and space capabilities.			
	Space Situational Awareness: How Much Should the US Share?	Tommy A. Roberts	ACSC
	Of Subs, Sams, and Cossacks: Anticipating and Defeating Counterstrategies to US Space Superiority	John E. Shaw	ACSC
	Does “The Best Defense is a Strong Offense” Hold true for America in Space?	Christopher A. Coffelt	ACSC
	GPS vs. Galileo: Balancing for Position in Space	Scott W. Beidleman	SAASS
Assess the role of the United Nations post-Iraqi freedom	Kuwait after Free Iraq	Ala Alsayegh	AWC
Recent terrorist attacks highlighted some of the downsides of globalization and affected regional security cooperation throughout the world	How Islamic Extremist Groups Use Propaganda to Promote Terrorism	James Bell	ACSC
	Fighting The Global War on Terrorism: A US <i>versus</i> European Perspective	Thomas E. Painter	ACSC
	Has the War on terrorism Become a War on Our Constitutional Rights?	Michelle P. Tilford	ACSC
Is the current US military dominance sustainable?	From Earth to the Sky: America’s Pursuit of Air Dominance	William R. Tracy	ACSC
How will transformational technologies, concepts, and ideas affect the missions and organization of the US Air Force?	Unmanned aerial Vehicles A key FACTOR IN psychological operations force transformation	William M. Hardy	ACSC
	The Transformation of Counterland Employment: Sign Posts to the Future	Richard A. Coe	ACSC
How can the military services better incorporate public involvement in environmental issue management?	Meeting the Expeditionary Challenge: Peacetime & Wartime Roles of Bioenvironmental Engineering in the Year 2020	Tasha L. Pravecek	ACSC
Leadership Development: Splintered Applications	Genesis and Evolution of the United States Air Force Academy’s Officer Development System	Paul A. Price	AFF
Examine the role of nuclear weapons within the new strategic triad: what are the	The Role of Nuclear Weapons in the New Strategic Triad	Eddie Richardson	AWC

Requested Topic	Title of Paper	Author	School
roles, missions, and tradeoffs of nuclear <i>versus</i> advanced conventional weaponry?			

### *Joint Chiefs of Staff*

Requested Topic	Title of Paper	Author	School
How can the mobilization process be streamlined for reserve forces that are depended upon for warfighting?	Involuntary Call of Disenrolled Reserve Officer Training Corps Cadets	Geoffrey S. Bacon	ACSC
	Streamling the Mobilization Process for Reserve Forces	Martin Schans	AWC
If one could start from scratch, what would be the ideal process for the DOD to deploy forces in support of crises and contingencies?	Deployment and Prioritization of Forces: A logistical War game	Kenneth S. Zepp	ACSC
	Improving the Combatant Commander's Ability to Orchestrate a Joint Deployment	David A. Haase	ACSC
	Operational Warfare Education for CAOC Personnel	Anthony C. Cain & Robyn S. Read	ARI
How can Goldwater-Nichols be improved upon?	Goldwater-Nichols: Revolutionary Change in DOD Structure or Evolution in Civil-Military Reactions	Willaim B. Johnson	ACSC
How can the US Government deter the proliferation of weapons of mass destruction by terrorist groups or other transnational actors?	Weapons of Mass Destruction Since 1945	Ardyce M. Clements	ACSC
What is the proper relationship between the Departments of Defense and Homeland Security to protect the homeland?	Relationship bet. DOD and Homeland Security to Protect Homeland	Frederick Sisk	AWC
What key technologies does the military need to develop in order to facilitate a rapid and lasting transformation of the Joint Force?	UAVs as a Key Technology for Transforming Joint Force (CJCS)	Mark Gebhard	AWC
What should be the proper	Balancing AF Active and Reserve Mix to Meet	Wesley Long	AWC

## Research and Publication Opportunities

mix of Reserve and Active duty units as we face 21st Century challenges?	21st Century Needs		
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### *US Air Forces Europe*

Requested Topic	Title of Paper	Author	School
Combat Assessment/ BDA: Keeping Up With Operations and Finding Efficient Ways to Determine the Effects of IO in Future Operations	Broken for 13 Years: Is It Time to Fix BDA	Chris E. Hogan	ACSC
	Are Changes in Phase 1 BDA Needed to Accommodate EBO?	Craig Wackford	AWC
See It, Kill It: Exploring Efficient Ways to Further Compress the Sensor-to-Shooter Kill Chain	“Sensor to Shooter”: Defining and Breaking the Suicide Bomber Kill Chain	Erik D. Pettyjohn	ACSC
The Future of NATO with the Eastward Expansion: Is Consensus Still Valid as a Way of Doing Business?	NATO in Denial: The Unwillingness or Inability of Nations to Support Alliance Ambitions	Greg A. Barnhart	ACSC
Implications of Turkey’s Islamic Government as a Model of Democracy in the Middle East	National Security Strategy: Pushing Democracy to Middle East	Matar Al-Abaidani	AWC
How to Make Humanitarian Relief Operations (HUMRO) a Real Air Force Core Competency/Mission Rather than a Pickup Game	Should HUMRO be an Air Force Competency?	Jeffrey Carrothers	AWC
Understanding the Roots of Anti-Western Islamic Perspectives	Roots of Anti-Western Islamic Perspectives	Bradley McRee, Audrey Sartain, J. Kevin Altman	AWC
	Roots of Anti-Western Islamic Perspectives: The Case of Yemen	Adnan Siddiqi	AWC
Pre-emptive Defense: deterrence <i>versus</i> Defense Theory and implications for International law and Just War Theory	Preemptive Defense: Implications of Just War Theory	Robert Algermissen	AWC

Requested Topic	Title of Paper	Author	School
	Preemptive Defense: Implications for Just War Theory	David Carrell	AWC

*US Air Forces Korea*

Requested Topic	Title of Paper	Author	School
Targeting Integration: Linking National Targeting Objectives to Tactical Targets	Dynamic Targeting: Controlling Chaos	Craig S. Leavitt	ACSC
	F-15 Strike Fighter: Impact on the Korean Theater	Michael R. Neeman	ACSC
Joint Theater Integrated Communication System for First Responders and Terrorist Incident Command	Empowering First Responders - Peer-To-Peer Technology	Michael D. Bontrager & Randall J. Richert	AFF
Application of Coercion Theory Against Rogue States	Indirect Coercion: Influencing Third Parties to Achieve US National Security Objectives	Regan W. Elder	SAASS
Interoperability Between Different Security Levels	Coalition Warfare Interoperability: The Security Challenge	Brett C. Talbott	ACSC
Managing C2 Networks in a Coalition Environment	Information Sharing in a Coalition Environment: The Impact on Operational Effectiveness	Paula D. Gregory	ACSC

*US Central Command*

Requested Topic	Title of Paper	Author	School
Operational Impact of Unmanned Aerial Vehicles	The Unmanned Aerial Vehicle: A Prediction of a New Air Force Culture	Matthew C. Smithman	ACSC
	Unmanned aerial Vehicles A key FACTOR IN psychological operations force transformation	William M. Hardy	ACSC
	Unmanned Aerial Vehicles “ A Future in Close Air Support”	Chris A. McPhillips	ACSC
	Small UAVs and Their Future With AFSOF	Tony D. Bauernfeind	ACSC
	Organic Unmanned Aerial Vehicles for Special Operations ISR: A Force Multiplier	Charles B. Shea	ACSC
	Airpower’s New Dogs of War: Hounding Out Insurgency with UAVs	Albert F. Lowas	ACSC
	Weaponizing the Predator UAV: Toward a New Theory of Weapons System Innovation	Sean M. Frisbee	SAASS
Joint and Combined Training and Readiness	Training Like We Fight: Including the Media in Joint War fighting Exercise	Edward W. Thomas	ACSC
	Large Package Week: Providing Transformational Training Through Joint	William A. Spangenthal	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Experimentation		
	Implications of Joint Training on Service Culture	James Wolcott	AWC
Targeting of Precision Guided Munitions (PGMs)	Bomber Crews, Fatigue, & PGM Targeting	Edwin H. Redman	ACSC
	PGMs: History and Lessons for the Future	Randy L. Kaufman	SAASS
The role of Tankers in future conflicts	Passing Gas Better: Getting More Efficient Empliment of Air Refueling Assets	Sushil S. Ramrakha	ACSC
	Jousting the Windmills of Efficiency: A Need for Improved Air Refueling Planning	Wayne A. McCaskill	ACSC
	Future Tanker Force Requirements and Structure	Juan Narvid	AWC

### *US European Command*

Requested Topic	Title of Paper	Author	School
Network Warfare Organization and Employment	Building the Network Centric Info structure	Russell J. Smith	ACSC
Methodology for Effects-Based IO Planning and Assessment for the Asymmetrical GWOT	Near-Space as a Combat Effects Enabler	Edward B. "Mel" Tomme	ARI
Space Warfare: Offensive and Defensive Considerations	The Chinese Threat to US Space Systems	Richard J. Adams	ACSC
	Space Situational Awareness: How Much Should the US Share?	Tommy A. Roberts	ACSC
	Quick-Look: A Concept of Operations and Technology Implications for Operationally Responsive Space	Kendall K. Brown	ARI

### *US Joint Forces Command*

Requested Topic	Title of Paper	Author	School
Deployment of Air Force Units as required by Secretary of Defense/Joint Staff Deployment Orders	Deployment and Prioritization of Forces: A Logistical War game	Kenneth S. Zepp	ACSC
	Improving the Combatant Commander's Ability to Orchestrate a Joint Deployment	David A. Haase	ACSC
How does a Regional Combatant Commander implement Directive Authority for Logistics?	Improving the Combatant Commander's Ability to Orchestrate a Joint Deployment	David A. Haase	ACSC

Requested Topic	Title of Paper	Author	School
Information-Age Leadership	Effects Based Leadership- A Framework for Promoting Organizational Change in a Low-Performing Squadron	Michael M. Spencer	ACSC
	Examining USAF Leadership: How Well do They Advocate Information Operations	Jeffrey H. Fischer	ACSC
Visioning Joint Power Projection at Joint Task Force Levels and Echelons Above	Quick-Look: Airpower and the Combined Joint Task Force	Thomas R. Searle	ARI
Computer Modeling and Simulations (M&S) Development to support Department of Defense (DOD) Transformation	Modeling and Simulation Transformation Across the DOD	Leila R. Rogers	ACSC
Homeland Defense	Air Force Use of State Defense Forces in Homeland Security	John L. Conway III	ARI
	Activating Medical Resources for Homeland Emergency Response	Wilfrid Hill	AWC
Strategic engagement of multinational partners on Coalition Warfare and Transformation.	Coalition Warfare Interoperability: The Security Challenge	Brett C. Talbott	ACSC
	Improving Bulgarian AF Training for Coalition Operations	Tsanko Stoykov	AWC
21st Century Political Warfare (J9)	Does Political Correctness Undermine Ability to Manage Violence?	Debra Bean	AWC
Principles of War for the Information Age (J9)	The Principles of War at Takur Ghar	Daniel D. Czupka	ACSC

***US Northern Command***

Requested Topic	Title of Paper	Author	School
National Biodefense Surveillance	Domestic Bioterrorism: A Gap in Health Care Integration	Gregory B. Dewolf	ACSC
Unmanned Vehicles for Homeland Defense and Civil Support—Space, Air, Maritime, and Land	A Case for Developing Small Expendable Unmanned Aerial Vehicles (UAV) to Augment US Navy Maritime Patrol and Reconnaissance Missions	James L. Taylor	ACSC
	Small UAVs and Their Future With AFSOF	Tony D. Bauernfeind	ACSC
	Doctrine of Unmanned Aerial Vehicles	John S. Anttonen	ACSC
	UAVs: Applications in the Maritime Environment	Donald Klein	AWC
Relationship between Homeland Defense and Homeland Security	The Relationship between Homeland Defense and Homeland Security: U.S. Northern Command’s Rubik’s Cube	William C. DeMaso	AFF

## Research and Publication Opportunities

	Relationship bet. DOD and Homeland Security to Protect Homeland	Frederick Sisk	AWC

### *US Southern Command*

Requested Topic	Title of Paper	Author	School
Anticipating Future Threats	Future Engagement with North Korea	Jeannie M. Leavitt	ACSC
	A United Europe; Historical Dream, Emerging Future	Jeffrey D. Flewelling	ACSC
	Hidden Dragon or Not? An Assessment of China as a Future Threat	Susan B. Schlacter	ACSC
Managing Information Overload	Decision Superiority and Information Operations: Expanding that UODA	Hans F. Paladro	ACSC
Nation Building in Latin America—Utility of Medical, Infrastructure, and Interagency Support to Developing Democracies	Nation Building: Is Stryker Brigade Optimized for the Mission?	Henry Larson	AWC
	Nation Building in Latin America (Nicaragua)	Thomas Burke	AWC
	Nation Building in the Andean Ridge Area of Latin America	Dean Wolford	AWC
Use of Non-Traditional Sensors to Support ISR Operations and Combat Execution	Aggressive ISR in the War on Terrorism: Breaking The Cold War Paradigm	William B. Danskine	AFF
	Quick-Look: Red Team Look at Tethered Sensors	Robyn S. Read	ARI

### *US Special Operations Command*

Requested Topic	Title of Paper	Author	School
Close Air Support/Terminal Guidance Operations (CAS/TGO) Best Practices	Fixed Wing Close Air Support in Urban Terrain	Todd Kemper	AWC
	CAS/Terminal Guidance Operations Best Practices	John Colombo	AWC
Joint SOF Basing	Cohesion in SOF Built Through Assessment, Selection, and Training	Neil S. Hersey	ACSC
	Breaking the Army SOF Paradigm in the 4th Generation Warfare Environment	John M. Weaver	ACSC

Keeping the “Special” in SOF	Cohesion in SOF Built Through Assessment, Selection, and Training	Neil S. Hersey	ACSC
The Future of CSAR Forces and SOF	Expeditionary CSAR	John M. Trumpfheller	ACSC
	Black Hats and White Hats: The Effect of Organizational Culture and Institutional Identity on the 23d AF	Ioannis Koskinas	SAASS
The Impact of Unmanned Aerial Vehicles on Special Operations	Unmanned aerial Vehicles A Key Factor in Psychological Operations Force Transformation	Willaim M. Hardy	ACSC
	Doctrine of Unmanned Aerial Vehicles	John S. Anttonen	ACSC
	Organic Unmanned Aerial Vehicles for Special Operations ISR: A Force Multiplier	Charles B. Shea	ACSC

***US Strategic Command***

Requested Topic	Title of Paper	Author	School
Technologies for future strategic missions	Strategic Airlift in Future Military Operations: Assuring Continued Access	Jeffrey G. Pierce	ACSC
What should the relationship of USSTRATCOM (DOD lead for space) be with the NRO (IC community lead for space)?	The Rebirth of USSTRATCOM: Assessing the Fusion of Global Capabilities for Joint Operations	James M. Forand	ACSC
What is the USAF plan for providing IO and space professionals to the new STRATCOM?	The Rebirth of USSTRATCOM: Assessing the Fusion of Global Capabilities for Joint Operations	James M. Forand	ACSC
	Is it Time for an Information Operations Career field	Jonathan A. Sutherland	ACSC
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
What relationship should there be between STRATCOM and the AF C2ISR Center, AF Information Warfare Center and the Air Force Communications Agency?	The Rebirth of USSTRATCOM: Assessing the Fusion of Global Capabilities for Joint Operations	James M. Forand	ACSC
Is the Air Force the appropriate executive agent for space?	Impact of an Independent Space Force for the Navy	Frederick C. Goldhammer	ACSC
	Separate Space Force: Launching onto the Decision Making Agenda	Eric D. Brown	ACSC
	Independent Space Force	Stephen T. Hamilton	ACSC
	Executive and Legislative Decision Models for	William	ACSC

## Research and Publication Opportunities

Requested Topic	Title of Paper	Author	School
	Assured US Space Access	Rittershaus	
	Legal Issues and A Separate US Space Force	John E. Ard	ACSC
	No Air in Space: Does the Uniqueness of Space Suggest a Better Executive Agent is Required?	Kenneth S. Montgomery	ACSC
	Issues in Developing a Professional Space Cadre	James Cashin	AWC
Consolidated Command and Control oversight requirements/responsibilities for Global Strike, Global Missile Defense, Info Ops, ISR	Leaks in the National Information Infrastructure Dam: Who Should Protect It	Curtis O. Pointkowsky	AFF
	Quick-Look: Airspace Management In Global CONOPS	Alexander M. Wathen	ARI
	Satellite Communications and the Future of Warfare: An Alternate View	Rory D. Welch	SAASS
The USAF provides the vast majority of capabilities needed by STRATCOM to carry out its UCP missions	The Rebirth of USSTRATCOM: Assessing the Fusion of Global Capabilities for Joint Operations	James M. Forand	ACSC

## Other Papers of Note

### Air Force Fellows

Title of Paper	Author
Military Chaplains as Peace Builders: Embracing Indigenous Religions in Stability Operations	William Sean Lee, Christopher J. Burke, and Crayne
The Revenge of Europe: NATO and the Transatlantic Relationship in the ERA of the European Union	Christopher D. Cotts
Understanding Islam and its Impact on Latin America	Curtis C. Connell
Flying Reactors: The Political Feasibility of Nuclear Power in Space	James R. Downey, Anthony M. Forestier, and David E. Miller
Russian Military Reform from Perestroika to Putin: Implications for US Policy	Kris D. Beasley
Understanding and Assessing Risk of Intrastate Conflict in Human Development Theory and Practice	Gary O. Refrow
Fighting in the Gray Zone: A Strategy to Close the Preemption Gap	Joanne M. Fish, Samuel J. McGraw, and Christopher J. Reddish

### Air Command and Staff College

Title of Paper	Author
Deep Battle Exploitation in Rapid Decisive Operations: Airborne Application Beyond SBA and Air-Land Battle	David F. Brummitt
A Study of the AF Core Value Service Before Self	Robert D. Berger
Approaching Inevitability: UCAV-N2CUN Integration	Byron W. Jenkins
Rejection of ICC Jurisdiction: Impact on Peace Operations	Max R. Massey
Vehicle Support for the AEF	Sean C. Cornforth
He Fought With What He Had: Melvin McKenzie and the Early Days of Amores Pacific With Japan	John D. Plating
The Selective Service Act of 1917- Relevance Then and Now	Randall L Thomsen
Air Force Mentoring: Institutionalizing a Program	Steven J. Dimatteo
Colonel Spiro "Steve" N. Pisanos, "The Flying Greek"	Peter J. Guerra
A Common Hero, One of Thousands: Major Ralph Edward Johnson, USAF Retired	Jeffrey M. Johnson
Bosnia	Thomas K. Dale
The Beginnings of Transformation: Lessons Learned from Laser Guided Bombs in Vietnam	Roger L. Claypoole
Fifth Air Force: A Case study in the Principles of War Aug 1942 --Apr 1944	George L. James
Air lifters at the Yoke of the Falconer	William C. Murphey
Military Unrest of the Atlantic Fleet: The Invergordon Mutiny	Sylvia C. Taylor
The Growth of the SEAD Mission on Vietnam	Robert W. Kraus
Use it or Lose it: Naval Aviation and the Reserve Air Wing	Mark E. Foster
War Powers Resolution	Norine P. Fitzsimmons
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## Research and Publication Opportunities

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Reducing SOF Forward Presence With Reach back Capabilities	Danny L. Noles
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Operational Assessment: Still an Empty Promise?	Shannon E. Kruse
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What Should be the US Foreign Policy toward Vietnam?	Audy Snodgrass
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Developing an Effective Framework for Mentoring	Mary Hittmeier
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Joint Information Operations for the Future	Bob Shereda
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### School of Advanced Air & Space Studies (SAASS)

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