

# ARMYAVIATION

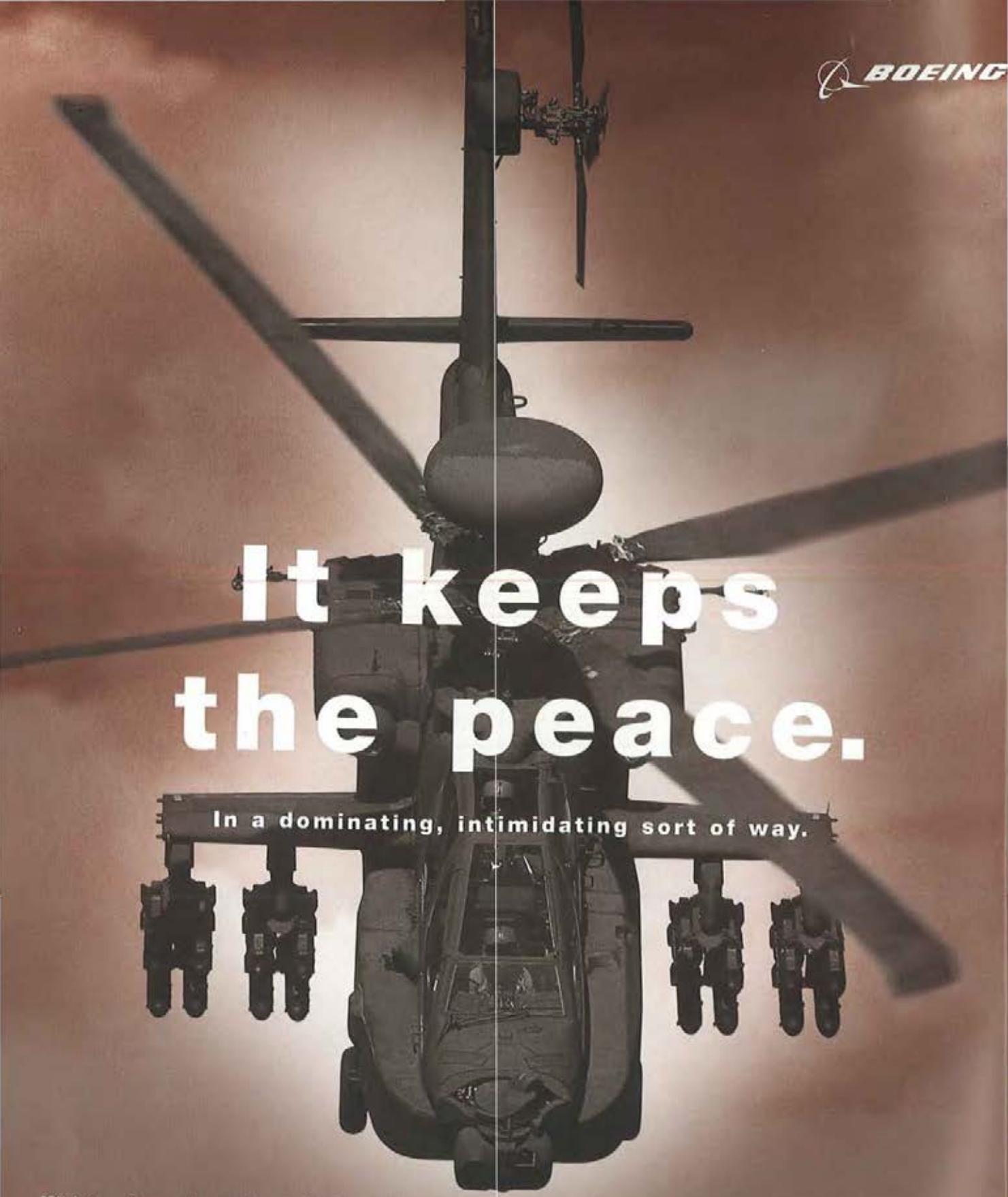
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## on the cover

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A Bell OH-58D Kiowa Warrior team from the 1st Squadron, 7th Cavalry, 1st Cavalry Division, Fort Hood, Texas patrols the Bosnian countryside in support of the Army's peace-keeping mission. The long-range day/night targeting capability coupled with its weapon versatility make the Kiowa Warrior perfectly suited for the armed reconnaissance role in peace and war. *Caption provided by advertiser.*



The 14th Annual AAAA ASE & Avionics Symposium will be held 30 November - 3 December 1999 at the Hilton Mesa Pavilion, Mesa, AZ in conjunction with the Joint Technical Coordinating Group for Aircraft Survivability (JTCG/AS) meeting. Contact the AAAA National Office for more details, 203-226-8184. Exhibitors contact Bob Lachowski, ext 131. See page 71.

The Defense Technical Information Center (DTIC) has enhanced the capabilities of its Public STINET, an Internet-based service that provides free public access to citations and unclassified documents added to DTIC's technical reports collection since 1985. The system offers extensive search capabilities in a wide range of technical and scientific fields, as well as links to many other valuable resources and databases. The site is accessible at [www.dtic.mil/stinet/](http://www.dtic.mil/stinet/).

The Boeing Company has integrated the AN/ALQ-211 Suite of Integrated Radio-Frequency Countermeasures (SIRFC) into a prototype AH-64D Apache Longbow and will begin flight testing and evaluations of the equipment this summer in Mesa, Ariz. SIRFC — which uses radar warning, active radar jamming and passive radar frequency target detection and classification to enable aircraft crews to avoid potentially dangerous situations — is intended to enhance the survivability and effectiveness of the Army's AH-64D, MH-47 and MH-60 helicopters. The system is scheduled to be qualified for use early next year.

The 1999 Department of Defense Maintenance Symposium is scheduled for Nov. 15 through 18 at the Regal Riverfront Hotel in St. Louis, Mo. The event's organizers say its theme — "Transforming Maintenance With Technology" — reflects the critical role technology will play in reshaping DOD maintenance for agile logistics support. The point of contact, Mr. H.J. "Bud" Applegate, can be reached at (703) 693-7037 or via e-mail to [applegh@acq.osd.mil](mailto:applegh@acq.osd.mil), and a symposium brochure and registration information are available online at [www.ndia.org/interview/register.ndia?~Brochure~074](http://www.ndia.org/interview/register.ndia?~Brochure~074).

The Electro-Optical Systems Group of New Jersey-based DRS Technologies Inc. has been awarded a five-year, \$1.1 million contract by the U.S. Army Aviation and Missile Command for the maintenance and supply of Captive Boresight Harmonization Kits (CBHKs). The kits are used to help align the navigation, targeting and weapon systems with the pilot's sighting gear of Apache and Apache Longbow helicopters. Contract options, if exercised over the next five years, could increase the total value of the contract to \$165 million.

The Army's second AH-64D Apache Longbow-equipped aviation battalion — the 2nd Battalion, 101st Aviation Regiment — moved a step closer to combat-ready certification when the unit's final elements arrived at Fort Hood, Texas, in mid-July. The

**Briefings** continued on page 77

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## THE 1999 INDUSTRY PARTNERS DIRECTORY

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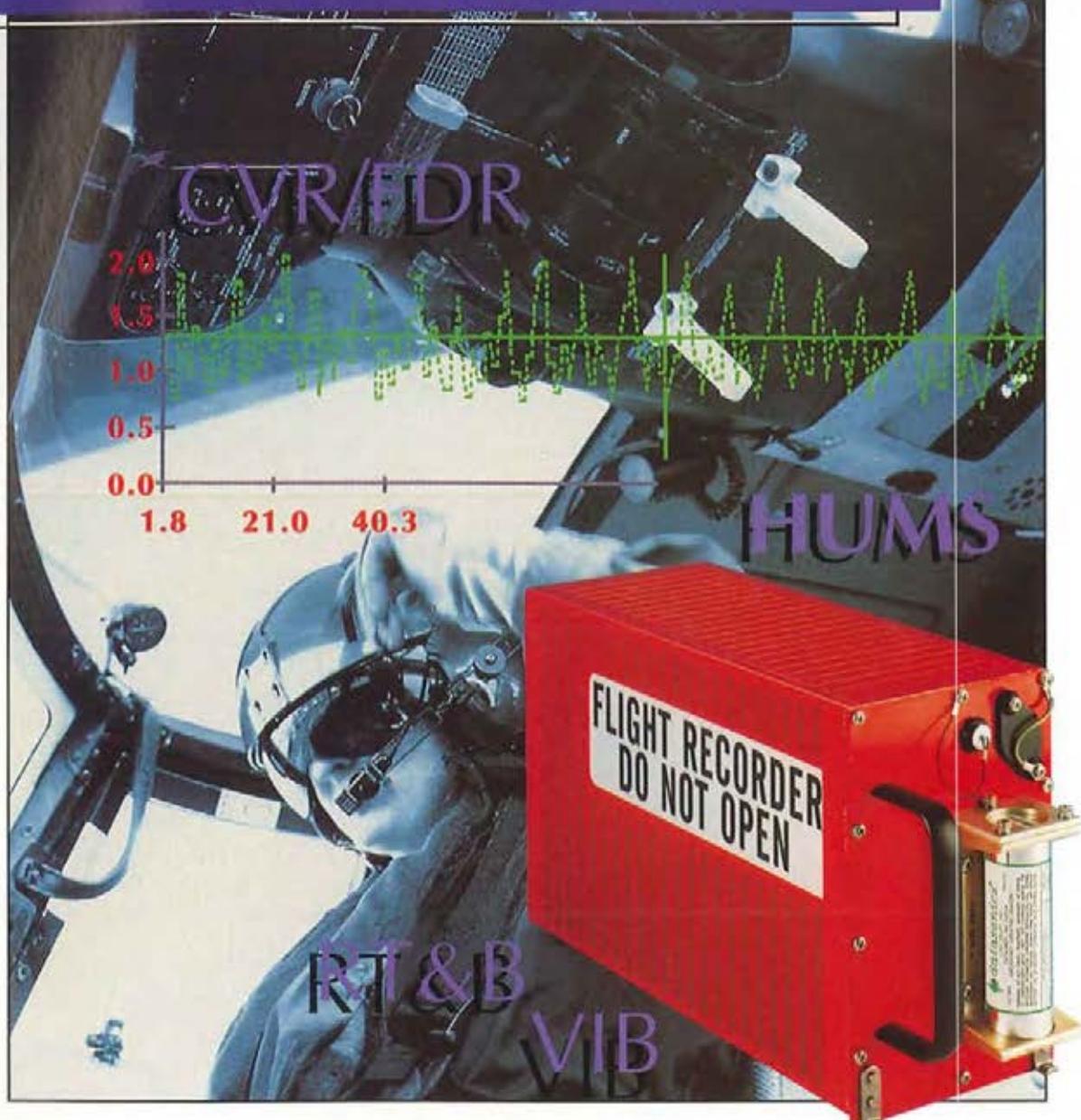
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# Development of Night Vision Devices

By Maj. Gen. Anthony Jones

**A**s we approach the millennium it is becoming more and more difficult to keep up with rapid improvements in technology. Such is the case with night-vision technologies. Aviation night-vision devices must seize the opportunities that technology now presents to maintain the warfighting edge for our aircrews.

Although night-vision devices were first used routinely in ground applications, Army aviation developed the use of AN/PVS-5 night-vision goggles (NVG) in the 1970s. These NVGs, commonly referred to as "Generation II" goggles, were not designed for aviation and were therefore exceedingly difficult to use and train with. They lacked resolution, failed to provide adequate adjustments for use with SPH-4 flight helmets and did not accommodate peripheral vision. Moreover, the AN/PVS-5 goggles were heavy and resulted in excessive head and neck strain during prolonged flights. Perhaps some of you still have vivid memories of nights flying with "full-face" goggles. Early on, however, the aviation community realized the need for aviation night-vision goggles.

Development of such goggles began in the early 1980s, and the result was the procurement of the AN/AVS-6 NVG in fiscal year 1985. Commonly referred to as the Aviation Night Vision System (ANVIS), this goggle corrected many of the disparities of the AN/PVS-5. For instance, ANVIS allowed the aviator to view the flight instruments, an element essential to controlling the aircraft's altitude and attitude in low-illumination conditions. ANVIS also had improved resolution, improving aviators' vision from 20/50 in high illumination levels to 20/40. More impor-

tantly, ANVIS provided aviators a significant improvement in resolution under low-illumination conditions. Other improvements included a battery pack that held a spare lithium battery, the ability to quickly flip-up the goggles for unaided vision, and significant improvements to the vertical, fore and aft eye relief, and interpupillary adjustments. By FY 92, the Army had procured 16,753 sets of ANVIS.

Improvements to the ANVIS occurred incrementally. A new battery pack was developed and fielded. It employed AA batteries as opposed to lithium batteries, which were more costly and less reliable. By FY 93 improvements in manufacturing processes, coupled with lessons learned, resulted in the manufacture, procurement and fielding of an improved version of ANVIS. During this contract period 1,000 ANVIS were procured and placed into service. Improvements to the ANVIS included a dual pivot and adjustment shelf (PAS) that contained individual interpupillary adjustments for each eye, which allowed users to adjust each monocular housing individually. This feature allowed users to acquire the required field-of view with greater ease regardless of head size/shape. Additionally, the diameter of the eye piece lens was increased from 15mm to 25mm and the fore-and-aft adjustment travel was increased.

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to parts usage, and directs maintenance actions...this offers

increased availability, improved



This open architecture system was also selected for the U.S. Navy,

Marine Corps, and the Coast Guard H-60 family and the CH-53E model under the Integrated Mechanical Diagnostics-Commercial Operations and Support Savings Initiative (IMD-COSSI) program, as well as on the Agusta A109K2 and the Eurocopter AS350 and A355 Series.

\*Sensor systems provided in partnership with Vibro Meter, Inc.

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These improvements increased the desired eye relief from 18mm to 25mm, thus allowing the user to gain the forty-degree field of view with the monocular housing farther from the eye, and provided the additional clearance necessary to use aviator protective masks in an NBC environment. Moreover, the visual acuity of the OMNIBUS III tubes was improved to 20/33 under high-illumination levels and 20/105 under low-illumination levels.

Due to the significant improvements in tube performance, approximately 500 ANVIS systems were procured under OMNIBUS IV in FY 98. Although the goggles feature the same adjustment improvements as OMNI III systems, there were significant improvements in tube performance. For instance, high-illumination visual acuity improved to 20/28, while low-illumination visual acuity improved to 20/85. However, there was a lack of funding for newer systems due to the huge quantities of spare OMNI I & II tubes in the supply system.

The future looks brighter for continued procurement of improved night-vision systems. I recently had the opportunity to fly with the latest technologically advanced ANVIS. Referred to as filmless NVGs because of the removal of the ion barrier, the performance of these NVGs is significant and far-reaching. Improvements in both high and low illumination visual acuity has been improved to a staggering 20/28 and 20/72, respectively. More importantly, the halo surrounding light sources has been reduced by more than 80 percent. There have also been improvements to resolution and the signal-to-noise ratio.

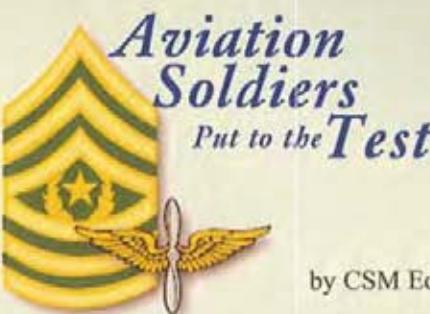
We expect to see at least 800 systems procured under the OMNIBUS V contract in FY 00 and additional systems procured through FY 02. Development of the Advanced Night Vision Goggle (ANVG) is continuing as part of the operational requirements for Air Warrior. This newest piece of night-vision technology will incorporate a 100 degree by 40 degree field of view while maintaining all the other performance enhancements of ANVIS. The ANVG is scheduled for initial procurement in FY 03 with fielding beginning in FY 04.

Our goal is to provide the best equipment that technology can provide — our soldiers deserve nothing less. We must seize the opportunity to improve our warfighting capabilities by upgrading our current NVG with the improved versions that are available today and in the future.

ABOVE THE BEST!



Maj. Gen. Anthony Jones is Aviation Branch Chief and CG, U.S. Army Aviation Center (USAACVNC) and Fort Rucker, Ala., and Commandant, U.S. Army Aviation Logistics School (USAALS), Fort Eustis, Va.



by CSM Edward Iannone

Army aviation's home here at Fort Rucker is where it all begins. Flight students are transformed into pilots, but all pilots must have razor-sharp crews standing behind them.

Dedication and determination are often named as key factors in climbing the proverbial ladder of success. What may be taken for granted are the long nights and sweaty days put in by outstanding soldiers such as Cpl. Erick L. Ingram, crew chief for the EH-60s of Company C, 2nd Battalion, 1st Aviation Brigade, in Germany.

Ingram has shown unwavering devotion not just to the aviation field, but also to the United States Army. His training as a superior maintainer and a maintenance manager earned him the extra responsibilities of being a team leader at the rank of private first class.

Helping his platoon to maintain operational readiness at a rate of 85 percent and flying over 600 accident-free hours is never an easy task. It takes a spirited leader and an exceptional sense of teamwork to accomplish such an intense mission.

Ingram has proven his great worth to the military as a senior crew chief in the Quickfix Platoon, maintaining three EH-60s in a field environment and training those around him on countless mission-related tasks. As if maintaining three aircraft weren't enough, he simultaneously oriented 24 military intelligence personnel to aviation tasks, and did it to standard.

Along with his duties as a crew chief, Ingram had the initiative to take on additional assignments as company armorer and field sanitation NCO. He is also a certified combat lifesaver and has prepared and presented 35 Sergeant's Time classes enabling his platoon to receive 100 percent first-time "gos" in CTT for four consecutive years.

His seemingly endless energy was a key element in preparation for his platoon's deployment. Being able to think on his feet, Ingram came up with the most efficient method of leading the aircraft and was able to complete his mission well ahead of the allotted time.

Ordinary soldiers can make the Army run smoothly, but exceptional soldiers such as Ingram are those to whom ordinary soldiers can look for an example of outstanding leadership and great strength of character.

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# The Trouble with PVS *Isn't PVS!*

**P**rime Vendor Support (PVS) is scheduled to move from plan to reality the first of October. With its inception, Army aviation will gain more than just a new method of aircraft technical supply support. PVS also heralds the beginning of a completely different logistical philosophy, with maybe more significant ramifications than the Army is prepared to meet.

By CWO 4 Ronald W. Durant

PVS is considered to be the best commercial practice in which to reduce the Operating and Support (O&S) cost of the AH-64 Apache helicopter. Since the AH-64 is the Army's highest cost driver (a whopping \$275.1 million per year), I don't think that anyone can argue against the desire and intent to reduce O&S cost. However, there is much to be debated with regard to the methods that will achieve the desired objectives. More importantly, the obligations to the Army, and not just the contractor, must be fully understood in assessing the anticipated effectiveness of any adopted program. Those who think the Army can merely sign a contract and all will be well are living with a strong misconception of our current logistical systems, standards and policies.

**A**t first glance PVS appears to be well suited to the task of increasing readiness and logistical efficiency, with the simultaneous objective of reducing O&S costs. PVS is considered to be a "wholesale" support system and, unfortunately, there is no precedent for the magnitude and complexity of the Apache PVS plan to which we can refer for a more detailed analysis. In any event, it is not the intent of this article to dissect the PVS plan to look for possible system pitfalls. We won't debate the details of PVS; we will just assume and accept that PVS is capable of delivering all benefits as advertised. What needs to be considered, then, is the environment and conditions to which PVS will be subjected, and how effectively it can adapt to those circumstances. This is where we see a disparity

between what is being asked of PVS and what it can deliver.

Simply put, PVS is being asked to elevate efficiency within the Apache supply support system by applying best commercial practices. But the question remains, "What is the Army going to do to meet what it is asking of PVS?"

**I**f a system is adopted based on its efficiency results, we can't summarily chop the system up and still expect the same results. The main advantages of PVS lie in its distribution and asset-management abilities. But to derive the full benefits of PVS, the system must be applied intact with minimum tailoring to the specific operating environment assigned. Given that the system can not remain intact, the administrator (the Army) must ensure that a secondary process is provided to compensate for, and minimize, any degradation of performance. This means identifying a back-up system capable of ensuring that system objectives can be met within an acceptable level of degradation of efficiency or performance. It is this secondary support requirement that builds a dilemma for PVS because the Army has no plan to raise its own distribution standards to backup PVS. Likewise, the Army is not allowing PVS to incorporate total-asset management. The reality is that the Army has effectively tied the hands of the very system it hired to solve its O&S cost problems.

The PVS contractor is bound to parts delivery within 24 hours within the continental United States (CONUS) and 48 hours outside CONUS. This is a realistic requirement, which should be fully achiev-

able in peacetime environments. However, once deployed into a hostile theater, the Army must still bear the responsibility of battlefield distribution of all repair parts. But as all recent deployments have proven, the Army doesn't have the dedicated system or resources to meet aviation distribution demands.

Someone outside of Army aviation might ask, "Why are aviation needs greater than the majority of other weapon systems?" The answer is found in current aviation maintenance practices and procedures. Scheduled maintenance requirements and tolerances are understandably more stringent in aviation units than in vehicular units, due to the inability to allow even the slimmest possibility of material failure. Material or system failures in aviation units can have catastrophic consequences. This means that aircraft have significantly more required maintenance actions and, consequently, are placed in a Not Mission Capable (NMC) status more often than vehicles.

**T**he bottom line is that aircraft are more sensitive to support processes than are other vehicles and equipment. Accordingly, the aviation commander's operational capability suffers when high Not Mission Capable Supply (NMCS) rates whittle away aircraft combat availability. Managing the delivery of parts to combat aviation units on the move has always been a precarious situation. This is what PVS is supposed to eliminate.

Primarily due to issues not allowing contractors on the battlefield, PVS can not effectively deliver when it is needed most. The Army currently has no

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plans for advanced distribution systems capable of meeting the 48-hour OCONUS delivery requirement it levied at the contractor. There are planned enhancements for requisitioning and asset visibility [the Global Combat Support System — Army (GCSS-A) and the Movement Tracking System (MTS), respectively] but these still do not fill the bill for aviation. Asset visibility is not distribution; likewise, expeditious requisitioning is not distribution. The key is rapid and reliable distribution, and this is where PVS fails in a combat theater. PVS can only guarantee delivery to the Port of Embarkation (POE). What happens after that is entirely subject to the responsiveness of the Army supply system. The Army has not addressed the issue of its own distribution system and, consequently, we are not prepared to meet the PVS standard.

## *PVS also promises to pay dividends by reducing spares inventory through more efficient asset management.*

PVS also promises to pay dividends by reducing spares inventory through more efficient asset management. If viewed by the private sector, that would be assumed to be all repair parts and spares from the manufacturer to the lowest level of user. This is not the case with PVS. The Army is only allowing the contractor to control the wholesale-level management. Authorized Stockage Levels (ASL) in the Supply Support Activity (SSA) will be visible to, but not managed by, the PVS contractor. Unit Prescribed Load List (PLL) will not be visible to, or managed by, PVS. Likewise, war reserves will also be hands-off to the contractor. This will create unbalanced fluctuations in the supply chain that will render the system ineffective.

It doesn't take a lot of analysis to deduce that if you're not in control of asset management at the using level, and if you can't buffer the fluctuations caused by the user with reserve-stock assets, then you really can't operate very effectively. It should be noted that at the user level Aviation Unit Maintenance (AVUM) is where the least experienced supply and maintenance managers are employed.

Mistakes are inevitable as they move through the learning curve. Their mistakes will cause fluctuations.

For example, let's say that unit X is in possession of three control servos. One is demand supported but the other two are excess. The unit has not turned them in because it anticipates needing them sometime within the next year or so. Unit Y is at zero balance for the same servo and has just grounded an aircraft for said servo during a routine inspection. Unit Y removes and then turns the servo into PVS, where it is determined not to be repairable within 30 days. The SSA is at zero balance with one due out (open requisition).

The PVS contractor does a quick check and sees that it does not have immediate access to a servo in PVS stocks. Due to its contractual obliga-

tion, PVS contacts the servo manufacturer and procures, by emergency purchase, one servo to fill unit Y's requisition. It is later revealed that there were five servos on hand in the Army's depot-reserve stock; however, only two of the five would have been usable on an aircraft due to a flight safety modification not being applied. In contrast, all PVS stocks were immediately modified. How many iterations of that scenario would have to be carried out before the PVS contractor starts incurring excess overhead in inventory and an increased operating cost due to reactionary and unnecessary procurement and delivery?

In an effort to build and retain experience for Army maintainers, the Army has mandated to the PVS contractor that intermediate component repair will be retained by the local Aviation Intermediate Maintenance (AVIM) company. This is a wise move for the Army but another road-block for PVS. PVS is basically a two-level maintenance system. Parts are supposed to go directly from the user to the depot (PVS) for expeditious disposition or repair. By throw-

ing a perpetually inexperienced AVIM into the path of PVS, the contractor could at times be "painted into a corner" as demand for parts exceeds the AVIM's ability to quickly repair them. Once again the contractor would have to resort to a less effective, reactionary means to fulfill its obligations.

PVS is embraced by the aviation operators and wholesale comptrollers, but not necessarily by the aviation logisticians. It is evident that there can be much benefit in a PVS-type system for the aviation commanders in a garrison environment (e.g., increased aircraft availability/readiness through better parts availability). It will provide very little benefit for the deployed aviation unit. Will it actually lower O&S cost or optimize support systems for the aviation logistician? That is something that remains to be demonstrated.

Unfortunately, PVS will get very little help from the folks employing it. The ironic aspect of PVS is that if the Army was prepared to meet the standard it is expecting from PVS, and is needed to make it a success, the Army wouldn't need PVS. The trouble with PVS isn't PVS. If PVS fails to deliver the reduced O&S cost objectives or optimize the support system as advertised, it will be because the Army resourced it in the same manner that necessitated its employment in the first place. You can't shoehorn the best commercial practices into a defunct Army system and expect it to perform accordingly. The Army is obligated to meet the standard it is levying at the contractor. Moreover, a bigger danger with PVS is that once implemented it might become, at some near-term point, irreversible (as the Army support structure atrophies).

In trying to find outside solutions to help Army aviation achieve a cost-acceptable efficiency, I'm reminded of what a very wise and righteous man once said when asked to help out in a similar manner: "Physician, heal thyself!"

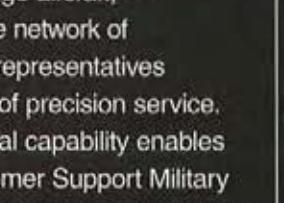


CWO 4 Ronald W. Durant is project officer for Aviation Logistics Planning Group, USAALS, Fort Eustis, Va.

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# Who Are the Aircraft Armament Technicians and What Can They Do for Me?

By CWO 3 Frank Howard (Ret.)

**A**rmy aviation armament has advanced over the past four decades from "let's-try-this" armament system technology to state of the art weapon-platform technology.

Several experiments were conducted in the early 1950s to put weapon systems on existing helicopters, but these experiments met with little or no success. The helicopter as a weapon platform was considered unreliable. In 1956, Brig. Gen. Carl I. Hutton directed Col. Jay D. Vanderpool to build and test weapon systems to be used on helicopters. Colonel Vanderpool's task force was commonly known as "Vanderpool's Fools." Through many trials and tribulations since those first primitive attempts, weapon systems have been transformed into today's advanced attack helicopter.

As armament systems began playing a greater role and as armament systems were modified with advancing technology, the operational readiness rates began to suffer due to a lack of armament expertise. It became extremely apparent



that a training program had to be implemented for the maintenance manager to advise the command and direct the flow of armament maintenance. Since warrant officers were



instrumental in the initial development of Army aviation armament, they were considered the perfect choice for these demanding maintenance management positions.

In 1981 a new warrant officer training program emerged from the U.S. Army Training and Doctrine Command (TRADOC) — the Aircraft Armament Maintenance Technician Course (AAMTC). The program continues to operate and train warrant officers. The training is available to aviation warrant officers, both pilots and maintenance technicians. The course is divided into two phases of training: The initial phase is a common-core training environment that touches lightly on supply, standard operating procedures, forward area refueling point (FARP) operations and laser theory, and concentrates heavily on aircraft electronics. After successful completion of the common core, students branch into an aircraft-specific phase. Currently, the course offers

*Armament Technicians  
cont'd. on pg. 83*

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The Army Aviation Industry Partners Directory is a section of the BLUEBOOK, Army Aviation's worldwide, year-round reference of individuals and organizations engaged in the overall field of U.S. Army Aviation. The following organizations have been listed on request and are listed by the following categories: 1) Manufacturing; 2) Maintenance/Repair/Overhaul; and 3) Consultants/Special Services. Any firm that wishes to be included in next year's directory should contact Bob Lachowski at Army Aviation Publications, Inc., 49 Richmondville Avenue, Westport, CT 06880; Telephone: (203) 226-8184, ext. 131; FAX: (203) 222-9863

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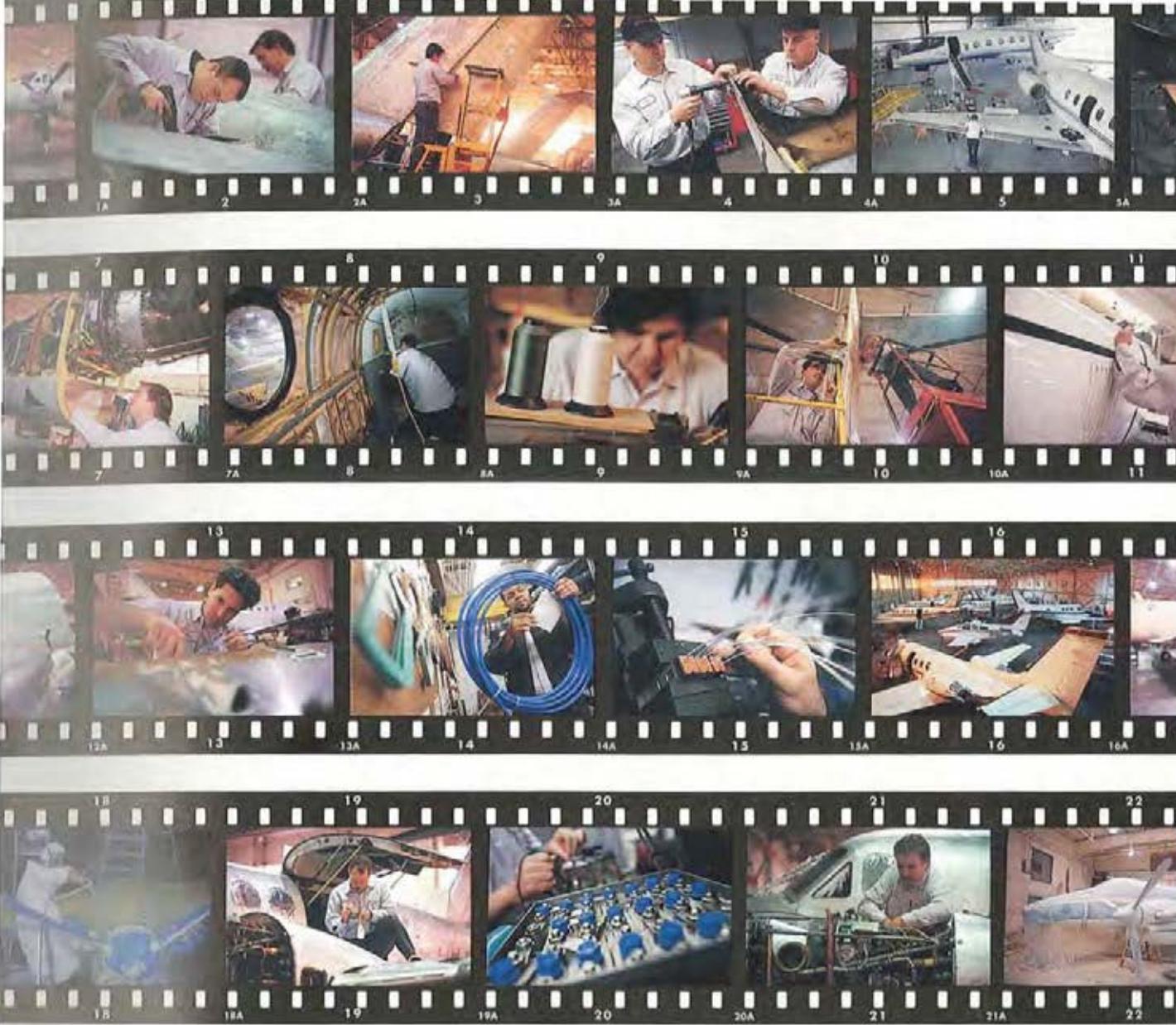
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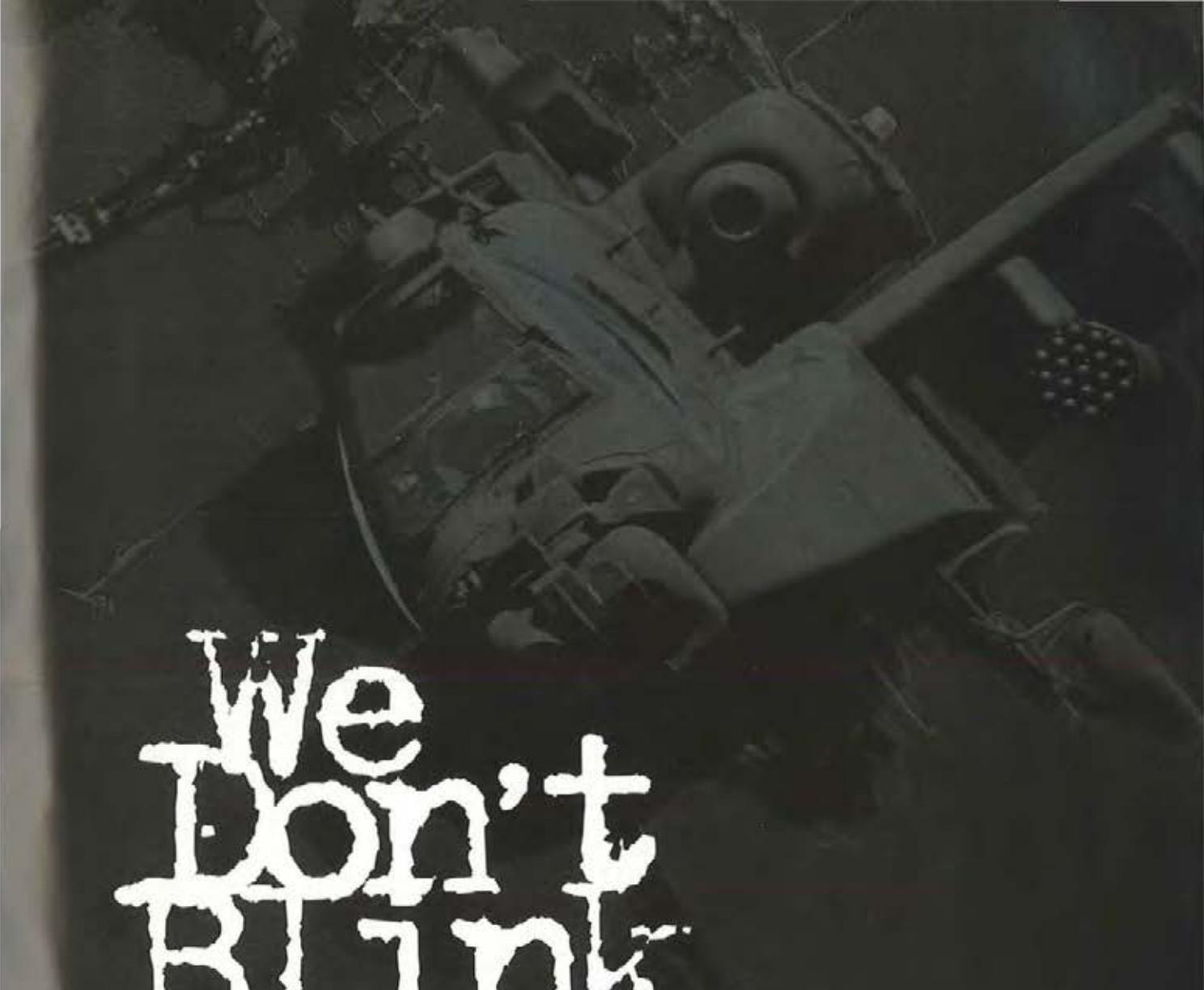
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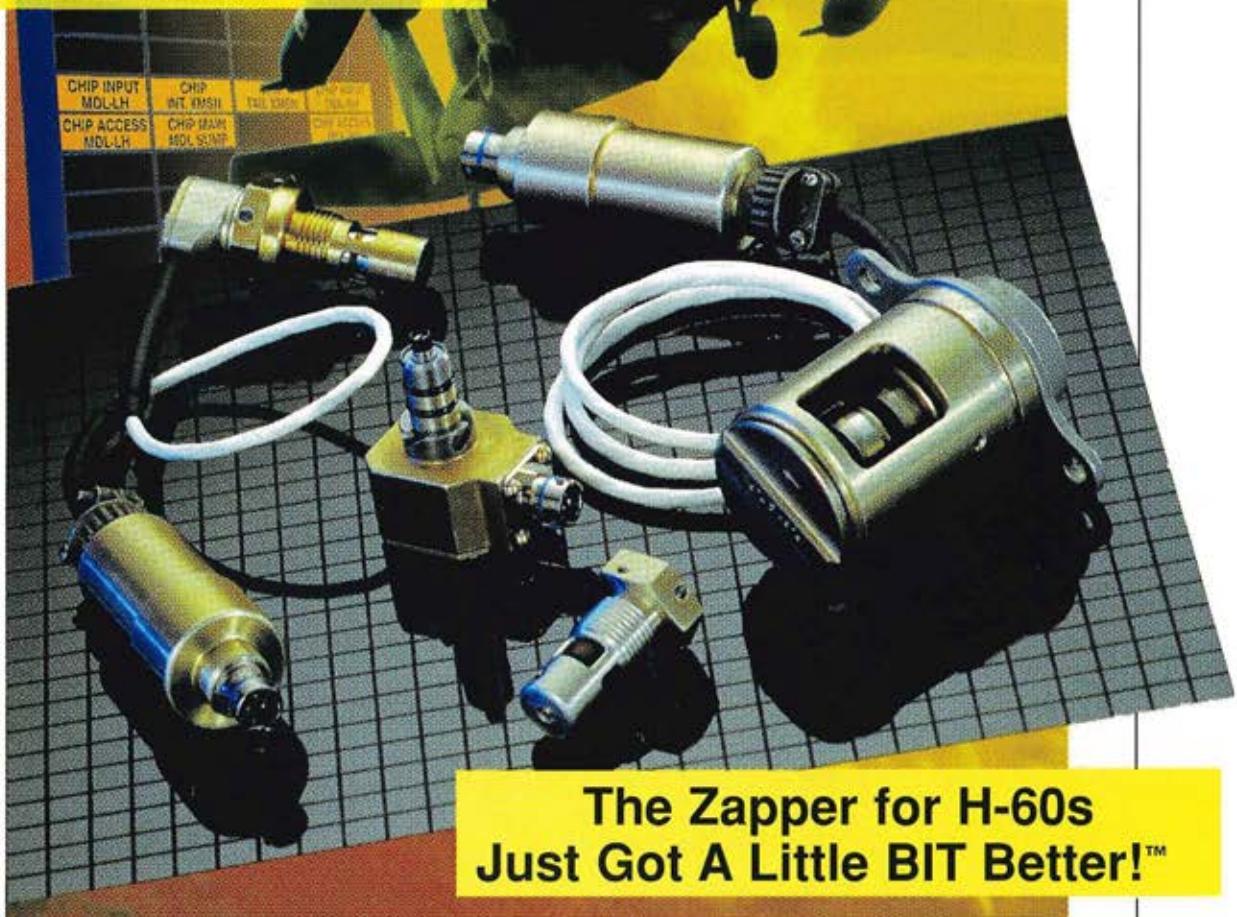
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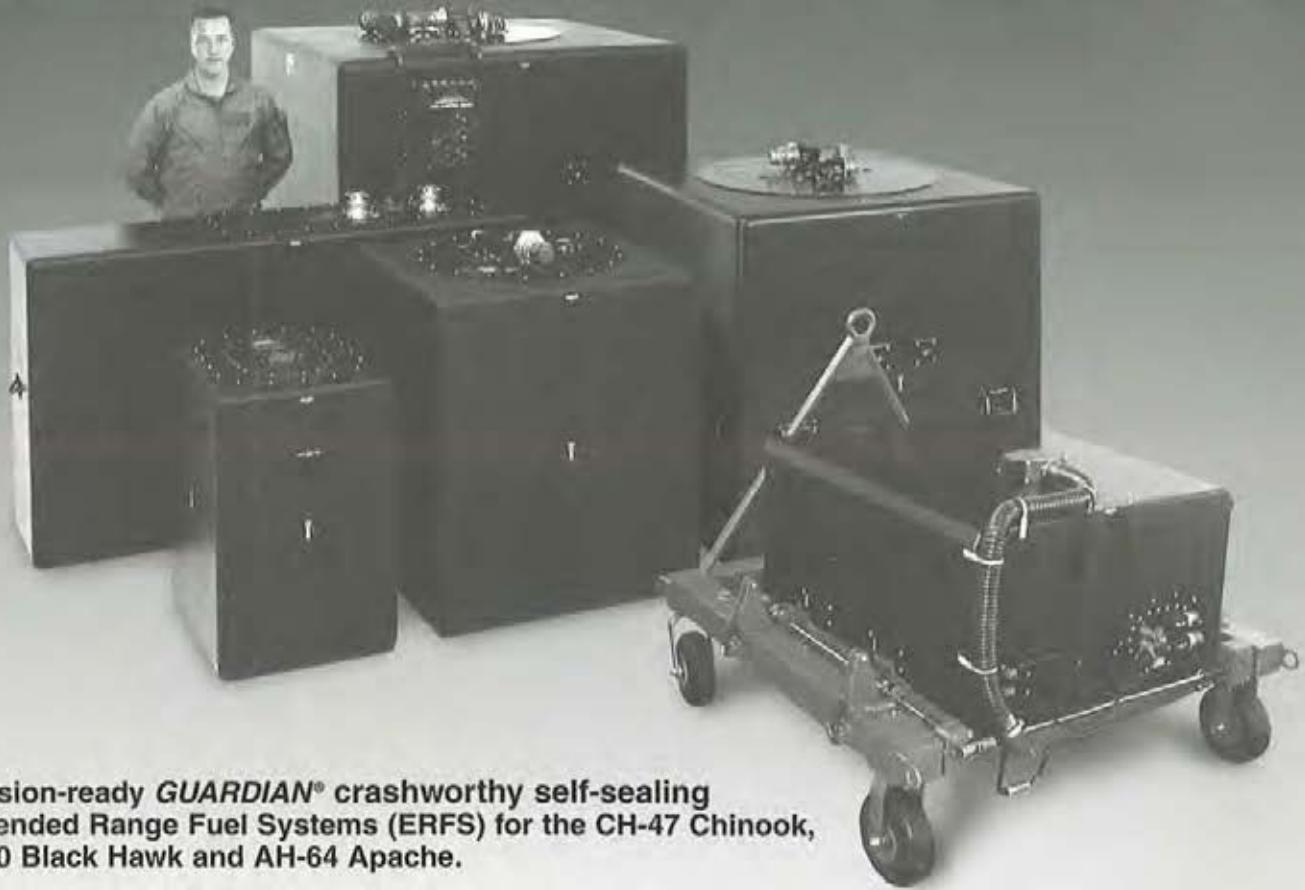
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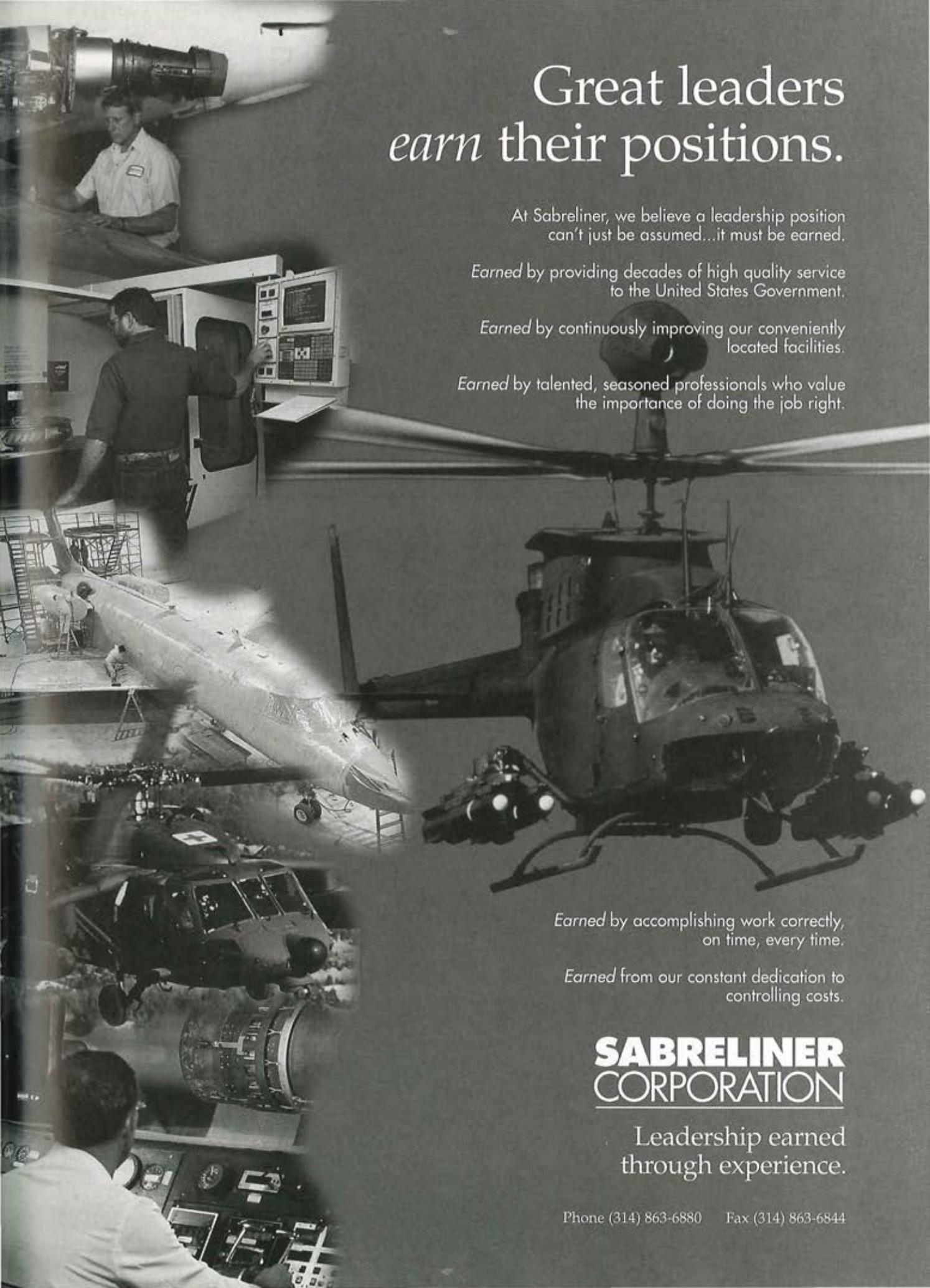
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**1st Aviation Brigade (AA)**  
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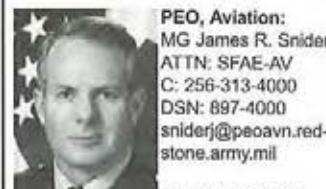
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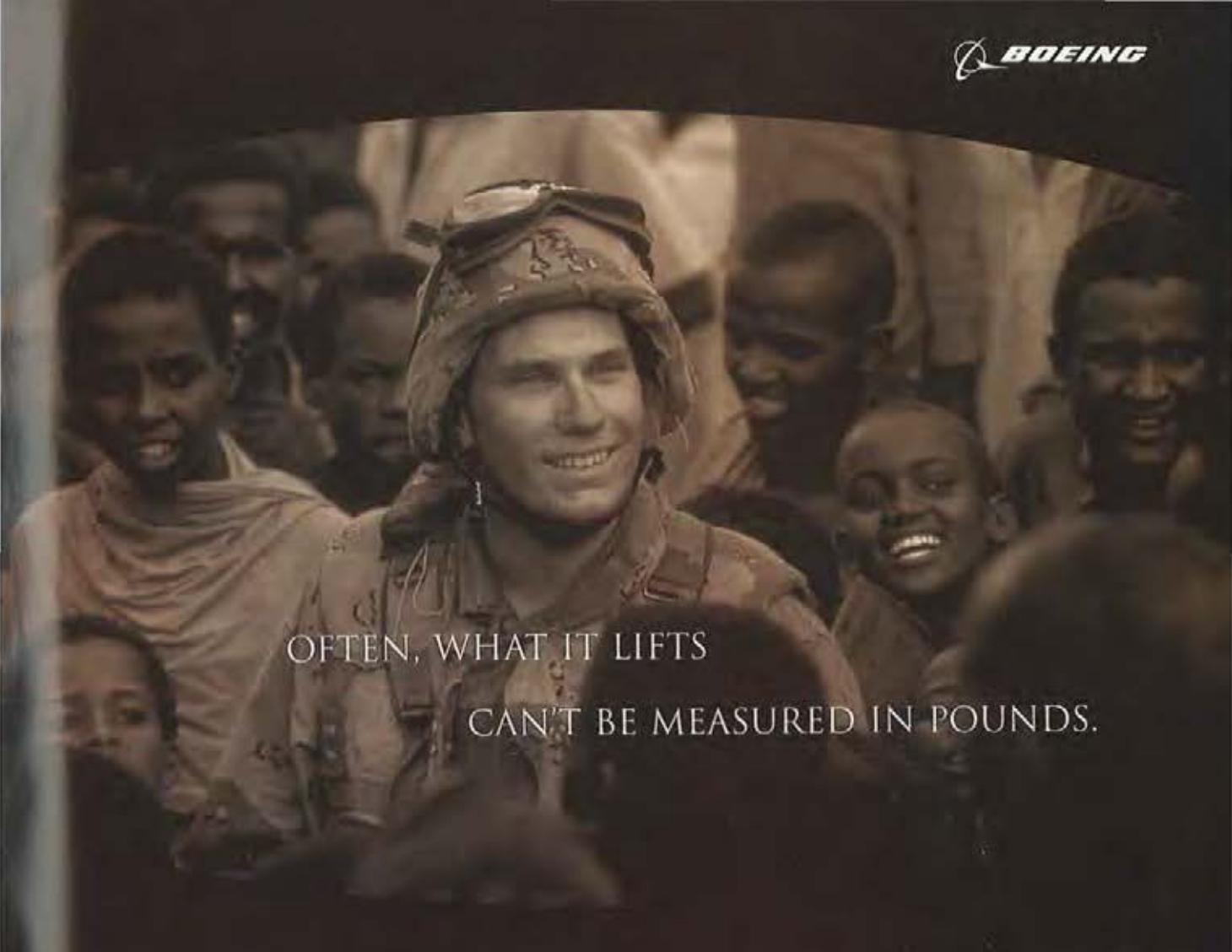


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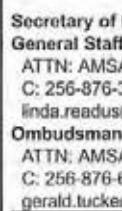
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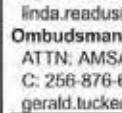
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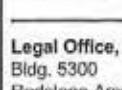


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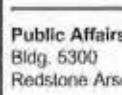
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**Fort Huachuca**

**Aviation Section, U.S. Army Electronic Proving Ground**  
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**Marana**

**1-285th Aviation Attack Battalion**  
Silverbell Army Heliport  
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Marana, AZ 85653  
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PO Box 3001, Bldg. 912

Los Alamitos, CA 90720-1301

**Commander:** LTC Thomas Caples  
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**Senior NCO:** CSM Allen Conely  
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**Aviation Support Facility Los Alamitos**  
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**Executive Officer:** MAJ Ronald K. Taylor

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**571st Medical Company (Air Ambulance)**

**Fort Carson, CO 80913-5000**

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### CONNECTICUT Enfield

**1st Battalion, 169th Aviation National Guard Armory**

**1635 King Street**  
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**Commander:** LTC Ernest T. Erickson  
ATTN: CTTC-AVN-CDR  
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### Windsor Locks

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**CT Army National Guard**  
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**Hunter Army Airfield, GA 31409**

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**1st Attack Helicopter Battalion,**  
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**3rd Infantry Division (Mech)**  
Hunter Army Airfield, GA 31409

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**3rd Squadron, 7th Cavalry**  
**Aviation Brigade**  
**3rd Infantry Division (Mech)**

Hunter Army Airfield, GA 31409

**603d Aviation Support Battalion**

**DISCOM**

**3rd Infantry Division (MECH)**

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**3rd Infantry Division, Directorate of**

**Readiness**

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**CH-47ME:** CW2 Jeff Hutchinson

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**CH-47 SPI/E/ASO:** CW4 Jack Johnson

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### Winder

**Georgia Army National Guard Army**

**Aviation Support Facility #1**

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**Safety Officer/IFE:** CW2 Jerry C.

Baker

ATTN: AASF#1

C: 770-867-6214; DSN: 338-6180

**MTP/ME:** MAJ Anthony K. Sutter

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### Windsor

**148th Medical Company (AA)**

Box 706

Windsor, GA 30680-0706

**Commander:** MAJ Anthony K.

C: 770-867-6324; DSN: 338-6180

**ASO:** CW4 Charles Gibson

C: 770-867-6214; DSN: 338-6180

**SIP/IFE:** CW2 Jerry Baker

C: 770-867-6214; DSN: 338-6180

**MTF:** CW4 Max Hackney

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### Hawaii

#### Fort Shafter

**U.S. Army Pacific (USARPAC), ODC-SOPS Aviation Division**

Fort Shafter, HI 96858-5100

**Chief, Training and Aviation Division:**

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**Chief, Aviation Branch:** Mr. Fred L.

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### Honolulu

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### Schofield Barracks

**325th Forward Support Battalion**  
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**G Company, 58th Aviation Regt (ATS)**  
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**B Company, 214th Aviation Regiment**  
Wheeler Army Airfield, HI 96854-6000  
**Commander:** CPT David Fleckenstein  
C: 808-656-2005; DSN: 455-2005  
**Executive Officer:** 1LT Paul E. Berg  
C: 808-656-2005  
**SIP:** CW4 Jeff "Elmo" Elmore  
C: 808-656-2005  
**Senior NCO:** 1SG Stephen Bolden  
C: 808-656-2005

### Wheeler Army Airfield

**69th Medical Company (AA)**  
Wheeler Army Airfield, HI 96854-6000  
**Commander:** COL Doyle D. Broome, Jr.  
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**2nd Assault Helicopter Battalion,**  
**25th Aviation Regiment**  
**Aviation Brigade**  
25th Infantry Division (Light)  
Wheeler Army Airfield, HI 96854



**Commander:**  
LTC Curtis D. Potts  
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**SIP:** CW3 Perry Matthews  
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**ASQ:** CW3 David Hennies  
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**Senior NCO:**  
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**3rd Squadron (Recon), 4th U.S. Cavalry**  
**Aviation Brigade**  
25th Infantry Division (Light)  
Wheeler Army Airfield, HI 96854

**Commander:** LTC Jeffrey T. Kapperman  
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**C Company, 25th Aviation Regt (AVIM)**  
**Aviation Brigade**  
25th Infantry Division (Light)

Wheeler Army Airfield, HI 96854  
**Commander:** MAJ Gregory A. Fawcett  
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**Hawaii Army National Guard Army**  
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**Ambulance)**  
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Shelbyville, IN 46176-9414

**Indiana Army National Guard Army**  
**Aviation Support Facility**  
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## IOWA Boone

1st Battalion, 109th Aviation  
Regiment (AVIM)  
Iowa Army National Guard  
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Iowa Army National Guard Aviation  
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## Davenport

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## Johnstown

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## KANSAS Fort Riley

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Detachment  
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**166th Aviation Brigade**  
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## New Century

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## Salina

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## Topeka

**1st Battalion, 108th Aviation  
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## KENTUCKY Fort Campbell

**160th Special Operations Aviation  
Regiment (Airborne)**  
Fort Campbell, KY 42223-5000

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\*Change of Command Dec.'99  
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Senior NCO:

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1st Battalion, 160th Special Ops.

Aviation Regiment (Airborne)

Fort Campbell, KY 42223-5000

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2d Battalion, 160th Special Ops.

Aviation Regiment (Airborne)

Fort Campbell, KY 42223-5000

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4th Battalion, 160th Special Ops.

Aviation Regiment (Airborne)

Fort Campbell, KY 42223-5000

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101st Airborne Division (Air Assault)

Fort Campbell, KY 42223-5627

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Assistant Division Commander (Support):

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Division Support Command (DISCOM)

101st Abn. Div. (Air Assault)

Fort Campbell, KY 42223-5000

Commander: COL L. Clay

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8th Battalion, 101st Aviation Regiment

Division Support Command

101st Airborne Div. (AASLT)

Fort Campbell, KY 42223

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50th Medical Company (Air Ambulance)

Fort Campbell, KY 42223-6000

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101st Airborne Division (AASLT)

Aviation Brigade

Fort Campbell, KY 42223

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1st Battalion, 101st Aviation Regt

101st Aviation Brigade (ATK)

101st Airborne Div. (AA)

Fort Campbell, KY 42223

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6th Battalion, 101st Aviation Regt

Avn Bde, 101st Airborne Div. (AA)

Fort Campbell, KY 42223

Commander:

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52

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CSM Anthony Santos

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2d Squadron, 17th Cavalry

Aviation Brigade

101st Airborne Div. (AASLT)

Fort Campbell, KY 42223-6015

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ASO: CW3 Daniel R. Hauf

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AMO: CPT Billy Walls, Jr.

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Senior NCO: CSM Ricky E. Terrell

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3d Battalion, 101st Aviation Regt

Aviation Brigade

101st Airborne Div. (AA)

Fort Campbell, KY 42223

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**159th Aviation Brigade (Assault)**  
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**4th Battalion, 101st Aviation Regiment**  
**159th Aviation Brigade**  
**101st Airborne Division (AA)**  
 Fort Campbell, KY 42223

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**5th Battalion, 101st Aviation Reg.**  
**159th Aviation Brigade**  
**101st Airborne Div. (AA)**  
 Fort Campbell, KY 42223-5000

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**7th Battalion, 101st Aviation Regiment**

**159th Aviation Brigade**

**101st Airborne Div. (AASLT)**

Fort Campbell, KY 42223

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**9th Battalion, 101st Aviation Reg.**  
**159th Aviation Brigade**  
**101st Airborne Division (AA)**  
Fort Campbell, KY 42223

  
**Commander:**  
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### Fort Knox

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337th Regiment  
Fort Knox, KY 40121-5000

  
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**HHC Commander:** CPT Christopher A. Armbrust  
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**Company C Commander:** CPT Troy M. Self  
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**Company D Commander:** CPT Martin J. Tower  
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**Aviation Support Facility Knox**  
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**U.S. Army Armor Center**  
Fort Knox, KY 40121-5000

### Frankfort

**63rd Aviation Group**  
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**Commander:** COL Robert L. Stephens  
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### LOUISIANA Fort Polk

**4th Squadron, 2nd Armored Cavalry Regiment**  
Fort Polk, LA 71459

  
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**812th Medical Company**

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#### Bangor

112th Medical Company (AA)  
345 Fillmore Street  
Bangor, ME 04401-3091

#### MARYLAND Aberdeen Proving Ground

Office, State Army Aviation Officer,  
Maryland Army National Guard  
Army Aviation Support Facility  
Building E408I  
Weide AAF, Edgewood  
Aberdeen Proving Ground, MD 21010-  
5401

Maryland Army National Guard Army  
Aviation Support Facility  
Weide Army Airfield, Building E408I  
Edgewood  
Aberdeen Proving Ground, MD 21010-  
5401

Mobilization AVCRAD Control  
Element (MACE)  
Maryland Army National Guard  
Building E4305  
Aberdeen Proving Ground, MD 21010-  
5401



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Commander:  
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#### Pineville

Louisiana Army National Guard  
Aviation Support Facility #2  
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#### MAINE Augusta

Office, State Adjutant General, Maine  
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Camp Keyes  
Augusta, ME 04333-0033

Maine Army National Guard Army  
Aviation Support Facility  
92 Hayes Street  
Building 260  
Bangor, ME 04401-3091  
AASFC: LTC Rob Carmichael  
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Aviation Brigade  
29th Infantry Division (Light)  
Bldg. E4305 (Edgewood Area)  
Aberdeen Proving Ground, MD 21010-  
5401



Commander:  
COL Alberto J.  
Jimenez  
C: 410-436-2451  
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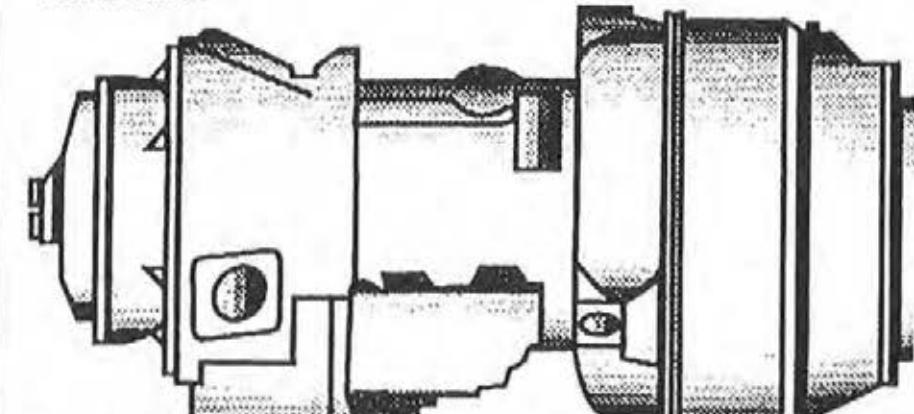
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## MASSACHUSETTS Chicopee

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pt157@aol.com  
Maintenance Officer: CW3 Tim Tompkins  
C: 413-557-3236; DSN: 589-3234  
**SIP:** CW5 Theodore Horman  
C: 413-557-3234; DSN: 589-3234  
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## Otis Air National Guard Base

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## MINNESOTA Camp Ripley

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**Company Commander:** CPT  
Christopher Fredericks  
ATTN: RBAV-ATS  
C: 320-632-7421; DSN: 871-7421  
**Senior NCO:** 1SG Thomas Hiltz  
ATTN: RBAV-ATS  
C: 320-632-7421; DSN: 871-7421

**Ray S. Miller Army Airfield**  
15000 Highway 115  
Camp Ripley, MN 56345-4173  
**Airfield Commander:** MAJ Bruce Bartl  
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mansfield@mn-amg.ngb.army.mil  
**Senior NCO:** SFC Roger Temple  
C: 320-632-7426; DSN: 871-7426

## St. Paul

**B Company, 634 Aviation Support Battalion**  
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St. Paul, MN 55107-1006  
**Commander:** MAJ Mike Cosmey  
ATTN: RBAV-AMC  
C: 651-281-3483  
mboorek@mn-amg.ngb.army.mil  
**Senior NCO:** 1SG Ron Smith  
ATTN: RBAV-AMC  
C: 651-281-3483

**2-147 Aviation Regiment (Assault)**  
206 Airport Road  
St. Paul, MN 55107-1006  
**Commander:** LTC Ted Hoyt  
ATTN: RBAV-ASLT  
C: 651-281-3479  
harrison@mn-amg.ngb.army.mil  
**Senior NCO:** CSM Mike Mannion  
ATTN: RBAV-ASLT  
C: 651-281-3479

**3-147 Aviation Regiment (Attack)**  
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St. Paul, MN 55107-1006  
**Commander:** LTC Mark Dugger  
ATTN: RBAV-ATK  
C: 651-281-3438  
**Senior NCO:** CSM John Ebertowski  
ATTN: RBAV-ASLT  
C: 651-281-3438

**34th Infantry Division Aviation Brigade, Minnesota ARNG**  
206 Airport Road  
St. Paul, MN 55107-1006  
**Commander:** COL Dan Morgan  
ATTN: RBAV-CO  
C: 651-281-3469  
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**Senior NCO:** CSM Gary Gustner  
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Military Department  
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**Mississippi Army National Guard Aviation Support Facility #1**  
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Jackson, MS 39209-3436  
**AASF:** LTC Dan V. Chisolm  
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## Meridian

**Mississippi Army National Guard Aviation Support Facility #3**  
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Meridian, MS 39304-4258  
**AASF:** LTC Felton Watkins  
C: 601-484-9500; DSN: 778-9500

## Tupelo

**Mississippi Army National Guard Aviation Support Facility #2**  
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aasf2ms@ms-amg.ngb.army.mil

## MISSOURI Belton

**146th Aviation Group (Combat)**  
1200 Westover Road  
Belton, MO 64012-4040  
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ATTN: AFRC-CKS-AV-C  
C: 816-348-2629  
**Executive Officer:** MAJ Allan M. Phaneuf  
ATTN: AFRC-CKS-AV-DC  
C: 816-348-2631  
**Senior NCO:** CSM Doris Lewis  
ATTN: AFRC-AMO-AV-CM  
C: 816-348-2628

## Fort Leonard Wood

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Fort Leonard Wood, MO 65473  
**Airport Manager:** Mr. Ronald L. Hodges  
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C: 573-596-0165; DSN: 581-0165  
hodgesr@wood.army.mil

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Missouri Army National Guard  
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Jefferson City, MO 65101-1203

**TAG:**  
MG John D. Havens  
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DSN: 555-9710  
tagmo@mo-nrgnet.army.mil

Office, State Army Aviation Officer,  
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SAAO: LTC Michael D. Ledbetter  
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**Missouri Army National Guard Aviation Support Facility #2**  
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Jefferson City, MO 65101-5007  
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### Springfield

**Missouri Army National Guard Army Aviation Flight Activity #3**  
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Supervisor: LTC John W. Salchow  
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**1107th Aviation Classification Repair Activity Depot (AVCRAD)**  
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Springfield Branson Airport  
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**Personnel Management Officer, Aviation:** MAJ Roy A. Hall  
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### Warrensburg

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wqrkaa@mo-nqnet.army.mil

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### MONTANA Helena

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**Army Aviation Support Facility**  
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**A Co., 1-189th CSAB**  
P. O. Box 4789  
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Commander: CPT John Spencer  
C: 406-841-3500; DSN: 747-3500  
Senior NCO: 1SG Charles Loendorf  
C: 406-841-3500; DSN: 747-3500

### Montana Army Aviation Guard Army Aviation Support Facility

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Maintenance Officer: CW4 Marvin Waples  
C: 406-841-3048; DSN: 747-3048  
Operations Officer: CPT Thomas Malee  
C: 406-841-3035; DSN: 747-3035  
ASO: CW4 Ken Inabnit  
C: 406-841-3035; DSN: 747-3035

**B Co., 1-112th LUH**  
P. O. Box 4789  
Helena, MT 59604-4789  
Commander: CPT Eric Waldorf  
C: 406-841-3522; DSN: 747-3522

**Senior NCO: 1SG Ronald Rasmussen**  
C: 406-841-3520; DSN: 747-3520

**C Co., 1-112th LUH**  
P. O. Box 4789  
Helena, MT 59604-4789  
Commander: CPT Garth Scott  
C: 406-841-3500; DSN: 747-3500  
Senior NCO: 1SG David Bock  
C: 406-841-3500; DSN: 747-3500

**Det 1, 1085th MED**  
P. O. Box 4789  
Helena, MT 59604-4789  
Commander: CPT Mark McGinley  
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**HHC 1-189th CSAB**  
P. O. Box 4789  
Helena, MT 59604-4789  
Commander: CPT Randy Dooley  
C: 406-841-3500; DSN: 747-3500  
Senior NCO: 1SG Dennis Streeter  
C: 406-841-3500; DSN: 747-3500

**1-189th CSAB**  
P. O. Box 4789  
Helena, MT 59604-4789  
Commander: LTC Kevin J. Collins  
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Executive Officer: MAJ David McGuire  
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## NEBRASKA Lincoln

### 1st Squadron, 167th Cavalry

2400 NW 24th Street  
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**Nebraska Army National Guard Army Aviation Support Facility**

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Carson City, NV 89701-5502



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## Nellis AFB

### 414th Combat Training Squadron

3862 Tyndall Avenue  
Nellis AFB, NV 89191-6022

**Redflag Ground Liaison Officer:** MAJ Jay W. Smith  
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## Reno

### 717th Medical Company, Detachment 1

19980 Army Aviation Drive

Reno, NV 89506-1200

**Commander:** CPT Daniel R. Waters  
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**Army Aviation Support Facility**

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Reno-Stead Airport  
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**Nevada Army National Guard Army Aviation Support Facility**

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Reno-Stead Airport  
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## NEW HAMPSHIRE Concord

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#### Army Aviation Support Facility

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USACOM SEC

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**Mission Management Br., CCS/Avionics Dir., CECOM**

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**Office, State Adjutant General, New Jersey ARNG**

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Trenton, NJ 08625-0340

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## West Trenton

**1st Battalion, 150th Aviation**

Scotch Road

West Trenton, NJ 08628-1389

**Commander:** LTC Paul J. Ciervo

C: 609-530-4267

**Executive Officer:** MAJ John C. Dillie

C: 609-530-4267

**SIP:** CW3 Glen E. Malin

C: 609-530-4267

**ASO:** CW4 Gary A. Brenfleck

C: 609-530-4267

**Senior NCO:** CSM James H. Marshall

C: 609-530-4267

**Office, State Army Aviation Officer, New Jersey ARNG**

**Dept. of Military & Vet. Affairs**

Trenton-Mercer County Airport

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**New Jersey Army National Guard Aviation Support Facility #1**

Trenton Mercer Airport

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## NEW MEXICO Holloman Air Force Base

### U.S. Army Air Operations Division

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Holloman Air Force Base, NM 88330

**Director:** CW5 Lawrence A. Morgan

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## Las Cruces

### New Mexico Army National Guard RAID Flight Activity

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**Commander:** 1LT W. Bryan Dennis

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C: 505-541-6802

## Santa Fe

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**NEW YORK**  
**Fort Drum**

**U.S. Army Air Ambulance Detachment**  
10th Mountain Division  
Fort Drum, NY 13602-5000  
**Commander:** MAJ Rafael C. Montagno  
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**U.S. Army Garrison Aviation Division**  
Fort Drum, NY 13602-5000  
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10th Aviation Brigade, 10th Mountain Division (Light)  
Fort Drum, NY 13602

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CSM  
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**1st Battalion (Attack), 10th Aviation Regiment**  
**10th Aviation Brigade**  
10th Mountain Division (L)  
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**2nd Battalion, 10th Aviation Regiment**  
Bldg. 10420  
South Riva Ridge  
Fort Drum, NY 13601



**Commander:**  
LTC Shane M.  
Deverill  
ATTN: AFZS-AV-  
AHB  
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**Executive Officer:** MAJ Jonathan J. Reinebold  
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**Senior NCO:**  
CSM Timothy D. Paul  
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**3d Squadron, 17th Cavalry**

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Fort Drum, NY 13602-5231  
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**Exec. Officer:** MAJ Edward P. Laviviere  
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**SIP:** CW3 Lee Tutin  
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**Sr. NCO:** CSM Robert M. Stubblefield  
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**Office, State Adjutant General, New**

**Latham**

**York Army National Guard**  
330 Old Niskayuna Road  
Latham, NY 12110-2224



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## New Windsor

**U.S. Military Academy Flight  
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2nd Aviation Detachment  
United States Military Academy  
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## Patchogue

**42d Aviation Brigade  
42d Infantry Division  
100 Barton Avenue  
Patchogue, NY 11772-1402  
Commander: COL John A. Meskill  
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C: 516-447-0670**

## Rochester

**1st Battalion, 142d Aviation  
Regiment, NYARNG  
AH-1F  
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**New York Army National Guard  
Aviation Support Facility #1**

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## NORTH CAROLINA Fort Bragg

**Aviation Division, DPTM, Simmons  
Army Airfield**

Fort Bragg, NC 28307-5000  
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**Joint Special Operations Command  
(JSOC)**

PO Box 70239  
Fort Bragg, NC 28307-5000  
**Commanding General: MG Bryan D.  
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**Office, DCS for Special Operations  
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Fort Bragg, NC 28307-5200  
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## 18th Aviation Brigade

### XVIII Airborne Corps

Fort Bragg, NC 28307-5000

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**Executive Officer: MAJ(P) Thurman  
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**ASO: CW5 Larry Newsom**

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## 1st Battalion, 159th Aviation Regiment

### 18th Aviation Brigade

XVIII Airborne Corps

Fort Bragg, NC 28307-5000

**Commander: LTC Charles Breslin**

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C: 910-396-3633; DSN: 236-3533  
breslinc@emh5.bragg.army.mil

## 1st Battalion, 58th Aviation Regiment (Corps) (Airborne)

### 18th Aviation Brigade

Fort Bragg, NC 28307-5000

**Commander: LTC Michael A. Powell**

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C: 910-396-3361; DSN: 236-3361  
powellm@emh5.bragg.army.mil

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**S-2/3: MAJ Peri Anest**

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Signal Maintenance Officer: CW2  
William Huerth

ATTN: AFZA-AV-ATC-BMO  
C: 910-396-7786; DSN: 236-7786

**A2C2 NCOIC: SFC Chester Lambert**

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**Senior NCO: CSM George Williamson**

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## 2d Battalion, 159th Aviation Regiment

### 18th Aviation Brigade

XVIII Airborne Corps

Fort Bragg, NC 28307-5000

**Commander: LTC Richard D. Miller**

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C: 910-396-7300; DSN: 236-7300  
**SIP: CW3 Richard Davis III**

AFZA-AV-CHD-STD

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**ASO: CW4 Aaron S. Ostrander**

ATTN: AFZA-AV-CHD-SF

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**MTFE: CW4 James Smith**

ATTN: AFZA-AV-CHD-A

C: 910-396-9713; DSN: 236-9713

## 4th Battalion, 159th Aviation Regiment

### 18th Aviation Brigade

XVIII Airborne Corps

Fort Bragg, NC 28307-5000

**Commander: LTC Conway S. Ellers**

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**Executive Officer: MAJ Allison R.  
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## 82d Aviation Brigade

### 82d Airborne Division

Fort Bragg, NC 28307

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**Executive Officer: LTC Mason W.  
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**Senior NCO:  
CSM L. Barnard  
Basnight**  
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1st Squadron (AIR), 17th Cavalry  
Regiment  
82d Aviation Brigade  
82d Airborne Division  
Fort Bragg, NC 28306  
Commander: LTC Michael R. Caram  
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carammr@bragg.army.mil  
Squadron Executive Officer: MAJ Kenneth O. Merkel  
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Squadron Operations Officer: MAJ Charles T. Climer  
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Squadron Standards Officer: CW4 Phil Gleaves  
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Squadron Safety Officer: CW3 Greg Goldsmith  
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Squadron Maintenance Office: CW3 Keith White  
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whilewk@bragg.army.mil  
Squadron Command Sergeant Major:  
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digbyj@bragg.army.mil

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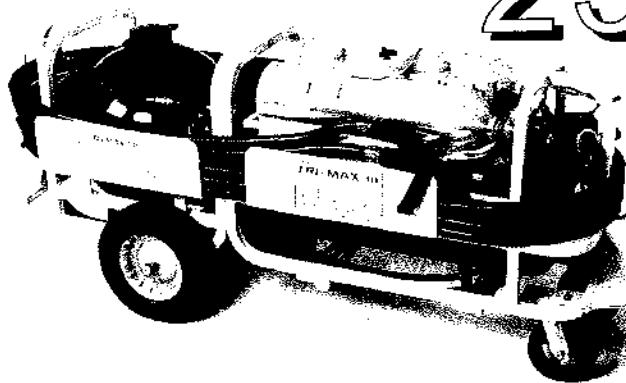
1st Attack Helicopter Battalion  
82d Aviation Brigade  
82d Airborne Division  
Fort Bragg, NC 28307

Commander: LTC Peter E. Curry  
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Executive Officer: MAJ Gregory Seamands  
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ASO: CW2 Michael Conley  
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MTFE: CW4 Randy Olson  
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C: 910-396-7163; DSN: 236-7163  
Senior NCO: CSM Demitrio Orden  
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ordend@emh5.bragg.army.mil

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2d Battalion (Assault), 82d Aviation Regt  
82d Aviation Brigade  
82d Airborne Division  
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ASO: CW4 Ronald Underhill  
ATTN: AFVC-EB  
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Website: www.tri-maxcoldcaf.com

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Senior NCO:  
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56th Medical Evacuation Battalion  
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57th Medical Company (Air Ambulance)  
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229th Aviation Regiment (Airborne)  
Fort Bragg, NC 28307-5000



Commander:  
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S-2: 1LT Tammy Baugh  
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S-4: CPT Richard Melnyk  
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3d Battalion, 229th Aviation Regiment  
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Fort Bragg, NC 28307-5000  
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C: 614-492-3047  
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ATTN: AGOH-TAHB-XO  
C: 614-492-3047  
ASO: CW4 Bill Ashton  
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Senior NCO: CSM Phil Neal  
ATTN: AGOH-AO-CSM  
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**Lexington**

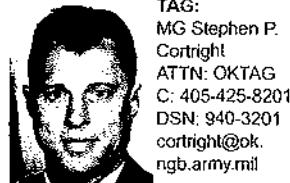
Oklahoma Army National Guard  
Aviation Support Facility #1  
Highway 39 East & 144th Avenue  
Lexington, OK 73051-9549  
AASFC: LTC Jackie L. Self  
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**OREGON  
Pendleton**

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ATTN: TAG  
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Office, State Army Aviation Officer,  
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Army Aviation Spt. Facility#1  
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Aviation Support Facility #1  
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**PENNSYLVANIA  
Annville**

Dat 1, 198th Medical Company (AA)  
Bldg 19-119 FTIG  
Annville, PA 17003-5002

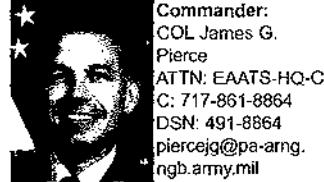
2-104th Aviation Battalion (GSAB)  
Building 19-119  
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Annville, PA 17003-5002

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**28th Infantry Division Aviation  
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Executive Officer: LTC Barney Pultz  
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C: 717-861-8251; DSN: 491-8251  
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Eastern Army National Guard  
Aviation Training Site (EAATS)  
Department of Military Affairs  
Annville, PA 17003-5004



# COBRO MAINTENANCE SCIENCE SCHOLARSHIP

**Financial need is not a criterion.  
Personal motivation is!**

**FOR MORE INFORMATION:**

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Parks College of Engineering and Aviation  
Saint Louis University  
3450 Lindell Boulevard  
P.O. Box 56907  
St. Louis, MO 63156  
(314) 977-8203

**DEADLINE FOR APPLICATION:**  
November 1, 1999,  
for Spring 2000 Semester.

May 1, 2000,  
for Fall 2000 Semester.

Parks College of Engineering and Aviation of Saint Louis University invites applicants for the Cobro Maintenance Science Scholarship to be awarded after November 1, 1999, for the semester beginning January 2000. The award will be for a minimum of \$19,000, renewable for up to three academic years.

**APPLICANTS MUST HAVE:**

- Achieved a 3.3 grade point average out of a possible 4.0 and have completed 60 semester hours or the equivalent at the college/university level.
- Contributed more than 50 percent of the cost of their college/university education from their own earnings (including military benefits).
- Completed at least one full year's employment in the avionics or a related industry (including military service).

Preference will be given to candidates who are U.S. citizens and who demonstrate a knowledge of computer-maintained databases, statistical inference analysis and an understanding of the key role of maintenance science and administration.

**PARKS COLLEGE of ENGINEERING and AVIATION  
SAINT LOUIS UNIVERSITY**

**Deputy Commander:** LTC Peter D. Anzulewicz  
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**TEXAS**  
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**49th Armored Division Aviation Bde.**  
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**Commander:** COL Gerard B. Nery, Jr.  
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**Senior NCO:** CSM Patrick Hogan

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**49th Armored Division Aviation Brigade, Company F, 149th Aviation**  
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**Commander:** MAJ Jeanne Buschow  
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**Texas Army National Guard Aviation Support Facility #1**  
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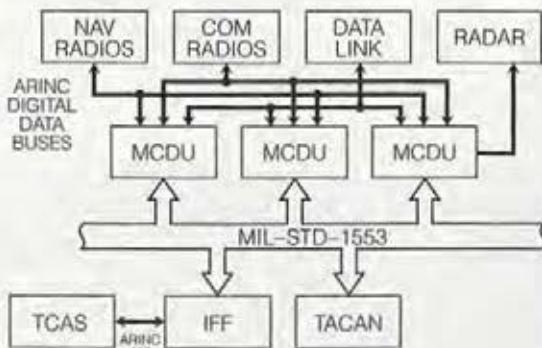
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### Fort Hood

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Fort Hood, TX 76544

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**1st Squadron, 10th Cavalry**

**4th Aviation Brigade**

**4th Infantry Division (Mech)**

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**1st Attack Battalion, 4th Aviation Regiment**  
4th Infantry Division (Mech)  
Fort Hood, TX 76544-5200



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**1st Battalion, 227th Aviation Regiment**

**4th Brigade**

**1st Cavalry Division**

**Fort Hood, TX 76545**

  
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1st Squadron, Seventh Cavalry  
1st Cav Aviation Brigade  
Fort Hood, TX 76545-5113



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2nd Battalion, 227th Aviation Regiment  
4th Brigade (Avn)  
1st Cavalry Division  
Fort Hood, TX 76545



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**21st Cavalry Brigade (Air Combat)**  
**III Corps and Fort Hood**  
Fort Hood, TX 76544-5038



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**49th Armored Division Aviation Brigade, Company H, 149th Aviation**  
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# AAAA

## 1999 AIRCRAFT SURVIVABILITY AND AVIONICS SYMPOSIUM\*

**30 November - 3 December 1999**

**Hilton Mesa Pavilion, Mesa, Az**

\* To be held in conjunction with the

Joint Technical Coordinating Group for Aircraft Survivability (JTCG/AS) meeting.

The 14th Annual AAAA ASE & Avionics Symposium will be held 30 November - 3 December 1999 at the Hilton Mesa Pavilion, Mesa, AZ in conjunction with the Joint Technical Coordinating Group for Aircraft Survivability (JTCG/AS) meeting. Under the co-chairmanship of the PM Aviation Electronic Combat and the PM Advanced Infrared Countermeasures & Common Missile Warning System the program will feature a day and a half of open sessions.

There will also be other additional classified briefings in the area of Aircraft Survivability.

These classified sessions will take place Thursday afternoon and Friday morning at the Boeing facility in Mesa. EWOs are encouraged to attend.

**Contact the AAAA National Office for more details. 203-226-8184.  
Exhibitors contact Bob Lachowski, ext 131.**

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## **Williamstown**

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West Virginia Army National Guard  
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B Company, 2-228th  
Fort McCoy, WI 54656  
Commander: CPT Scott Morcomb  
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Aviation Support Facility McCoy  
Fort McCoy, WI 54656-5143  
Facility Supervisor: Mr. Rodney W. Lauck  
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## **WISCONSIN Madison**

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Wisconsin Army National Guard  
Aviation Support Facility #2  
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ASO: CW4 Robert C. Kenney

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MTP: Mr. Robert G. Seales  
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Senior NCO: CSM Jeffery S. Janke  
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## **West Bend**

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## **Wisconsin Army National Guard Aviation Support Facility #1**

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## **WYOMING Cheyenne**

1022d Medical Company

5500 Bishop Boulevard  
Cheyenne, WY 82009  
Commander: MAJ Scott H. Schofield  
C: 307-772-5247; DSN: 943-5247  
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Office, State Adjutant General,  
Wyoming Army National Guard  
500 Bishop Boulevard

Cheyenne, WY 82009-3320

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Army Aviation Support Facility  
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Cheyenne, WY 82009-4807

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Wyoming Army National Guard  
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4600 Powderhouse Road

Cheyenne, WY 82009-4807

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## **CANAL ZONE APO AA**

1-228th Aviation Regiment

U.S. Army South

Fort Kobbe, Panama

APO AA 34001

Commander: LTC Robert M. Townsend

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C: 011-507-284-9236 DSN: 284-9228

Exec. Officer: MAJ Vito Oter

ATTN: SOAR-PMX  
C: 011-507-284-9236 DSN: 284-9228

SIP: CW3 Billy Phillips

ATTN: SOAR-PMO

Senior NCO: CSM Michael C. McSwain  
ATTN: SOAR-PMO DSN: 284-9236

Company D, 228th Aviation Regiment

U.S. Army South

PSC 42, (JTF-B)

Soto Cano AB, Honduras

APO AA 34042

Commander: MAJ Vincent Reap

ATTN: SOAR-PMG  
C: 011-504-237-8833; DSN: 449-4306

Exec. Officer: CPT James J. Walton

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MEDEVAC Detachment Commander:

CPT Michael Pouncey

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C: 011-504-378-8323-4232; DSN: 449-4232

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C: 011-504-378-833-4241; DSN: 449-4241

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C: 011-504-378-833-4531; DSN: 449-4531

**ASO:** CW2 Charles D. Petrie  
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**C:** 011-504-378-833-4562; **DSN:** 449-4562  
**MTFE:** CW3 James E. Wilson  
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**C:** 011-504-378-833-4252; **DSN:** 449-4252  
**Senior NCO:** 1SG Ricky L. Coston  
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**C:** 011-504-378-833-4477; **DSN:** 449-4477

## GERMANY APO AE

### Multinational Force and Observers

USAE-MFO, Unit 31520

**APO AE 09832**

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**U.S. Army Flight Operations Det.**  
**USAREUR & 7th USA**

Unit 29231

**APO AE 09102**

**Commander:**  
**CW5 Joe Irvine**  
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**C:** 011-49-6221-17-6201  
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**Flight Operations Officer:**  
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**Flight Operations Officer:** CW4

Seamus O'Shea  
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**Senior NCO:** SFC Nella Basconcillo  
**ATTN:** AEAGC-AV-AFOD-1SG  
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**basconcillton@hq.hqusareur.army.mil**

**159th Medical Company (AA)**  
**CMR 467**  
**APO AE 09096**  
**Commander:** MAJ William J. Layden  
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**2-502d Aviation Regiment**  
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**MTFE:** CW3 Joe Q. Benton  
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**236th Medical Company**  
**CMR 402**  
**APO AE 09180-3630**

**45th Medical Company (AA)**  
**APO AE 09250**  
**Commander:** MAJ Pete Smart  
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**C:** 09802832 793; **DSN:** 467-2793  
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**SHAPE Flight Detachment**  
**Unit 21409, CMR 450**  
**APO AE 09705**  
**Commander:** LTC Barry Stuckey  
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**C:** (32) 68-27-5277; **DSN:** 361-5277  
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**SIP:** CW4 Robert L. Arms  
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**HQ USAREUR/7A ODCSOPS-AVN**  
**Unit 29351**  
**APO AE 09014**  
**USAREUR Aviation Officer:** Mr. James P. Phillips  
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**C:** (49) 6221-57-6095; **DSN:** 370-6095  
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**Action Officer:** MAJ Travis Flewelling  
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**Army Flight Operations Detachment (AFOD), ODCSOPS, USAREUR**  
**Unit 29351**  
**APO AE 09014**  
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**Detachment Sergeant:** SFC Rosalyn Muse  
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**Operations Officer:** CW5 Thomas Brandli  
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**214th Aviation Battalion**  
**Unit 29231**  
**APO AE 09102**  
**Commander:** LTC Thomas J. Comodeca  
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**200th Theater Army Materiel Management Center**  
**Unit 23203**  
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**Chief, Aviation, Troop Missile Division:** Mr. Chuck Barnes  
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**Chief, Aviation Branch:** Mr. David Spinks  
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**Combat Maneuver Training Center**  
**CMR 414, Box 1823**  
**ATTN: Falcons**  
**APO AE 09173-1823**

**Aviation Detachment Senior Trainer:**  
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**7th Army Training Command, Aviation Detachment**  
**Grafenwoehr Army Airfield**  
**APO AE 09114-5413**

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**Aviation Office, V U.S. Corps**  
**12th Avn. Bde., Unit 29632**  
**APO AE 09096**  
**V Corps Aviation Officer:** COL Jeff J. Schloesser  
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**4th Brigade, 1st Armored Division**  
**CMR 477**  
**APO AE 09185**  
  
**Commander:** COL Christopher L. Sargent  
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**Executive Officer:** MAJ Darryl Shamblin  
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**C:** (49) 6183-51-467; **DSN:** 322-7467  
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**1-501st Attack Helicopter Battalion**

4th Brigade

CMR 477

1st Armored Division

APO AE 09165-1539

Commander: LTC Daniel Garvey

ATTN: AETV-THR-B

C: (49) 6183-51-504; DSN: 322-7504

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Executive Officer: MAJ John Dowd

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MTFE: CW3 David Terry

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**2nd Battalion, 501st Aviation Regiment**

4th Brigade

CMR 477

1st Armored Division

APO AE 09165

Commander: LTC Steve Westphal

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C: (49) 6184-51-701; DSN: 322-7701

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SIP: CW3 Bob Caprara

ATTN: AETV-THR-C-SS

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Senior NCO: CSM Gary L. Moore

ATTN: AETV-THR-C-CSM

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**127th Aviation Support Battalion**

Unit #20198

APO AE 09165-1624

Commander: LTC Timothy Cornett

ATTN: AETV-THR-SB

C: (49) 6183-51-528; DSN: 322-7528

Executive Officer: MAJ Riggins

ATTN: AETV-THR-SB-XO

C: (49) 6183-51-440; DSN: 322-7440

Senior NCO: CSM Mike Marler

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HQ &amp; Supply Company Commander:

CPT Scott Rhoden

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A Company (AVIM) Commander: CPT

Randy Masten

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B Company (Ground Maintenance)

Commander: CPT Pam Holwerda

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**4th Brigade, 1st Infantry Division**

CMR 454

APO AE 09250



**Commander:**  
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**Brigade S-3:** LTC John Karaus

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**SIP:** CW5 Leon McNeelley

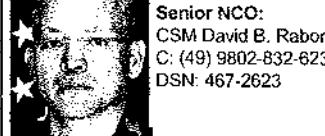
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**1st Battalion, (Attack) 1st Aviation Regiment "Gunfighters"**

Aviation Brigade, 1st Infantry Div

CMR 454

APO AE 09250



**Commander:**  
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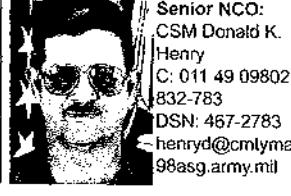
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**1st Squadron, 4th U.S. Cavalry**

Aviation Brigade

1st Infantry Division

CMR 464

APO AE 09226

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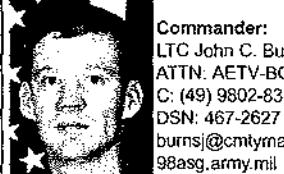
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**2nd Battalion, 1st Aviation Regiment**

CMR 454

APO AE 09250



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**601st Aviation Support Battalion**

DISCOM, 1st Infantry Division

CMR 454

APO AE 09250

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**12th Aviation Brigade**

Unit 29632

APO AE 09096-5000

**Commander:**

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**3d Battalion, 58th Aviation Regiment (ATS)**

Unit 31020

CMR 430

APO AE 09096



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CMR 408  
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**11th Aviation Regiment**  
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**2d Squadron (Attack), 6th Cavalry "Fighting Sixth"**  
**11th Aviation Regiment**  
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**Commander:**  
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**MTFE:** CW3 Jeff Fitzgerald  
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**6th Squadron (Attack), 6th Cavalry "Sixshooters"**  
**11th Aviation Regiment**

**ATTN:** APO AE 09140

**Commander:**  
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Blaifer  
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**7th Battalion, 159th Aviation Regiment**  
CMR 416  
**ATTN:** APO AE 09140

**Commander:**  
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**1st Military Intelligence Battalion, (Aerial Exploitation)**

CMR 430  
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**Commander:**  
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Campbell  
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## KOREA APO AP

**Camp Page Army Airfield**  
Unit #15002

**Commander:** CW3 Thomas R. Byrne  
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**Camp Red Cloud Sub-Post Camp Page**  
Unit #15002

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**542d Medical Company**  
Unit #15705

**ATTN:** APO AP 96208-0705

**Aviation Office, Eighth U.S. Army**  
APO AP 96204  
**Aviation Officer:** COL William J. Hatch  
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**17th Aviation Brigade**  
Unit #15270

**ATTN:** APO AP 96205-0043

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**1st Battalion, 52nd Aviation**  
**17th Aviation Brigade**  
Unit #15266  
APO AP 96205-0039

  
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**Senior NCO:**  
CSM Maurice L. Johnson  
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**164th Air Traffic Services Group**  
Unit #15276, Box 484  
APO AP 96205-0049

  
**Commander:**  
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**2nd Battalion, 52nd Aviation**  
**Regiment**  
**17th Aviation Brigade**  
Unit 15188  
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**5th Battalion, 501st Aviation**  
**Regiment**  
**17th Aviation Brigade**  
Unit #15567  
APO AP 96297-0626

**Aviation Brigade, 2d Infantry Division**  
Unit #15435  
APO AP 96257-0481  
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**1st Battalion, 2nd Aviation Regiment**  
**Aviation Brigade, 2ID**  
Unit #15008  
APO AP 96208-0474

  
**Commander:**  
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**Senior NCO:** CSM Steven A. Tomaziefski  
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**2d Battalion (Assault), 2d Aviation**  
**Regiment**  
**Aviation Brigade, 2ID**  
Unit #15427  
APO AP 96257-0460

  
**Commander:**  
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(Provisional)**  
APO AP 96343-0084



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## Briefings continued from page 3

Fort Campbell, Ky.-based battalion, which is equipped with 24 AH-64Ds, will undertake full-scale unit training aimed at combat-ready certification in late October. The Army fielded its first Apache Longbow battalion in October 1998.

Prescription drug provider Merck-Medco Managed Care LLC reported that by late June it had filled more than 1 million prescriptions for DOD's National Mail Order Pharmacy (NMOP) program. The firm provides worldwide mail service prescription benefits to eligible retirees and active duty military personnel and their families. Details on the program are available at the Merck-Medco Managed Care Online website at [www.merck-medco.com](http://www.merck-medco.com).

The U.S. Army Information Systems Software Center-CECOM at Fort Belvoir, Va., announces the following Armywide software maintenance contract awards:

### BLAST

Contract Number DADW35-99-D-0011  
Award date: April 1, 1999 (Armywide, base plus 4 option years).  
COR: Mr. Keith Pope. E-mail address: popek@issc.belvoir.army.mil, FAX: (703) 806-3318 or (DSN) 656-3318, Phone: (703) 806-3382 or (DSN) 656-3382

### NETMANAGE and Hummingbird

Contract Number DADW35-99-D-0010 (NETMANAGE)  
Contract Number DADW35-99-D-0013 (HUMMINGBIRD)  
Award date, both: April 14, 1999 (Armywide, base plus 4 option years).  
COR: Ms. Faye Johnson. E-mail address: johnsonf@issc.belvoir.army.mil, FAX: (703) 806-3318 or (DSN) 656-3318, Phone: (703) 806-3800 or (DSN) 656-3800

### NOVELL

BPA Number DAAB15-99-A-0013  
Award date: April 1, 1999 (Armywide, base plus 4 option years).  
COR: Ms. Susan Padgett. E-mail address: padgetts@issc.belvoir.army.mil, FAX: (703) 806-3318, or (DSN) 656-3318, Phone: (703) 806-3467 or (DSN) 656-3467

A new partnership between the Defense Department and the National Automotive Parts Association (NAPA) will allow military motor pools and other units to get large discounts and have access to huge automotive parts inventories and delivery service. The corporate contract — managed by the Defense Logistics Agency's Defense Supply Center in Columbus, Ohio — allows registered units to save 20 to 50 percent on repair parts by using their government credit cards at NAPA dealers. NAPA offers more than 230,000 parts through a distribution network of 9,200 dealers and 71 regional distribution sites — a system capable of delivering in-stock parts within minutes and special orders within 24 hours. For more information about the NAPA contract or other DLA corporate contracts with some of the nation's major corporations, call Calvin Tubbs at (614) 692-1755, (DSN) 850-1755, FAX (614) 692-4759, (DSN) FAX 850-4759, or e-mail [Calvin\\_Tubbs@dsc.dla.mil](mailto:Calvin_Tubbs@dsc.dla.mil)



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**Correction:** Tom McDonald, author of our July 1999 article on the development of armed helicopters, should have been identified as an Army Reserve AH-64 instructor pilot with Company A, 8th Battalion, 229th Aviation Regiment, at Fort Knox, Ky. He was recently recalled to active duty for service in Bosnia, along with most members of his unit.



Share your opinion on matters of interest to the Army aviation community. The publisher reserves the right to edit letters for style, accuracy or space limitations. All letters must be signed and authors identified. The publisher will withhold the author's name upon request. The opinions expressed are those of the authors, and do not reflect the opinion of ARMY AVIATION Magazine. Send letters to AAAA MAILBOX, 49 Richmondville Ave., Westport, CT 06880-2000, Tel: (203) 226-8184, FAX: (203) 222-9863, E-Mail: [aaaa@quad-a.org](mailto:aaaa@quad-a.org).

Dear Editor:

I felt a great deal of pride when I saw your pictorial on the highlights of the 1999 AAAA convention — specifically the part about the induction of PFC Garfield M. Langhorn into the Army Aviation Hall of Fame.

I was a Cobra pilot with C Troop, 7th Squadron, 17th Cavalry, in Vietnam at the time of PFC Langhorn's death in a very intense fire-fight. Our Aero-Rifle platoon was greatly outnumbered by a North Vietnamese Army regiment; the "blues" had recovered the bodies of two of our Cobra pilots who'd been shot down.

It is now some 30 years since that action, but I still remember PFC Langhorn and others from the troop. This fine young man was honored by this induction and was recognized by the award to him of the Medal of Honor.

Thank you for your recognition of PFC Langhorn.

Jack G. Mazzuca  
Temple, Texas

Dear Editor:

I picked up your April/May 1999 issue and saw the article by Maj. Bullinger that described the flight by a Russian pilot across Africa. He described it as "the ultimate self-deployment by helicopter."

I disagree.

I deployed to Liberia, West Africa, in 1996 and worked extensively with Russian chopper pilots. Our mission underwent several changes, and as a result we required extensive transport capabilities. To fill the void, an Mi-26 was flown in from Russia. In addition to the 5,000 gallon fuel capacity of the aircraft, two additional 2,500 gallon fuel cells were mounted inside the cargo bay.

One of my most memorable experiences came when the crew decided to transport additional fuel to the Ivory Coast using a 3,000 gallon bladder. The bladder was punctured during the loading process but the leak wasn't discovered until the aircraft was airborne. Fuel was ankle deep in the aircraft and as it leaked through holes in the fuselage, the main rotor pushed it down, around and up over the aircraft. Unbelievably, the aircraft was able to land without incident.

MAJ Scott Smith  
G-3 Operations  
85th Division

CWO 4 Dan Edwards  
Chief, Flight Operations  
DCMC Boeing  
Mesa, Ariz.

Dear Editor:

I would like to correct a correction. I'm referring to Jim Scudder's letter in the July 31 issue, in which he stated that during the Korean War each U.S. infantry division was assigned four H-13 helicopters. Maybe there were four in the 7th Division, but in the 3rd Inf. Div. we had two!

Rotary-wing aviators were somewhat of a rarity at that time in Korea. When I arrived, shortly after Christmas 1951, Lee Rodewald and I were the two chopper pilots in the division. He was in the division's Headquarters Company, and I was Maj. Gen. Cross's pilot. I was assigned to an artillery battalion and fled daily combat missions, but backed up Lee for chopper missions. We sure could have used four aircraft.

After serving in the 3rd Inf. Div. I was reassigned to "Dragon Flight," the Eighth Army Flight Detachment at the Seoul Racetrack. We served a constant flow of VIPs and international dignitaries, and pilots were pooled from units all over the peninsula to move large groups around. The prestige aircraft for the very senior folks was the L-19 - each VIP just had to have his own aircraft and wouldn't be caught dead jammed with someone else into an L-20 Beaver.

Army aviation's relatively few choppers did indeed do yeoman service in Korea, and their performance there was instrumental in the ultimate full adoption by the Army.

Col. Colin Douglas Ciley Jr. (Ret.)  
Niceville, Fla.

Dear Editor:

I feel I must respond to Dr. James Scudder's July letter regarding Gen. Jones' article in the April-May issue.

I was rated a liaison pilot/Army aviator in December 1949 and went through helicopter transition en route to Korea in June and July of 1951. I was assigned to Headquarters & HQS Company, 2nd Infantry Division and, like Dr. Scudder, I was the only helicopter-rated pilot in the unit. I became the pilot for the commanding general, Gen. Robert N. Young.

I respect Dr. Scudder for his service, of which I am sure he is justifiably proud. However, I think he read something into the general's article that wasn't there. First, the general never mentioned numbers of aircraft, only types. Second, Dr. Scudder cannot speak for the aircraft assigned to the 2nd Inf. Div. at that time. The fact is we only had one H-13 in the division air section, and I was its pilot until December 1951. At that time I was transferred to the 8076 MASH at Hwachon, where I flew medevac with the 8193rd Helicopter Detachment.

Maj. H.E. Ziegler (Ret.)

Dear Editor:

I read with great interest Maj. Gen. Anthony Jones' June article "Army Special Operations Aviation." He rightly noted how the 160th Special Operations Aviation Regiment consistently sets the Army's pace with respect to the introduction of new aviation technologies and procedures.

Yet there remains one new technology the Army has yet to embrace, one that offers great promise — the tilt-rotor V-22 Osprey.

The craft's unsurpassed ability to take off and land like a helicopter while flying at speeds and ranges of fixed-wing airplanes will vastly increase the speed and range with which the Marine Corps can move shipboard combat power deep inland. And the Navy plans to buy 48 Ospreys outfitted for combat search and rescue. Realizing the Osprey's utility for unconventional missions, the Air Force intends to buy 50 for special operations.

If Army special operations aviation is to remain "Above the Best," the Osprey demands Army examination. Its development costs have already been paid elsewhere. Production models are now entering Marine Corps service. Most importantly, the Osprey will help the Army become better able to deploy more quickly.

Ernest Blazar

Senior Fellow, The Lexington Institute  
Arlington, Va.

## An Operations Order

Plan your career transition as you would a military enterprise.

Without a plan for your career transition, you are like a moving target hoping to get hit by a job. If you find yourself at a loss about where to start, try putting some of your service-learned organizational skills to work. One great place to begin is the simple five-paragraph Operations Order (OPORD). Designed for military operations, this method of organizing your time, family, skills, interest, and resources to attack your objective should get your second-career search on track.

**Situation:** This first paragraph requires a thorough analysis of your current military and family situation. Are you sure you're doing the right thing by leaving the military? This is the first critical step in deciding the what, where and why of your next career. Make sure you understand the challenges of changing careers and are not leaving military service because of one bad boss or one bad assignment - the civilian world can be just as bad, sometimes worse.

When you write this section, include two crucial subparagraphs: the "enemy" and "friendly" situations. Analyze the potential job market as though it were the enemy situation in an OPORD. Where are the jobs? What do they pay? What type of education and skills are required to obtain, and be successful in, them? Who do you know in the business? These are just a few of the questions to consider.

The friendly situation considers your particular skills in relation to the career field and job market you have decided to pursue. You may not be a perfect match, but you should be in the ballpark if you want to play the game successfully. Don't use your efficiency reports as a yardstick of how good you are; be humble and honest in your self-analysis.

**Mission statement:** This is the most important statement you will ever write. Until you know what you want to do, you cannot organize your resources and "attack" the job market. Some simple mission statements include: seeking a position as a legal administrator; seeking a program/project management position in logistics; seeking a position in human-resource training management. If you keep your mission statement short, potential employers will know exactly what you want to do. You may come up with more than one mission statement, which is fine as long as you can execute each of them. A mission statement also can help you focus your resume.

**Execution:** This section describes how you, and your family, will move from the military community to a civilian job with as few bumps as possible. Some steps to execute: Decide exactly when you are leaving the military and what it is you want to do; conduct research about the career field; attend base transition programs; go to job fairs, conduct informational interviews; and pursue any education or certifications you'll need.

**Service and support:** Here, you'll lay out the services and support you will require to successfully execute your transition. What type of clothes will you need? What type of home or business equipment (an additional phone line, upgraded computer or fax machine, typing paper, reference books or CDs) will you need? Do you have your bills under control? Do you know what your living expenses are and what salary you require to maintain the standard of living you enjoyed on active duty?

**Command and signal:** This paragraph contains your aggressive plan for networking with everyone you have ever known who can help you find a job. List every person or organization on the planet who can help you in your job search, and make a concerted effort to contact each one for assistance.

Your completed OPORD should give direction to your career transition while allowing flexibility and enthusiasm toward any opportunity. Now, start writing.

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## U.S. Postal Service

The U.S. Postal Service has unveiled a new postage stamp commemorating the Vietnam War and, indirectly, the contribution made during that conflict by Army aviation.

Designed by Carl Herrman of Laguna Niguel, Calif., the stamp features a photograph by SFC Howard C. Breedlove of men of the 1st Squadron, 9th Cavalry, 1st Cavalry Division, leaping from a hovering UH-1H helicopter during operations near Chu Lai in the spring of 1967. The photo is one of the most widely recognized pictures to come out of the Vietnam War, and the image of a well-worn Huey depositing troops on a battle-scarred hilltop is one of the conflict's most enduring — and characteristic — images.

The stamp was selected by the public during nationwide balloting in May 1998 as one of 15 commemorative stamps saluting the 1960s. The Vietnam War (1954-1975) was the longest military conflict in U.S. history. The hostilities in Vietnam, Laos and Cambodia claimed the lives of more than 58,000 Americans. Another 304,000 were wounded.

For more information on stamps, or to see an image of the Vietnam War stamp, visit the Postal Service Website at [www.usps.com](http://www.usps.com) and click on "Stamps."

## AVIATION EDUTAINMENT

What's New on the Web, TV & PC



### Forms, Publications, Magazines, etc:

#### Army Corps of Engineers:

<http://www.usace.army.mil/usace-docs>  
(Army engineering publications)

#### Army Doctrine and Training Digital Library:

<http://www.adtdl.army.mil>  
(Information on Army schools and Army documents)

#### Army Reserve Magazine:

<http://www.army.mil/usr/armag/armag.htm>

#### DOD Electronic Forms:

<http://web1.whs.osd.mil/fcdhome/ddeforms.htm>  
(Contains some forms not included on USAPA web site)

#### Military Periodicals:

<http://www.dtic.mil/search97/doc/aulimp/main.htm>  
(Index to Military Periodicals)

#### Army Forces Command (FORSCOM):

<http://www.forscom.army.mil>

### Pay and Finance:

#### OCAR Pay Support Center:

<http://www.army.mil/usr/psc/ocarhp.htm>  
(Links to important USAR pay information)

#### USAR Enlistment/Reenlistment Bonuses and Incentives

<http://www.army.mil/usr/benefits/benefits5.htm>

#### Army Financial Operations:

<http://www.asafm.army.mil/financial.htm>

**Editor's Note:** Army Aviation is seeking good-news announcements of aviation-related professionals who are on the move. If you or your organization have an upcoming change of leadership (at the battalion or squadron level, or higher for MTOE and TDA units), please forward the information to Barbara Ross, care of the AAAA National Office.



The Secretary of Defense will announce at 1330, 29 June 1999 in Washington, DC, that the President has nominated:

Lieutenant General John M. Pickler, United States Army, for reappointment to the grade of lieutenant general and assignment as Director of the Army Staff, Washington, DC. Since October 1997, he has served as the Chief of Staff, United States Army Forces Command, Fort McPherson, Georgia.

Lieutenant General Larry R. Jordan, United States Army, for reappointment to the grade of lieutenant general and assignment as Deputy Commanding General, United States Army Europe and Seventh Army, Germany. Since November 1997, he has served as The Inspector General, Office of the Secretary of the Army, Washington, DC.

Major General Michael W. Ackerman, United States Army, for appointment to the grade of lieutenant general and assignment as The Inspector General, Office of the Secretary of the Army, Washington, DC. Since May 1998, he has served as Deputy The Inspector General, Office of the Secretary of the Army, Washington, DC.

Major General Daniel G. Brown, United States Army, for appointment to the grade of lieutenant general and Assignment as Deputy Commander in Chief/Chief of Staff, United States Transportation Command, Scott Air Force Base, Illinois. Since August 1997, he has served as Commanding General, United States Army Combined Arms Support Command and Fort Lee, Fort Lee, Virginia.

Major General Larry R. Ellis, United States Army, for appointment to the grade of lieutenant general and assignment as Deputy Chief of Staff for Operations and Plans, United States Army, Washington, DC. Since May 1997, he has served as Commanding General, 1st Armored Division, United States Army Europe and Seventh Army, Germany.

Major General James T. Hill, United States Army, for appointment to the grade of lieutenant general and assignment as Commanding General, I Corps and Fort Lewis, Fort Lewis, Washington. Since June 1997, he has served as Commanding General, 25th Infantry Division (Light), Schofield Barracks, Hawaii.

Major General Lawson W. Magruder III, United States Army, for appointment to the grade of lieutenant general and assignment as Deputy Commanding General/Chief of Staff, United States Army Forces Command, Fort McPherson, Georgia. Since April 1999, he has served as Deputy Chief of Staff for Operations, United States Army Forces Command, Fort McPherson, Georgia.

Major General Johnny M. Riggs, United States Army, for appointment to the grade of lieutenant general and assignment as Commanding General, First United States Army, Fort Gillem, Georgia. Since September 1997, he has served as Commanding General, 7th Infantry Division (Light) and Fort Carson, Fort Carson, Colorado.

The Chief of Staff, Army also announces the assignment of the following general officers:

Major General Julian H. Burns, Jr., from Deputy Commanding General, V Corps, United States Army Europe and Seventh Army, Germany to Deputy Chief of Staff for Operations, United States Army Forces Command, Fort McPherson, Georgia with a report date to be determined.

Major General Reginald G. Clemons, from Deputy Commanding General, Allied Land Forces Southeastern Europe, Turkey to

Deputy Commanding General, V Corps, United States Army Europe and Seventh Army, Germany with a report date to be determined.

Brigadier General Zannie O. Smith, from Chief of Staff, I Corps and Fort Lewis, Washington to Deputy Commanding General, Allied Land Forces Southeastern Europe, Turkey with a report date to be determined.

#### Lieutenant Colonel Army Competitive Category Promotion Board Results for FY99

SEQ#	NAME	BR	145	Ludowese, Jeryl C.	AV
110	Anest, Peri A.	AV	331	Lynch, Robin D.	AV
674	Angevine, John E.	AV	451	Mackin, Patrick H.	AV
368	Arp, James W.	AV	56	Maher, Joseph E.	AV
+1043	Ball, Daniel L.	AV	+1008	Marye, James M.	AV
126	Ballew, Robert S.	AV	336	Mason, Reginald P.	AV
624	Baxter, Robert M.	AV	10	Mays, Timothy C.	AV
441	Beckmann, James P.	AV	579	McConnell, G. Scott	AV
452	Bianchi, John E.	AV	295	McDonnell, Thomas J.	AC
863	Bird, Craig H.	AV	753	McMahon, Jeanette M.	AV
611	Blackburn, David M.	AV	889	Modica, Daniel G.	AV
239	Braley, William W.	AV	424	Mooneyham, Paul A.	AV
+1019	Bricker, Paul W.	AV	179	Moran, David D.	AV
409	Brown, Otis L.	AV	375	Mowery, Jeffrey L.	AV
634	Bryant, Thomas H.	AC	77	O'Hara, Patrick H.	AV
818	Bullinger, James R.*	AV	843	Owens, Calvin J.	AV
920	Calhoun, Victoria A.	AV	678	Palmer, David A.	AV
552	Carlsen, Calvin T.	AV	319	Parks, Wayne A.	AV
39	Carney, Steven P.	AV	338	Phares, David W.	AV
633	Chapman, James R.	AV	566	Radovich, Rory R.	AV
265	Clawson, Michael N.	AV	607	Reed, James M.	AV
160	Crabb, Jeffrey A.	AC	734	Rice, William T.	AV
325	Crea, Thomas M.	AV	80	Robinson, Mark W.	AV
571	Dumoulin, John E.	AV	358	Rutherford, Scott D.	AV
+1031	Dunaway, Joe D.	AV	831	Sabb, Anthony	AV
702	Effinger, Robert C.	AV	97	Sanders, Judy S.	AV
218	Egbert, Jerry L.	AV	277	Schrote, James D.	AV
499	Eichelberger, Randall	AV	484	Schulz, Robert R.	AC
+ 990	Farrington, Jessie	AV	713	Schwanenfeldt, Kent	AC
+1039	Fedor, Kurt W.	AV	147	Sefren, Laurence J.	AV
434	Ferguson, Howard R.	AV	896	Sewall, Robert D.	AV
346	Fields, Charles F.	AV	204	Shelton, Mark L.	AV
561	Flewelling, Raymond	AV	393	Shepherd, Michael D.	AV
924	Fox, Roy W.	AV	290	Shiftlett, Michael	AV
378	Franks, Eldon E.	AV	978	Shufflebarger, Newman	AC
510	Galvin, James J.	AV	278	Sims, Ricky R.	AV
+1003	Gehler, Christopher	AV	496	Smith, Bruce G.	AV
508	Gillette, Mark W.	AV	392	Smith, Rodney	AV
67	Gregory, Michael T.	AV	669	Souza, Mark K.	AV
700	Gutierrez, Eduardo	AV	629	St. Jean, Albert C.	AV
621	Habel, Douglas P.	AV	975	Stull, Alan M.	AV
686	Hackle, Donald L.	AV	659	Thoma, Brian L.	AV
119	Handal, Shucra A.	AV	835	Thompson, Scott B.	AV
952	Hansen, John T.	AV	620	Trang, Jeffrey A.	AC
112	Harrison, John C.	AV	219	Trankovich, John J.	AV
638	Hein, Robert F.	AV	677	Trouve, Christopher	AV
565	Holley, Ross E.	AV	+1055	Welch, Robert P.	AV
851	James, John E.	AV	550	Whealock, Douglas H.	AC
979	Jones, Mark T.	AV	+ 995	Wild, Douglas A.	AV
32	Jumper, Charles A.	AV	228	Wilson, John M.	AC
274	Kelley, Yvette J.	AV	540	Wright, John S.	AC
306	Kirkland, Benjamin	AV	558	Zegler, Scott D.	AV
954	Kuchinski, William	AV			
35	Larrabee, Mark E.	AC			
809	Leary, William J.	AV			
258	Lisenbee, Donald G.	AV			

\* Below the Zone

\* AAAA Member

**General Officer Promotions**

Chaplain (Maj. Gen.) Gaylord T. Gunhus, U.S. Army, was promoted to his current rank effective July 1, 1999. Since June 1999 he has been the Army's chief of chaplains, in Washington, D.C.

Maj. Gen. Albert J. Madora, USA, was promoted to his current rank effective July 1, 1999. Since October 1998 he has been the commanding general of the U.S. Army Operational Test and Evaluation Command in Alexandria, Va.

Brig. Gen. James W. Parker, USA, was promoted to his current rank effective July 1, 1999. Since June 1998 he has been the commander of Special Operations Command (South), United States Southern Command, in Puerto Rico.

Brig. Gen. Jeanette K. Edmunds, USA, was promoted to her current rank effective July 1, 1999. Since June 1999, she has been the commanding general of 13th Corps Support Command at Fort Hood, Texas.

Col. Raymond T. Odierno, USA, was promoted to brigadier general effective July 1, 1999. Since August 1998 he has been the assistant division commander (support), for the 1st Armored Division in Germany.

Col. John M. Brown III, USA, was promoted to brigadier general effective July 1, 1999. Since August 1997 he has been the chief of staff of the National Defense University in Washington, D.C.

Chaplain (Col.) David H. Hicks, USA, was promoted to brigadier general effective July 1, 1999. Since July 1997 he has been the chaplain for U.S. Army, Europe, and Seventh Army in Heidelberg, Germany.

**General Officer Retirements**

Maj. Gen. Donald W. Shea, USA, will be placed on the retired list in his current grade, retiring after serving more than 32 years. Since September 1994 he has been the Army's chief of chaplains in Washington, D.C.

Maj. Gen. Morris J. Boyd, USA, will be placed on the retired list in his current grade after serving for more than 34 years. Since July 1997 he has been the deputy commanding general of III Corps and Fort Hood, Texas.

Brig. Gen. Charles M. Burke, USA, will be placed on the retired list in his current grade after serving for more than 32 years. Since October 1998 he has been the commander of the U.S. Army Safety Center at Fort Rucker, Ala.

Brig. Gen. Clayton E. Melton, USA, will be placed on the retired list in his current grade after serving for more than 33 years. Since August 1997 he has been the director of the Human Resources Directorate in the Army's Office of the Deputy Chief of Staff for Personnel in Washington, D.C.

*People on the Move cont'd. on pg. 98*

advanced training on the AH-64 Apache, the OH-58D Kiowa Warrior and the AH-1 Cobra. Upon the completion of training warrant officers are awarded an additional skill identifier of "E."

Aircraft armament maintenance technicians provide their commands with managers in

ny. The rated aviator armament maintenance technician adds the ability to troubleshoot in flight, a task not available to the non-rated technician. These trained officers immediately contribute to the unit's ability to accomplish the mission.

A competent team consisting of an aircraft armament technician, a quality control NCOIC and armament personnel not only increases a unit's operational readiness posture, but is irreplaceable during gunnery as well. Without operational armament systems, the pilots would have an impossible task of putting the ordnance on target. The aircraft armament technicians are the head coaches of the armament teams and know where to focus the maintenance efforts — their decisions can make the difference between success and failure. The aircraft armament technicians contribute in many different areas:

- They coordinate face to face with production control or the AVIM shop officer and track the NMCS parts because of their supply knowledge.
- They troubleshoot a system problem that has stumped the rest of the armament section.
- They rely on their experience to brief senior officers about armament systems.

armament shop maintenance. The school does not produce experts; it provides instead the tools officers need to become experts. With the advanced systems employed on today's attack aircraft, it takes years to achieve this level of expertise. There is no substitute for field experience. However, with the training warrant officers receive during AAMTC they can immediately make an impact on armament readiness.

Aircraft armament maintenance technicians can integrate into the armament maintenance operation either at the AVIM or AVUM levels or a flight compa-



*CWO 3 Frank Howard (Ret.) is a former project officer for the U.S. Army Aviation Logistics School, Fort Eustis, Va.*

# ARMY AVIATION

## BOOK REVIEW

### Army Aviation in Vietnam, 1961-1963

An Illustrated History of Unit Insignia, Aircraft Camouflage and Markings

By Ralph B. Young

124 pages The Huey Company

Reviewed by  
Maj. Gen. Ben L. Harrison (Ret.)

Scanning this heavy, glossy book, one is struck by the large number of photographs, and by their clarity, quality and variety. The photos and art work are so fascinating, it is difficult to get into the text without first spending considerable time just looking.

The author provides a brief history of the evolution of the Republic of Vietnam from the Japanese occupation during World War II through the Indochina war and the establishment of the U.S. advisory effort. The pivotal Jan. 2, 1963, battle of Ap Bac coverage is well done, comprehensive and insightful.

About half of the book (65 pages) is devoted to the 16 aviation units in Vietnam from 1961 to 1963, with "brief, unofficial unit histories, unit commanders and personalities and mention of unit traditions, mottoes, nicknames and accomplishments." The author provides extensive detail concerning unit markings and paint in colors, hue, value and chroma (perhaps more than the ordinary reader wants to know, though I did learn a new word as "conspicuity" stripes are discussed).

The author, not an Army aviator, launches this book as "the first volume in a planned series intended to be the definitive, illustrated history of each and every Army aviation unit in Vietnam." He has done very well indeed. This is a splendid, enjoyable book and a significant contribution to the history and lore of the early escalation to war and U.S. involvement in Vietnam. Though Vietnam was known as the "Helicopter War," this book makes clear that the first few years of the conflict could be more accurately termed the "Transportation Corps Aviation War." The air crews and maintenance and support troops receive some long overdue recognition.

I look forward to the next volume, covering the period from 1963 to 1966. There will be many, many more aviation units to cover and much more narrative of warfighting necessary. The author is seeking any photographs, unit histories, information or memorabilia relating to Army aviation in Vietnam from 1961 to 1973 that will add to this series. Send the materials to him at P.O. Box 625, Ramsey, NJ 07446-0625. He states that all originals will be returned.

A hard cover edition limited to 500 copies signed by author Ralph B. Young and Col. Kenneth D. Mertel, Ret., commander, 45th Transportation Battalion, is available. A softcover edition is also available. See the ARMY AVIATION Book Store on page 99 of this issue.

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Are you a former AAAA member?  Yes  No

If yes, what year did you join? \_\_\_\_\_

Chapter Affiliation Preferred \_\_\_\_\_

Print Name of Recruiter \_\_\_\_\_

# RECORD 95 SCHOLARSHIPS MADE IN 1999

Brig. Gen. Stu Gerald, Ret.

President, AAAA Scholarship Foundation, Inc.

The AAAA Scholarship Foundation, Inc. (AAAASF) has just awarded \$175,000 to a record number of academically outstanding students. Enlisted, Warrant Officer, and Company Grade Officer relatives received one third of the available awards with Field Grade receiving 45%, and DAC/SES and civilian industry accounting for the remainder of the 95 scholarships and no-interest loans. In fact, one warrant officer, CWO 5 James F. Wise, had two daughters and a son win awards this year!

Don't forget, we now require at least one full year of AAAA membership before application for these awards. If you have an outstanding student in mind, make sure their parents join AAAA by 1 May 2000 in order to take part in the Fall 2001 program. FYI - This year's awardees averaged 9.5 years of AAAA Membership.

Finally, urge your local AAAA Chapter members to start their own Chapter Matching Fund Scholarship. Just raise \$1000 over the course of the year and it will be matched by the AAAA for one award of \$2,000 or two awards of \$1,000 - the chapter's choice. In fact, if you are under 150 members in your chapter, you only have to raise \$500 during the year to be matched by the AAAA. This is only \$42.00 per month. Any Chapter can do this! There are even Corporate Matching Fund scholarships available. Does your company participate?

Please take the time to review these outstanding students on the next few pages and think about making a contribution yourself to this program either directly or through the CFC. Because the AAAA picks up all the administrative and overhead costs of our Foundation, **100% of your donations goes directly to awards** or to principal in the scholarship accounts. I am not aware of any other charity that can make this claim.

Stu Gerald  
Brigadier General, Retired  
President AAAASF

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Call 800 523-7666 to apply!



**AAAA National GEN Hamilton H. Howze Memorial Scholarship - \$11,500 (\$2,875 a year for four years)**  
Jeremiah C. Haswell, son of Mrs. Shay Collins, Arton, AL - University of Alabama at Birmingham.



**GEN Frank S. Besson, Jr. Memorial Scholarship - \$10,000 (\$2,500 a year for four years)** Brian E. Foxx, son of LTC Ronnie L. Foxx, Fayetteville, NC - University of North Carolina at Chapel Hill.



**LTG William B. Bunker Memorial Scholarship - \$10,000 (\$2,500 a year for four years)** Chadwick H. Morehead, son of LTC Edwin C. Morehead, Woodbridge, VA - Clemson University.



**AAAA National BG Robert M. Leich Memorial Scholarship - \$5,000 (\$1,250 a year for four years)** Melissa A. Hammerle, daughter of COL Robert A. Hammerle, Colorado Springs, CO - Dartmouth College.



**AAAA National BG O. Glenn Goodhand Memorial Scholarship - \$5,000 (\$1,250 a year for four years)**  
Catherine E. Piotrowski, sister of CPT Robert C. Piotrowski, Fayetteville, NC - University of Michigan.



**AAAA National Bryce Wilson Memorial Scholarship - \$5,000 (\$1,250 a year for four years)** Laura E. Tucker, daughter of COL Donald G. Tucker, Newport News, VA - University of Virginia.



**AAAA National Scholarship - \$4,000 (\$1,000 a year for four years)** Christopher J. Huebner, son of LTC Stephen J. Huebner, Ret., Winston-Salem, NC - University of Notre Dame.



**Monmouth Chapter (Hogelin/O'Donnell Memorial) Matching Scholarship - \$4,000 (\$1,000 a year for four years)** Mark C. Johnson, son of Mr. Douglas C. Johnson, Ocean, NJ - Johns Hopkins University.



**North Texas Chapter Matching Scholarship - \$4,000 (\$1,000 a year for four years)** Melissa A. Durham, daughter of Mr. William H. Durham, Mansfield, TX - University of Kentucky.



**Tennessee Valley Chapter (Colleen Hipp) Matching Scholarship - \$4,000 (\$1,000 a year for four years)** Eric C. Jerauld, son of COL Gary D. Jerauld, St. Charles, MO - The Catholic University of America.



**Central Florida Chapter Matching Scholarship - \$3,000 (\$1,500 a year for two years)** Heather M. Wiseman, daughter of CW5 Sandra L. Beebe, Ret., Winter Springs, FL - University of Florida.



**Monmouth Chapter (B. Howard Dean/Ken K. Kelly) Matching Scholarship - \$3,000 (\$1,500 a year for two years)** Daniel W. Carl, son of Mr. William H. Carl, Lakewood, NJ - Columbia International University.



**Helen Cribbins Memorial Scholarship - \$3,000 (\$1,500 a year for two years)** Jennifer L. Hart, daughter of LTC Larry A. Hart, Columbus, OH - Swarthmore College.



**Joseph P. Cribbins Scholarship - \$2,500 (\$1,250 a year for two years)** Matthew J. Sergi, son of SSG Efrain Hernandez, Hartsdale, NY - New York University.



**Central Florida Chapter Matching Scholarship - \$2,000 (\$1,000 a year for two years)** Natalie C. Glover, daughter of MAJ Larry W. Glover, Ret., Casselberry, FL - The Florida State University.



**Flying Tigers Chapter Matching Scholarship - \$2,000 (\$1,000 a year for two years)** Shannan A. McDonald, daughter of CW4 Thomas J. McDonald III, Fort Mitchell, KY - University of Louisville.



**Donald F. Luce**  
Corporate Matching Scholarship - \$2,000 (\$1,000 a year for two years) Mary Anne Woytus, St. Peters, MO - University of Missouri-St. Louis.



**Monmouth Chapter**  
Matching Scholarship - \$2,000 (\$1,000 a year for two years) Kristin M. Gill, daughter of Mr. William M. Gill, Eatontown, NJ - Montclair State University.



**Monmouth Chapter**  
(Kahl Winter)  
Matching Scholarship - \$2,000 (\$1,000 a year for two years) Shawn G. Hartwig, son of Ms. Karen L. Hartwig, Verona, NJ - University of North Carolina at Charlotte.



**Lindbergh Chapter**  
Matching Scholarship - \$1,000 (\$1,000 for one year) Nissa A. Monrad, daughter of LTC Glenn A. Monrad, Ret., Chesterfield, MO - Syracuse University.



**Lindbergh Chapter**  
Matching Scholarship - \$1,000 (\$1,000 for one year) Megan M. Rosenberg, daughter of Mr. Ken S. Rosenberg, St. Louis, MO - The College of William & Mary.



**Phantom Corps Chapter** (Coldwell Banker) Matching Scholarship - \$1,000 (\$1,000 for one year) Aaron J. Whatley, son of CW5 Robert J. Whatley, Waco, TX - Baylor University.



**Air Assault Chapter**  
Matching Scholarship - \$1,000 (\$1,000 for one year) Jalecia M. Griffin, spouse of 1LT Roger M. Griffin, Jr., Clarksville, TN - Southern Illinois University.



**Air Assault Chapter**  
Matching Scholarship - \$1,000 (\$1,000 for one year) Jessica L. Hubbard, daughter of COL Samuel J. Hubbard, Jr. Fort Campbell, KY - University of Virginia.



**Aviation Center Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Andrea L. Pawlak, daughter of CW4 Richard C. Pawlak, Ret., Enterprise, AL - Auburn University.



**Aviation Center Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) John R. Gore, son of COL R. Lee Gore, Fort Rucker, AL - Auburn University.



**Aviation Center Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Christine R. Littlejohn, daughter of COL Edward H. Littlejohn III, Newton, AL - Oral Roberts University.



**Cedar Rapids Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Margaret C. McArthur, daughter of COL William S. McArthur, Houston, TX - Texas Christian University.



**Colonial Virginia Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Lindsay D. Palmer, daughter of LTC Clinton E. Palmer, Ret., Williamsburg, VA - University of Virginia.



**Colonial Virginia Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Brian C. Liivak, son of LTC Heldur Liivak, Hampton, VA - Virginia Tech.



**Colonial Virginia Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Brandi A. Rose, daughter of LTC Michael S. Rose, Savannah, GA - Armstrong Atlantic State University.



**Colonial Virginia Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Daryl E. Perry II, son of SFC Daryl E. Perry, Ret., Newport News, VA - Virginia Polytechnic Institute.



**Colonial Virginia Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Kevin A. Birocco, son of Mr. Gene A. Birocco, Williamsburg, VA - Virginia Tech.



**Greater Atlanta Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Mary E. Wynne, daughter of 1SG Tony M. Wynne, Ret., Thomaston, GA - Springfield College.



**Monmouth Chapter** (Applett/Gobel Memorial) Matching Scholarship - \$1,000 (\$1,000 for one year) Lea M. Alford, spouse of CW3 Michael T. Alford, Framingham, MA - University of Chicago.



**Tennessee Valley Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Mary K. Harrison, daughter of COL Thomas M. Harrison, Huntsville, AL - Oglethorpe University.



**Washington-Potomac Chapter** (Robert F. Molinelli) Matching Scholarship - \$1,000 (\$1,000 for one year) Melissa M. Manuel, daughter of CW4 William K. Manuel, Laurel, MD - Mercer University.



**Iron Mike Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Elizabeth A. Keiffer, daughter of CW3 Robert P. Keiffer, Germany - The Ohio State University.



**Iron Mike Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Joseph A. Wise, son of CW5 James F. Wise, Fayetteville, NC - Purdue University.



**Iron Mike Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Danielle M. Wise, daughter of CW5 James F. Wise, Fayetteville, NC - University of North Carolina at Chapel Hill.



**Iron Mike Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Deidre E. Wise, daughter of CW5 James F. Wise, Fayetteville, NC - Boise State University.



**North Country Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Kathleen E. Dungan, spouse of 1LT Che Peter Dungan, Watertown, NY - Jefferson Community College.



**North Country Chapter** Matching Scholarship - \$1,000 (\$1,000 for one year) Mary A. Perez, spouse of 1LT Jose A. Perez, Watertown, NY - State University of New York.



**Jane & Wayne Phillips Memorial Scholarship** - \$1,000 (\$1,000 for one year) Daniel C. Lynds, son of SGT John J. McDonagh, Cirrus Heights, CA - California State University at Long Beach.



**CW3 Stephen A. Hansen Memorial Scholarship - \$1,000 (\$1,000 for one year)**  
Alyssa M. Bridge, daughter of LTC Donald W. Bridge, Jr., Richmond Hill, GA - Boston College.



**Army Aviation Publications, Inc., Corporate Matching Scholarship - \$1,000 (\$1,000 for one year)**  
Benjamin J. Page, son of COL James A. Page, Burke, VA - University of Tennessee.



**DynCorp Corporate Matching Scholarship - \$1,000 (\$1,000 for one year)**  
Nichole Hedglin, daughter of LTC Thomas D. Hedglin, Ret., Queenbury, NY - State University of New York, University at Albany.



**Raytheon Corporate Matching Scholarship - \$1,000 (\$1,000 for one year)**  
Amanda M. Hedges, daughter of CW4 John R. Hedges, Ret., Cornwall on Hudson, NY - University of Delaware.



**Igor Sikorsky Memorial Corporate Matching Scholarship - \$1,000 (\$1,000 for one year)**  
Lisa M. Oliver, daughter of COL Randall G. Oliver, Ret., Milford, CT - Virginia Polytechnic Institute and State University.



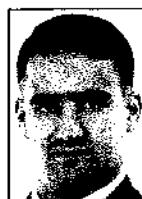
**Westar Corporate Matching Scholarship - \$1,000 (\$1,000 for one year)**  
Chad T. Hoffman, son of MAJ Floyd T. Hoffman, Ret., O'Fallon, MO - Anderson University.



**AAAA Spouse Scholarship - \$1,000 (\$1,000 for one year)**  
Teresa F. Ramsey, spouse of CW5 William H. Ramsey, Enterprise, AL - Troy State University-Dothan.



**AAAA Spouse Scholarship - \$1,000 (\$1,000 for one year)**  
Julianne B. Shenk, spouse of MAJ Michael L. Shenk, West Point, NY - St. Thomas Aquinas College.



**AAAA Company Grade Officer Member Scholarship - \$1,000 (\$1,000 for one year)**  
CPT Scott E. Mabel, Burlington, MA - The University of Georgia.



**AAAA National Scholarship - \$1,000 (\$1,000 for one year)**  
Jessica Petty, daughter of LTC Frank S. Petty, Beaver Creek, OH - Brigham Young University.



**AAAA Warrant Officer Member Scholarship - \$1,000 (\$1,000 for one year)**  
CW2 Jack V. Rogers II, Ret., Dallas, TX - Southern Methodist University.



**AAAA Warrant Officer Member Scholarship - \$1,000 (\$1,000 for one year)**  
WO1 John D. Bourdeaux, Janesville, WI - Cedarville College.



**AAAA Enlisted Member Scholarship - \$1,000 (\$1,000 for one year)**  
MSG Tanya R. Whitney, Dale City, VA - Embry-Riddle Aeronautical University.



**AAAA Enlisted Member Scholarship - \$1,000 (\$1,000 for one year)**  
SPC John W. James, Logan, UT - Utah State University.



**AAAA National Scholarship - \$1,000 (\$1,000 for one year)**  
Lee W. Berry, son of LTC Lee W. Berry III, Ret., Collierville, TN - Vanderbilt University.



**AAAA National Scholarship - \$1,000 (\$1,000 for one year)**  
John W. Noyes, son of COL Nathan W. Noyes, Fort Hood, TX - Brigham Young University.



**AAAA National MG John L. Klingenhagen Scholarship - \$1,000 (\$1,000 for one year)**  
John M. Chappell, son of Mr. George W. Chappell, Belton, TX - Texas A & M University.



**AAAA National MAJ William E. Adams Scholarship - \$1,000 (\$1,000 for one year)**  
Sarah M. Ingalsbe, daughter of LTC Peter V. Ingalsbe, Farmington, NY - Rochester Institute of Technology.



**AAAA National MG Patrick H. Brady Scholarship - \$1,000 (\$1,000 for one year)**  
Kristen N. Thomas, daughter of LTC Kelly J. Thomas, Wahiawa, HI - Campbell University.



**AAAA National CW3 Frederick E. Ferguson Scholarship - \$1,000 (\$1,000 for one year)**  
Lindsay M. Ferrell, daughter of BG Stephen J. Ferrell, Colorado Springs, CO - Baker University.



**AAAA National MSG Gary I. Gordon & SFC Randall D. Shughart Scholarship - \$1,000 (\$1,000 for one year)**  
Ryan J. Schloesser, son of COL Jeffrey J. Schloesser, Germany - The College of William & Mary.



**AAAA National PFC Garfield M. Langhorn Scholarship - \$1,000 (\$1,000 for one year)**  
Ashley E. Gass, daughter of LTC Gregory P. Gass, Fort Campbell, KY - The University of Tennessee.



**AAAA National SPC4 Joseph G. LaPointe Scholarship - \$1,000 (\$1,000 for one year)**  
Crystal R. Sliwicki, daughter of MAJ Ralph M. Sliwicki, Fort Campbell, KY - Austin Peay State University.



**AAAA National CW3 Michael J. Novosel Scholarship - \$1,000 (\$1,000 for one year)**  
Andrena M. Kardos, daughter of CW3 Stephan A. Kardos, Enterprise, AL - Auburn University.



**AAAA National SFC Louis R. Rocco Scholarship - \$1,000 (\$1,000 for one year)**  
Adam W. Dormuth, son of MAJ James M. Dormuth, Ret., Birmingham, AL - Auburn University.



**AAAA National SP4 Gary G. Wetzel Scholarship - \$1,000 (\$1,000 for one year)**  
Lindsey M. Kraatz, daughter of LTC Timothy A. Kraatz, Ret., Huntsville, AL - Eckerd College.



**AAAA National SFC Rodney J. T. Yano Scholarship - \$1,000 (\$1,000 for one year)**  
Heinz H. Leigh, son of LTC Ralph G. Leigh, Ret., Ironton, MO - University of Missouri.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Pamela R. Horn, daughter of Mr. Charles I. Horn, St. Louis, MO - St. Louis University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Krista A. Myers, daughter of Mr. Richard J. Myers, Media, PA - University of Delaware.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Nicholas C. Navarro, son of LCDR Mark E. Navarro, San Antonio, TX - Texas A & M University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Jaclyn N. Inman, daughter of LTC Michael T. Inman, Lexington, KY - University of Kentucky.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
CDT Jeremy L. Sauer, Boise, ID - Boise State University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Teresa M. Rini, daughter of COL Thomas J. Rini, Korea - Boston College.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Jennifer L. Farris, daughter of SFC Everett L. Frye, Ret., Enterprise, AL - University of South Alabama.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Kelly M. Newsome, daughter of COL Charles H. Davis, Valrico, FL - University of Maryland, College Park.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Anna L. Matusiewicz, daughter of LTC Daniel A. Matusiewicz, Ret., Jackson, MS - University of Mississippi.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Angela A. Noyola, daughter of Mr. Orlando Noyola, Corpus Christi, TX - Texas A & M University-Corpus Christi.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Sienna L. Moran, daughter of CPT Stephen R. Moran, Ret., Huntington, NY - Drew University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
SPC Reiko K. Peterson, Ypsilanti, MI - Eastern Michigan University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Erin M. Whitaker, daughter of Mr. John M. Whitaker, Florissant, MO - Trinity University.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Leslie E. Redington, daughter of Mr. John V.R. Redington, Enterprise, AL - Rhodes College.



**AAAA Upperclassman Scholarship - \$1,000 (\$1,000 for one year)**  
Nicholas J. Liivak, son of LTC Heldur Liivak, Hampton, VA - Virginia Commonwealth University.



**AAAA Graduate Scholarship - \$1,000 (\$1,000 for one year)**  
Laura B. Strange, spouse of CW4 James A. Strange, Dunwoody, GA - Emory University.



**AAAA Graduate Scholarship - \$1,000 (\$1,000 for one year)**  
Nicole D. Bryan, daughter of CW4 Gary E. Bryan (deceased), Stanley, KS - Drake University.



**AAAA Graduate Scholarship - \$1,000 (\$1,000 for one year)**  
Paulette H. Greek, spouse of LTC Clement E. Greek IV, Oviedo, FL - University of Central Florida.



**AAAA Graduate Scholarship - \$1,000 (\$1,000 for one year)**  
Nancy E. Corcoran, spouse of CPT James M. Corcoran, New Orleans, LA - Southern University of New Orleans.



**AAAA Scholarship Interest Free Loan - \$4,000 (\$1,000 a year for four years)**  
Sarah M. Wold, daughter of CW4 Robert S. Wold, Philadelphia, NY - State University of New York - Buffalo.



**AAAA Scholarship Interest Free Loan - \$4,000 (\$1,000 a year for four years)**  
Jenny M. Bazzetta, daughter of Mr. Jerry M. Bazzetta, St. Louis, MO - St. Louis University.



**AAAA Scholarship Interest Free Loan - \$4,000 (\$1,000 a year for four years)**  
Mark E. Johnson, son of LTC Robert L. Johnson, Fayetteville, GA - University of Georgia.



**AAAA Scholarship Interest Free Loan - \$4,000 (\$1,000 a year for four years)**  
Ashley M. Boyken, daughter of Mr. David E. Boyken, Copperas Cove, TX - Baylor University.



**AAAA Scholarship Interest Free Loan - \$4,000 (\$1,000 a year for four years)**  
Nicole R. Harp, daughter of LTC Royal V. Harp III, Ret., Bowling Green, MO - Southwest Missouri State Univ.

## Congratulations to AAAA Scholarship Recipients

# AAAA NEWS

## New Chapter Officers

**America's First Coast:**  
CWO 2 Brian C. Farrell, VP Renewals.

**Aviation Center:**  
Maj. Gregory L. Cantwell, Treasurer; CWO 2 Kris A. Rogers, VP Programs; Capt. Ron L. Jackson, VP Awards.

**First City Troop:**  
Capt. Harry J. Gobora III, President; 1Lt. Michael J. O'Neill, Sr. Vice President; Sgt. Thomas L. Farley, Secretary; SSgt. Andrew Richard Sullivan, VP Membership Enrollment.

**Monmouth:**  
Mr. Joseph G. Ruggiero, VP Programs; Mr. Peter A. Lawrence, VP USAR; Mr. Kurt M. Kovach, VP Professional Development; Mr. Richard E. Pribyl, VP Professional Development; Lt. Col. Thomas F. McNamara, Ret., VP Government Affairs; Spec. 4 John G. Klubnick, Sr., Ret., VP Community Affairs; Mr. Edward F. Wuysek, Sports Events.

**Morning Calm:**  
Col. Stephen D. Mundt, President.

**Washington/Potomac:**  
Ms. Mary M. Marineau, Treasurer.

## Aces

The following members have been recognized as Aces for their signing up five new members each.

Mr. John H. Bae  
Sfc. Jade L. Beranek  
CWO 2 Brian C. Farrell  
Sgm. Kenneth G. Rich  
Ms. Catherine C. Roache  
Col. John J. Stanko, Jr., Ret.

## New AAAA Order of St. Michael Recipients

Maj. Gen. Emmitt E. Gibson (Gold)  
Gen. Dennis J. Reimer (Gold)  
Col. James A. Kelley (Silver)  
Col. Christopher L. Sargent (Silver)  
Maj. Gen. David W. Gay (Silver)  
John H. Bae (Silver)  
CWO 5 Michael J. Hutson (Silver)  
CSM Hiram L. Clayton (Silver)  
Col. R. Lee Gore (Silver)  
Col. Timothy P. McHale (Silver)  
CWO 4 Daniel H. Mauss (Bronze)  
Maj. William J. Layden (Bronze)  
Maj. David M. Constantine (Bronze)  
CWO 3 Eric E. Rings (Bronze)  
Maj. Robert P. Welch (Bronze)  
Maj. Kevin P. Corcoran (Bronze)  
CWO 4 Ronald J. Mann (Bronze)  
CWO 4 Jeffrey L. Haddock (Bronze)  
1SG Steven A. Gatto (Bronze)  
SFC Thomas R. Miller (Bronze)  
Maj. James F. Mulvihill (Bronze)  
Lt. Col. Roderick A. Bellows (Bronze)  
1SG H. L. Kennedy (Bronze)  
CWO 3 Steven J. Roberts (Bronze)  
1SG Francisco J. Jimenez (Bronze)  
CWO 4 Richard D. Allred (Bronze)  
1SG Timothy M. Sullivan (Bronze)  
SFC Alvin G. Beal (Bronze)  
MSG Stephen W. Moody (Bronze)  
Lt. Col. James Fred Edwards (Bronze)  
CWO 5 Norman Stewart (Bronze)

Col. Edwin J. Den Beste (Bronze)

CWO 4 William M. Kelly (Bronze)

SFC Darrell G. Milton (Bronze)

Maj. Dawn M. Eisert (Bronze)

SFC Robert M. Waczyk (Bronze)

Maj. Ronald K. Taylor, Jr. (Bronze)

Maj. Bernard B. Banks (Bronze)

Maj. Joie Starr (Bronze)

Lt. Col. David G. Wildes (Bronze)

Maj. Joseph F. Clegg (Bronze)

CWO 4 William Vazquez-Aradas (Bronze)

CWO 4 James P. Mallory (Bronze)

CWO 4 Kenneth D. Collier (Bronze)

CWO 4 Steven E. Bowyer (Bronze)

Brig. Gen. Raymond D. Barrett, Jr. (Bronze)

Maj. Bruce J. Gorski (Bronze)

## New AAAA Life Members

CWO 5 Robert J. Hawkins, Ret.

Capt. Michael S. Kellogg

CWO 2 John Roy Masters

Capt. Vernon H. Miles

Capt. Ronald G. Myers

Col. Richard L. Noel, Ret.

Col. Zachary Patterson

Mr. Robert X. Tansey

Maj. Peter A. Webb, Jr.

## In Memoriam

SFC Mark A. Jacobson

Mrs. Isabel Klingenhagen

Mrs. Jaye Maddox

Capt. Jennifer J. Odom

Mr. Edward C. Pingleton

Mr. Michael S. Saboe



## Army Recognizes DynCorp's Cribbins and Post

DynCorp Special Assistant for Safety Joseph P. Cribbins and Maj. Gen. Alton G. Post (Ret.), a former DynCorp employee, were honored with the Distinguished Order of Saint Christopher Medal for Outstanding Career Achievement in the U.S. Army Transportation Corps. The award, presented by Brig. Gen. Gilbert S. Harper, recognized Cribbins and Post for their significant contributions to Army aviation and transportation from the 1940s to the 1990s. Cribbins and Post are the first recipients of the Saint Christopher Medal. Pictured (left to right) are Harper, Post, Cribbins and DynCorp President and CEO Paul Lombardi.



## AVIATION CENTER CHAPTER

Col. R. Lee Gore (center), president of the AAAA's Aviation Center Chapter, recently awarded 1999 scholarships totaling \$19,500 to (from left) Jeremiah Haswell, AAAA National General Hamilton Howze Memorial Scholarship of \$2,875 per year for four years, or a total of \$11,500; John R. Gore, Aviation Center Chapter Matching Scholarship of \$1,000; Teresa Ramsey, AAAA Spouse Scholarship of \$1,000; Andrea Pawlak, Aviation Center Chapter Matching Scholarship of \$1,000; and Andrena Kardos, the CW3 Michael Novoseil Scholarship of \$1,000. Haswell attends the University of Alabama; Gore, Pawlak and Kardos are studying at Auburn University of Alabama; and Ramsey is a student at Troy State University. Other scholarship recipients not shown are Leslie Redington, AAAA Upperclassman Scholarship of \$1,000, Rhodes College; Christine Littlejohn, Aviation Center Chapter Matching Scholarship of \$1,000, Oral Roberts University; Jennifer Farris, Upperclassman Scholarship of \$1,000, University of South Alabama; and Capt. Scott Mabel, AAAA Company Grade Officer Scholarship of \$1,000, University of Georgia.

# AAAAA NEWS

## NEW MEMBERS

AIR ASSAULT CHAPTER FORT CAMPBELL, KY	2LT Roger D. Furbee WO1 Mark E. Gardner WO1 Paul G. Gelner 2LT Miguel A. Gonzalez WO1 Thomas R. Grajkowski WO1 Brendon D. Graves WO1 Brian A. Green WO1 Wayne B. Grimes WO1 Kenneth L. Gunter Ms. Beth F. Hall 2LT L. Craig Holsey 2LT Eric E. Halstrom WO1 Roy L. Harper WO1 Stephen E. Harper 2LT Matthew T. Hassloch WO1 Jeremy D. Hatt WO1 Robert D. Hedgepath 2LT Daniel P. Henkle WO1 Gabriel M. Hohol 2LT Joshua C. Hudgens WO1 Mark A. Jernigan WO1 Daniel E. Johnson WO1 Sonja M. Johnson WO1 Justin D. Johnston CW2 Sean D. Jones 2LT Adam R. Keown WO1 William D. Kilgore, Jr. WO1 Eric L. Kniemen MAJ Gary J. Kotouch WO1 Robert W. Kramer II WO1 Justin N. Larson 2LT Dzanh K. Le 2LT Matthew J. Levantovich WO1 Dana B. Love WO1 Robert H.E. Lussier, Jr. 2LT Jeffrey G. Lynes CPT Kelly G. McDonald 2LT David Lee Magness II WO1 Allen E. Mays Jr. WO1 Shawn T. McCullough 2LT Jeremy M. McKenzie 2LT Danielle R. Medaglia WO1 James M. Menidell WO1 Matthew R. Middleton 2LT Mary K. Miller 2LT Trevor S. Miller CW5 Ronald C. Moring 2LT John A. Morris 2LT Cedil C. Nix WO1 John M. O'Mary 1LT Kimberly A. O'Neal 1LT Peter Orabona 2LT Jimmy L. Perez 2LT David R. Perry 2LT Dennis C. Philavavase WO1 Bruce W. Plummer 2LT Carl A. Preciado WO1 Jeffrey A. Pudl 2LT Mark A. Raush WO1 Bobby L. Remington 2LT Jose L. Reyes WO1 Trevor E. Robinson WO1 Marco A. Rodriguez WO1 Benjamin J. Ronk 2LT Timmy L. Rose 2LT William H. Rudder CWO Harley J. Ryan, Ret. WO1 Scott A. Saboe WO1 John N. Schneider WO1 Ryan J. Schuck	WO1 Peter M. Schultz 2LT Michael D. Shaner 2LT Travis D. Shaver WO1 Jason L. Shelton WO1 Erica J. Smith WO1 Jason A. Smith 2LT Kurt K. Southworth 2LT Joseph B. Stanyer WO1 Tara M. Sykes 2LT Ricky A. Thomas WO1 James E. Thompson WO1 Scott J. VanHoyen WO1 Kenneth L. Walton CW4 Susan R. Wheeler Mr. Dennis C. Wightman 1LT James Wills 2LT Brian G. Wood 2LT Mary S. Wright 2LT Matthew C. Yengst WO1 Brian T. Young WO1 Ryan H. Young 2LT Jana D. Yourczek	FIRST CITY TROOP CHAPTER PHILADELPHIA, PA	MORNING CALM CHAPTER SEOUL, KOREA	
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The AAAA Scholarship Foundation, Inc. (AAAASF) is now part of the Combined Federal Campaign (CFC), a workplace charitable fund drive conducted by the U.S. Government for all federal employees. It is the single largest workplace fund drive in the country, raising approximately \$195M in pledges annually.

In 1999, the AAAASF received a total of 152 applications and awarded 90 grants and five loans for a total of \$175,000. These awards are made on the basis of academic merit only and the applications are scrubbed to remove all references to the names and ranks of their AAAA member relative.

Don't forget, all overhead costs are borne by the AAAA so that 100% of your contribution (net CFC charges) go directly to AAAA Scholarship Foundation, Inc. awards. Help us reward more of these outstanding students with larger awards.

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## Combined Federal Campaign

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## LOST & FOUND

One pair of prescription sunglasses were left at the Raytheon exhibit booth at the AAAA Annual Convention last month in Nashville, TN.

Contact the AAAA National Office  
(203) 226-8184.



## FLIGHT LINES™ ARMY AVIATION MUSEUM FOUNDATION

FlightLines is a unique interactive, computerized archive of the personal histories submitted to the program. These records give the museum visitor a firsthand look at the faces and deeds of aviators and aviation enthusiasts through history.

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## Colonial Virginia Chapter

15 June 1999, Col. Louis A. Bonham, Asst. Commandant USAALS and president of the Colonial Virginia Chapter, presents CWO 3 (R) Paul Hughes an Order of Saint Michael (Bronze Award) for his 20 years of outstanding service to Army aviation.



14 April 1999 Col. Bonham presents SFC Scott Bailey with the USAALS Distinguished Instructor Certificate for the 2nd quarter, FY 99. SFC Bailey also received a free one-year AAAA membership from the National Office.

## Molinelli Plaque

Shortly after the opening of the 1999 AAAA Convention in Nashville the U.S. Army Aviation Museum was presented a plaque originally given to Maj. Gen. Robert F. Molinelli when he completed a tour of duty in Vietnam as Cobra Platoon leader in the 114th Aviation Company, 13th Avn. Battalion. The plaque - which supports a Chinese-made 7.62 mm rifle, the unit crests of the Cobra Plt., the 114th Avn. Co. and the 13th Avn. Bn., and photos of Molinelli and the platoon's pilots - was given to Molinelli on Nov. 2, 1965, in recognition of his combat leadership in his last combat assignment as a company-grade aviator. The plaque occupied a wall in each of his offices as he progressed up the chain of command and was removed from his office at the time of his death. Mrs. Donna Molinelli, the general's widow, gave it to George O'Grady - a family friend and a past member of the platoon - for safekeeping.



O'Grady brought the plaque to each of the 114th Avn. Co. Association's reunions. In 1997 the surviving platoon officers voted to donate the plaque to the Army Aviation Museum, where it could be viewed by past, present and future aviation soldiers.

W. Bailey Jones, national executive secretary of the Association and a past member of the platoon, made the presentation on behalf of the Molinelli family, the Association and the surviving platoon members.



Maj. Milton O. Rodriguez, Biggs Army Airfield Commander, presents CWO 5 Lawrence Davidian with the Bronze Order of Saint Michael Award at a recent chapter function at the soon to be activated chapter at Ft. Bliss, Texas.

During the recent AAAA Annual Convention in Nashville, TN, W.E.B. Griffith, aka Bill Butterworth (left), was awarded a Silver Order of Saint Michael Award for his outstanding contribution to Army aviation through his "Brotherhood of War" series of books. Mr. Butterworth is pictured being congratulated by Maj. Gen. (Ret.) George Beatty as Mrs. James M. (Joyce) Hessen looks on.



## Washington-Potomac Chapter



Gen. Johnnie Wilson (left), CG U.S. Army Materiel Command, receives an Order of St. Michael Gold Award from AAAA President, Maj. Gen. Carl H. McNair, Jr. (Ret.) upon the occasion of Gen. Wilson's retirement after 37 years of military service. Reading the citation is Col. Mike Freeman, former AAAA National Executive Board Member and past president of the AAAA Aloha Chapter. Looking on during the May 21, 1999 Washington-Potomac Chapter Aviation Ball are Maj. Gen. James Klugh, U.S.A. (Ret.) and Brig. Gen. Myrna Williamson, U.S.A. (Ret.).



## Lost Members

Help us find our Lost Members. We'll give you an additional month on your AAAA membership free for each member you help us locate. Simply write, call or E-mail us with the Lost Member's current address. AAAA, 49 Richmondville Avenue, Westport, CT 06880-2000. Tele: (203) 226-8184; FAX: (203) 222-9863; E-Mail: [aaaa@quad-a.org](mailto:aaaa@quad-a.org).

Aiken, Terry J., 1LT  
Bernier, R. Craig, CSM, Ret.  
Bickford, Chris K., CPL  
Borden, David J., 2LT  
Bowers, Timothy O., CSM  
Bradley, Mark K., Mr.  
Broadhurst, Guy L., Mr.  
Brown, Aaron M., CPT  
Callegari, Jason S., WO1  
Carpenter, Vincent D., 2LT  
Clark, Donald V., WO1  
Courtney, Christopher, 2LT  
DiCostanzo, Jeffrey C., 2LT  
Farrell, James F., CPT  
Farrell, Todd D., 2LT  
Guerra, Velma, Ms.  
Habermehl, James L., CW3  
Hanes, Eric R., 2LT  
Hautoog, Leendert, Mr.  
Hiler, Jason W., WO1  
Hurst, Christian E., SSG  
Jenkins, Kermit A., SGT  
Johnson, Charles P., 2LT  
Johnson, Emanuel, SSG  
Johnson, Maurice L., CSM  
Johnson, Paul E., 2LT  
Lauer, Arthur C., MAJ  
Lee, Derek A., CPL  
Lenhard, Keith A., LTC, Ret.  
McCurdy, Steven J., WO1  
Milligan, Patrick S., PV2  
Neysmith, Dierdre R., SSG  
Nunez, Joseph R., LTC  
Oliver, Robert L., SGT  
O'Neill, Steven P., CPT  
Paul, Keith, Mr.  
Perreault, Elvie M., Ms.  
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Phillips, Larry S., Mr.  
Rapp, Kevin J., 2LT  
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Rhoades, Ronald G., CW5, Ret.  
Rodriguez, Milton O., MAJ  
Scheuren, Frederick W., 2LT  
Simpson, Chad D., SPC  
Smith, John T., CPT  
Strokin, Salamasinal, 2LT  
Tabor, Clint D., CPT  
Taylor, Christopher, WO1  
Temple, William E., 2LT  
Thomas, Pierce N., 2LT  
Thompson, Ken S., 2LT  
Truex, Raymond L., Mr.  
Turner, Steven A., 2LT  
Van Sykle, Francis J., Mr.  
Walker, Gregory L., WO1  
Wallin, Bruce N., SSG  
Webb, Donald R., 2LT  
Wilkins, Anthony J., Mr.  
Wynn, Lisa, SGT  
Yastrzamsky, James R., 1LT

## ShowMe Chapter



On May 15 Col. Edward C. Gruetzmacher III, Missouri's outgoing State Army Aviation Officer, was honored at a dining out in Jefferson City hosted by Col. Dalton Wright, commander of the 35th Aviation Brigade. As president of AAAA's ShowMe Chapter, Gruetzmacher bestowed upon Dalton the Order of Saint Michael's Bronze Award in recognition of the latter's more than 30 years of unceasing efforts on behalf of Army aviation.

## Army Aviation Visionary Dies

Retired Col. Robert A. Bonifacio, a Charter Member of AAAA whom Army aviation branch chief Maj. Gen. Anthony Jones called "one of Army aviation's greatest visionaries," died June 9 at his home in Titusville, Fla.

A New York City native, Bonifacio enlisted in the Army during World War II and was ultimately commissioned as an infantry officer in 1951. Over the course of his 37-year Army career he held many aviation and infantry positions, and saw overseas service in Europe, Korea, Japan, Vietnam and Iran. His final military position was as commander and president of the Army Aviation Board at Fort Rucker, Ala., and in 1994 he was inducted into the Army Aviation Research, Test and Evaluation Hall of Fame.

## Authorization Bill Conference Gear Up

The House and Senate Armed Services Committee staffs have begun discussions on potential options for resolving the differences between the respective House and Senate versions of the fiscal year 2000 Defense Authorization Bill. Typically, staff members try to negotiate tentative resolutions on as many issues as possible, leaving more time for the senators and representatives to spend their time on the larger, more contentious items.

Staffers are held to a "no leaks" policy on pain of losing their jobs, so we likely won't hear any results until all the negotiations are complete. Because Congress traditionally recesses for most of August, it's likely we won't have answers until sometime in September.

Here's a synopsis of selected key issues that will have to be decided.

- Active/Reserve Pay Raise: Both House and Senate have approved a 4.8 percent raise for January 2000, plus a special targeted raise (varying from zero to 5.5 percent, based on grade and years of service) on July 1, 2000.

The contentious issue concerns the outyears. The Senate would add one percentage point to the statutory pay raise standard for years 2001 through 2006 (current law caps raises one-half point below the average American's). The House would add one-half point to the statutory baseline, but would make it permanent. The Military Coalition believes the bigger short-term raises are needed to reduce the existing pay-raise gap, but also supports changing the long-term baseline so military raises at least track the national average.

• REDUX: Both House and Senate would give members who entered service after July 31, 1986, a choice: (1) stay with the REDUX retirement system (about a 20 percent lifetime benefit reduction from the earlier system) and accept a substantial career retention bonus, or (2) accept full or partial reversion to the previous retirement system. The difference between the two is that the Senate bill would provide full-inflation retired pay COLAs, whereas the House would cap annual COLAs up to 1 percent per year below the inflation rate. TMC believes restoring full-inflation COLAs is essential.

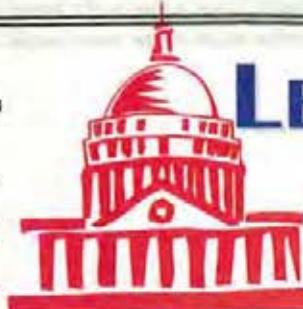
• TRICARE Improvements: Both House and Senate bills contain provisions that would seek to reduce pre-authorization and non-availability statement requirements under TRICARE Prime and TRICARE Standard, respectively, and both also recommend steps to make TRICARE claims processing faster and more accurate. In most cases the House provisions set more specific standards and guidance, which TMC sees as preferable. We also strongly support Senate provisions that would make TRICARE coverage portable among all TRICARE regions and have TRICARE provide coverage as similar as possible to that available under the Federal Employees Health Benefits Program.

• Other Medical Issues: Among many other differences, TMC supports adoption of the Senate proposal to enhance coverage under the retiree dental plan (for an additional premium) and the House provision requiring the Department of Defense to submit a plan to expand military retail and mail-order pharmacy benefits to all Medicare-eligible beneficiaries.

• Other Active Duty/Reserve Issues: A Senate provision would increase Montgomery GI Bill (MGIB) benefits 14 percent, eliminate the \$1,200 member-contribution requirement, and allow current MGIB ineligibles/nonparticipants (including previously-excluded VEAP participants) to "buy into" the program. A House provision would increase housing allowance rates to reduce members' out-of-pocket costs. We also hope the House will agree to a Senate proposal to guarantee active duty members' absentee voting rights in state and local elections (current law guarantees absentee rights only for federal elections).

• Dual Compensation: The Senate will be seeking to win House acceptance of its proposal to repeal the retired pay penalties imposed on regular officers and certain others who accept positions as federal civilian employees.

• Special Compensation for Severely Disabled Retirees: This initiative appears safe, since both House and Senate bills contained similar



## LEGISLATIVE REPORT

Col. Sylvester C. Berdux, Jr. (Ret.)  
AAAA Representative to  
The Military Coalition (TMC)

provisions to provide modest additional compensation to certain 20-year retirees who incurred severe service-connected disabilities soon after retiring.

- Survivor Benefits: The Senate would provide a two-phased increase in the minimum Survivor Benefit Plan annuity for survivors age 62 and over, and both House and Senate bills contain complementary improvements in SBP coverage for Forgotten Widows. TMC strongly supports all of these provisions.

If one or more of these issues is important to you, now is the time to get your input to your legislators, especially if one of your senators or your representative sits on the Armed Services Committee.

## Senate VA Committee OKs COLA, Arlington Bills

On June 23 the Senate Veterans Affairs Committee approved several pieces of legislation that would authorize several additional veterans cemeteries, upgrade VA health and education benefits, authorize COLAs for VA compensation recipients (the same as those for Social Security and federal retirees), and restrict burial eligibility for Arlington National Cemetery.

The latter provision would codify current burial rules in law, except that it authorizes burial of immediate family members in the same grave as a qualifying veteran (routinely approved by waiver in the past) and burial of veterans who later distinguished themselves by holding office as the president, vice president, Supreme Court justice, a member of congress, or a cabinet official, and restricts existing waiver provisions. The Committee would tighten waiver requirements so that only the secretary of defense (rather than the secretary of the Army) could approve waivers for otherwise non-qualifying veterans. Any waivers for non-veterans would have to be approved personally by the president.

The Military Coalition has endorsed the more restrictive legislation passed last year by the House, which would restrict eligibility to currently qualified veterans and same-grave burial of qualifying family members, and prohibit all waivers.

## Lawsuit Filed Over FEHBP-65 Test

On July 13 BlueCross/BlueShield Association (BCBSA) filed a lawsuit in the District of Columbia U.S. District Court challenging the government's proposed regulations covering this fall's planned test of enrolling Medicare-eligible uniformed services beneficiaries in the Federal Employees Health Benefits Program (FEHBP-65).

The lawsuit puts an unanticipated wrinkle in plans to get the FEHBP-65 test off the ground, although it's uncertain at present how serious that wrinkle will be.

BCBSA asserts it supports the test, and only objects to the way the Office of Personnel Management (OPM) proposes to set up a reserve fund to protect insurers that sign up small numbers of participants.

OPM is the government's administrator for the FEHBP. The problem boils down to an argument between the BCBSA and OPM lawyers over technical administrative details.

It's up to Congress and OPM to get their heads together and agree on a way to avoid the legalistic squabbles. We believe both Congress and OPM are sincere about wanting to see a fair test implemented on time. But there's no time to hide behind battling lawyers. These two are the honest brokers between the parties with competing self-interests.

It's time to work out a reasonable understanding and get the tests started.

### Key Committee Approves Veterans Bill

On Thursday, July 15, the House Veterans Affairs Committee voted to approve H.R. 2116, also known as the Veterans Millennium Health Care Act. This wide-ranging bill would:

- Establish a long-term care benefit for any veteran with a 50 percent or higher disability or whose need for such care is service-connected.
- Establish a new health care enrollment category for non-disabled military retirees eligible for TRICARE, essentially guaranteeing them care, as opposed to their current "space available" status.
- Set in motion authority to realign and/or close facilities according to a framework established in the bill.
- Allow VA to adjust co-payments for certain services like pharmaceuticals, eyeglasses, etc., subject to certain restrictions.

The Defense Department has expressed concern about the provision guaranteeing care for retirees under 65, since the proposed legislation envisions that VA would bill DOD for the cost. To address such concerns, Chairman Bob Stump (R-AZ) added an amendment that would:

- Require DOD reimbursement at rates negotiated between DOD and VA.
- Preclude the VA from offering care under the new authority in any network unless it has the capacity to do so in that area and unless reimbursements would cover the cost of providing the care; and,
- Direct that implementation be phased to avoid the need for price adjustments in DOD TRICARE Managed Care Support Contracts.

Senate action on the Veterans Millennium bill is uncertain at best.

### The Mandatory Spending Cap Challenge Affects All of Us

Now that the House and Senate have each passed their respective versions of the FY 2000 Defense Authorization Bill, House and Senate negotiators will try to work out their differences. The biggest difficulty they face in negotiating retirement, survivor benefits and other improvements will be overcoming congressional budget rules aimed at curbing growth in so-called "mandatory spending."

Mandatory spending is any form of spending that entails automatic annual adjustments or doesn't require a specific legislative authorization or appropriation each year.

Under congressional budget rules a committee proposing an increase in a mandatory spending item (such as retired pay or survivor benefits) must offset the cost of that initiative with other mandatory spending reductions within its purview. This is known as the "pay as you go" or "PAYGO" rule. The same rule applies to initiatives that would decrease government revenue (tax cuts, and so on).

In the Senate, an initiative that isn't properly offset can be blocked by any senator on a budget point of order, which can be overcome only by a vote of 60 percent of the Senate. The House has no such "super-majority override" rule, and House Budget Committee Chairman John Kasich (R-OH) has kept an eagle eye out for violations. Kasich also is a senior member of the House Armed Services Committee.

The tight offset rule seriously disadvantages the armed services committees because the only significant mandatory spending programs they own are retired pay and survivor benefits. Even more problematic, some health care programs, including the Federal Employees Health Benefits Program (FEHBP), are classified as mandatory spending. In effect, if the armed services committees propose any retired pay, survivor or FEHBP increase, they have to propose an equal cutback elsewhere within these same programs - a self-defeating process. The House Ways and Means and Senate Finance committees have much greater latitude to make changes (tax cuts, Medicare changes, etc.) because they control a much broader array of mandatory spending issues from which they can identify trade-offs.

The armed services committees have funded recent retirement, survivor or FEHBP initiatives mainly by enhancing government revenues

rather than cutting mandatory spending. This was done by requiring sale of noncritical assets from the defense stockpile (helium stocks, etc.). If they chose, congressional leaders could agree to allocate offsets between committees, but each committee has its own priorities and jealously guards its PAYGO offset options.

This spring, Congress found another way around the PAYGO rules to fund REDUX retirement fixes for members who entered service after July 31, 1986. Because REDUX (which provides 20 percent less lifetime retired pay value than the earlier system) has been a big factor in the current retention crisis, Congress put the REDUX fix in an emergency supplemental appropriations bill. Once approved as emergency requirements by the president, such bills are exempt from PAYGO rules. In this case, the change was funded from the new budget surplus.

But the armed services committees still have to figure ways to meet PAYGO offset requirements for other initiatives proposed by the House or the Senate, including:

- Authorizing Thrift Savings Plan participation for the active force (reduces government tax revenues).
- Repealing the retired pay forfeiture for retired regular officers and certain other retirees employed as federal civilians (raises retired pay outlays).
- Increasing Survivor Benefit Plan (SBP) age-62 annuities and making permanent the small Forgotten Widows annuity payable to about 2,000 survivors whose retired sponsors died before SBP was enacted (raises SBP outlays).
- Increasing GI Bill benefits and eliminating the \$1,200 contribution for future enrollees (raises GI Bill outlays and decreases government revenues).

Since virtually all of them have already passed the Senate by a margin of more than 60 votes, the main problem is satisfying House budget rules. Committee staffers worry that some or all of these changes may be in jeopardy. They say there are few stockpile excesses left to be sold, and the chance of being awarded offset "headroom" by other committees appears slim.

With announcements of ever-larger budget surpluses every few months, TMC believes Congress must find a way to address the pressing retirement, survivor and health care needs of the uniformed services community. After all, the government only enjoys those surpluses because of decades of sacrifice on the part of those who won the hot and cold wars of the last 60 years.

### President Proposes Medicare Changes

On June 30 President Clinton announced details of the administration's new Medicare reform plan, including a limited prescription drug benefit. Specifically, Clinton's plan would:

- Allow Medicare beneficiaries a voluntary option to elect prescription drug coverage by paying \$24 extra per month. The program would pay half of the cost of prescription drugs up to an annual cap (\$1,000 cap the first year). Over time, premiums and payment caps would rise, reaching \$44 per month and \$2,500, respectively, by 2008. The additional premiums and co-payments would be waived for individuals earning less than \$11,000 (couples less than \$15,000).
- Foster competition among Medicare HMOs by letting Medicare patients pocket the savings if they choose lower-cost plans.
- Create a 20 percent co-payment for laboratory tests, and increase the \$100 deductible each year to keep pace with inflation.
- Eliminate co-payments and deductibles for preventive services such as pelvic exams and prostate cancer screening.
- Allow those age 62-65 to "buy into" Medicare at a cost of \$300 per month.

Responding to speculation that addition of a Medicare drug benefit would prompt employers to drop drug coverage for retirees, the president announced he would provide as-yet-unspecified subsidies and other incentives to employers to continue retiree drug coverage. TMC would lobby hard to ensure such subsidies and incentives would extend to government employers, so the Department of Defense would not be tempted to drop its efforts (and responsibility) to expand DOD pharmacy coverage to all Medicare-eligible uniformed services beneficiaries. □



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# FUNCTIONAL AWARD NOMINATIONS

Contact the AAAA National Office for nomination forms for these awards. Membership in AAAA is not a requirement for consideration.

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#### 1999 AAAA AIR/SEA RESCUE AWARD

Sponsored by TRW Aeronautical Systems, Lucas Aerospace, the AAAA Air/Sea Rescue National Award will be presented "to the crew or crewmember who has performed a rescue using a personnel rescue hoist that saved the life or eased the suffering of an individual or individuals during the awards period encompassing Sept. 1, 1998, through Aug. 31, 1999."

#### 1999 AAAA TRAINER OF THE YEAR AWARD

Sponsored by Raytheon Systems Company, the AAAA Trainer of the Year Award will be presented "to the trainer who has made an outstanding individual contribution to Army Aviation during the awards period encompassing Sept. 1, 1998, through Aug. 31, 1999."

A candidate for this AAAA National Award may be a military or civilian nominee and must be actively involved in Army aviation training.

#### 1999 ARMY AVIATION MEDICINE AWARD

Sponsored by Gentex Corporation, this National Award will be presented "to the flight surgeon or aeromedical physician assistant who best exemplifies the contribution to Aviation during the awards period encompassing Sept. 1, 1998, through Aug. 31, 1999."

A candidate for this AAAA National Award must be U.S. Army, active or reserve component, and must be actively involved in aviation medicine support to Army aviation.

#### 1999 ARMY AVIATION FIXED WING UNIT AWARD

Sponsored by FlightSafety International, the Army Aviation Fixed Wing Unit Award will be presented "to the unit or detachment with fixed wing aircraft that has achieved the highest level of excellence in training, safety, logistics, operations and support during the awards period encompassing Sept. 1, 1998, through Aug. 31, 1999."

A candidate for this AAAA National Award must be a U.S. Army, active or reserve component, unit or detachment with fixed wing aircraft that has met the foregoing criteria.

#### 1999 AAAA AIR TRAFFIC CONTROL AWARDS

Sponsored by AAAA, the Air Traffic Control Awards will be presented "to the facility, company manager, maintenance technician, and controller that have achieved the highest level of excellence in training, safety, logistics, operations and support during the awards period encompassing Sept. 1, 1998, through Aug. 31, 1999."

Candidates for this AAAA National Award may be a military or civilian nominee and must be actively involved in Army aviation air traffic control.

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**The following Army General Officer nominations were confirmed by the Senate on 30 June 1999:**

Lieutenant General Thomas N. Burnette, United States Army, for reappointment to the grade of lieutenant general and assignment as Deputy Commander in Chief, United States Atlantic Command, Norfolk, Virginia. Since July 1997, he has served as the Deputy Chief of Staff for Operations and Plans, United States Army, Washington, DC.

Major General Billy K. Solomon, United States Army, for appointment to the grade of lieutenant general and assignment as Commanding General, United States Army Combined Arms Support Command and Fort Lee, Fort Lee, Virginia. Since August 1997, he has served as the Director for Logistics and Security Assistance, J-4/J-7 United States Central Command, MacDill Air Force Base, Florida.

Brigadier General Alan D. Johnson, United States Army, for promotion to the grade of major general. Since August 1998, he has served as Deputy Commanding General, First United States Army (North)/Commanding General, Fort George G. Meade, Maryland.

**The Chief of Staff, Army announces the assignment of the following general officers:**

Major General Larry G. Smith, from Commanding General, United States Army Security Assistance Command, Alexandria, Virginia to Deputy The Inspector General, Office of the Secretary of the Army, Washington, DC with a report date to be determined.

Major General Bruce K. Scott, from Chief, Legislative Liaison, Office of the Secretary of the Army, Washington, DC to Commanding General, United States Army Security Assistance Command, Alexandria, Virginia with a report date to be determined.

Major General William J. Lennox, Jr., from Assistant Chief of Staff, C3/J3, United Nations Command/Combined Forces Command/United States Forces Korea/Deputy Commanding General, Eighth United States Army to Chief, Legislative Liaison, Office of the Secretary of the Army, Washington, DC with a report date to be determined.

Brigadier General (Promotable) R. Steven Whitcomb, from Deputy Commanding General/Assistant Commandant, United States Army Armor Center and School, Fort Knox, Kentucky to Assistant Chief of Staff, C3/J3, United Nations Command/Combined Forces Command/United States Forces Korea/Deputy Commanding General, Eighth United States Army with a report date to be determined.

Brigadier General James J. Grazioplene, from Assistant Division Commander (Maneuver), 2d Infantry Division, Eighth United States Army, Korea to Deputy Commanding General/Assistant Commandant, United States Army Armor Center and School, Fort Knox, Kentucky with a report date to be determined.

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Oct. 11. AAAA National Executive Board Meeting, Washington, D.C.

Oct. 11. AAAA Scholarship Foundation, Inc. Executive Committee Meeting, Washington, D.C.

Oct. 11-13. 1999 AUSA Annual Meeting, Washington Marriott Wardman Park Hotel, Washington, D.C.

Oct. 16-17. "RotorFest '99: Wings of Thunder", American Helicopter Museum & Education Center, Brandywine Airport, 1220 American Blvd., West Chester, PA 19380. Cost: adults \$8, children 12 years and younger \$6, discounts offered for members and seniors. For additional information contact the museum at 610-436-9600.

Oct. 26-28. AHS Structures Meeting, Williamsburg, Va.

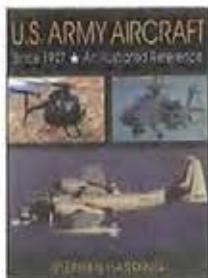
Oct. 23. Army Aviation Center Chapter 8th Annual Chili 5K and Cook-Off Competition. Contact Capt. Joe Edwards (334) 255-5054 or CWO 2 Steve Black (334) 255-5820.

Dec. 8. The Lindbergh Chapter Christmas Party, 1130 Hours at the Echo Country Club, Normandy, MO. All AAAA members and their guests are invited. Free drinks and door prizes. Contact Paul Hendrickson, Lindbergh chapter president, 314-928-0359.

Mar. 29-Apr. 1, 2000. The 2000 AAAA Annual Convention, Fort Worth Convention Center, Fort Worth, Texas.



# ARMY AVIATION Book Store



## U.S. Army Aircraft Since 1947

An Illustrated Reference  
by Stephen Harding

This is the only comprehensive guide to the 124 types of helicopters, fixed-wing aircraft and experimental flying machines used by the U.S. Army since 1947. The author includes information on aircraft serials, markings, weapon systems, operational history

and other technical data. Illustrated with more than 220 color and black and white photographs. [Schiffer Publishing Ltd. Size: 8 1/2" x 11", 264 pages, hard cover; ISBN: 9-7643-0190-X].

## Breaking the Phalanx

by Douglas A. Macgregor

This work proposes the reorganization of America's ground forces on the strategic, operational and tactical levels. The analysis argues that a new Army warfighting organization will not only be more deployable and effective in joint operations; reorganized information-age ground forces will be significantly less expensive to operate, maintain and modernize than the Army's current Cold War division-based organizations. [Praeger Publishers, Size: 6"x9 1/8", paperback, 283 pages, ISBN: 0-275-957942].

## We Were Soldiers Once ... And Young

by Harold G. Moore & Joseph L. Galloway

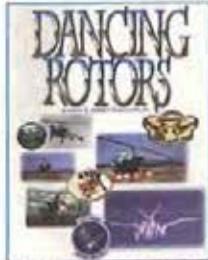
We Were Soldiers Once ... and Young presents a picture of men facing the ultimate challenge, dealing with it in ways they would have found unimaginable only a few hours earlier. It reveals man's most heroic and horrendous endeavor. [Harper Collins Publishers, Size: 5 1/2" x 8, 483 pages, paperback. ISBN: 0-06097576-8].

## Army Aviation in Vietnam 1961-1963

An Illustrated History of Unit Insignia, Aircraft Camouflage & Markings

by Ralph B. Young

Amy aviation came of age in Vietnam and experienced an incredible proliferation of unit insignia and markings on both its fixed- and rotary-wing aircraft. This comprehensive volume surveys the vast array of camouflage schemes and official and unofficial markings - including patches, mottoes and call signs - that graced Army aircraft during the early years of American involvement in Southeast Asia. Well written and lavishly illustrated, Army Aviation in Vietnam, 1961-1963 is a must-have work for any serious student of Army aviation history. [The Huey Company, Inc., Size: 8 1/2 x 11, 124 pages, hard cover and paperback. ISBN: 0-9671980-0-3].



## Dancing Rotors

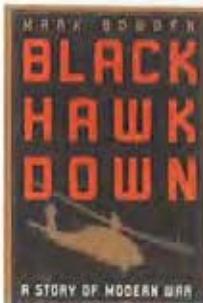
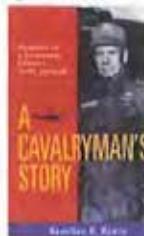
by Harry E. (Ned) Gilliland, Jr.

Dancing Rotors documents the evolution of U.S. military helicopter precision flight demonstration teams from 1948 through 1976. A wealth of very unique helicopter history, heretofore untold, is now within the reach of every helo enthusiast. [Aerofax, Inc., size: 8 1/2" x 11", 483 pages, paperback. ISBN: 0942548-57-4].

## Black Hawk Down

by Mark Bowden

Black Hawk Down is the gripping story of the October 1993 battle in Mogadishu, Somalia. Bowden captures the harrowing ordeal through the eyes and words of the young men who fought the battle, a battle that ultimately led to the posthumous awarding of two Medals of Honor. [Atlantic Monthly Press, hardcover]



## A Cavalryman's Story

Memoirs of a Twentieth Century Army General Hamilton H. Howze

A Cavalryman's Story is the memoir of a professional soldier recognized today as the father of U.S. Army Airmobile tactics and doctrine. As the first director of Army aviation, Howze promoted the concept to industry, the government, and the public. His vision came to fruition in the 1960s when he presided over the U.S. Army Tactical Mobility Requirements Board, known as the Howze Board, which proved the viability of sky cavalry in combat. [Smithsonian Institution Press, Size: 6"x9", 316 pages, hard cover, ISBN: 1-56098-664-6].

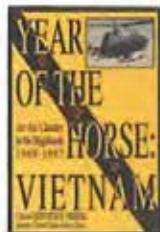
## Year of the Horse: Vietnam

1st Cavalry in the Highland 1965-1967

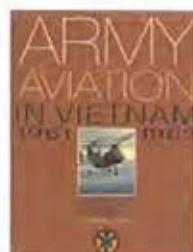
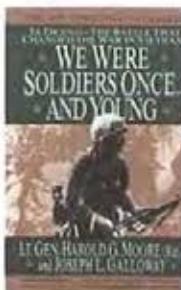
by Col. Kenneth D. Mertel (USA, Ret.)

Year of the Horse: Vietnam is the day-to-day story of the 1st Battalion, Airborne, 8th Cavalry Division. Mertel pays tribute to the many acts of heroism of his men, who lived, worked and fought together in some of the world's most inhospitable conditions. [Schiffer Publishing Ltd., Size: 6"x9", 384 pages,

hard cover; 59 color photographs, 9 maps; ISBN: 0-7643-0190-X].



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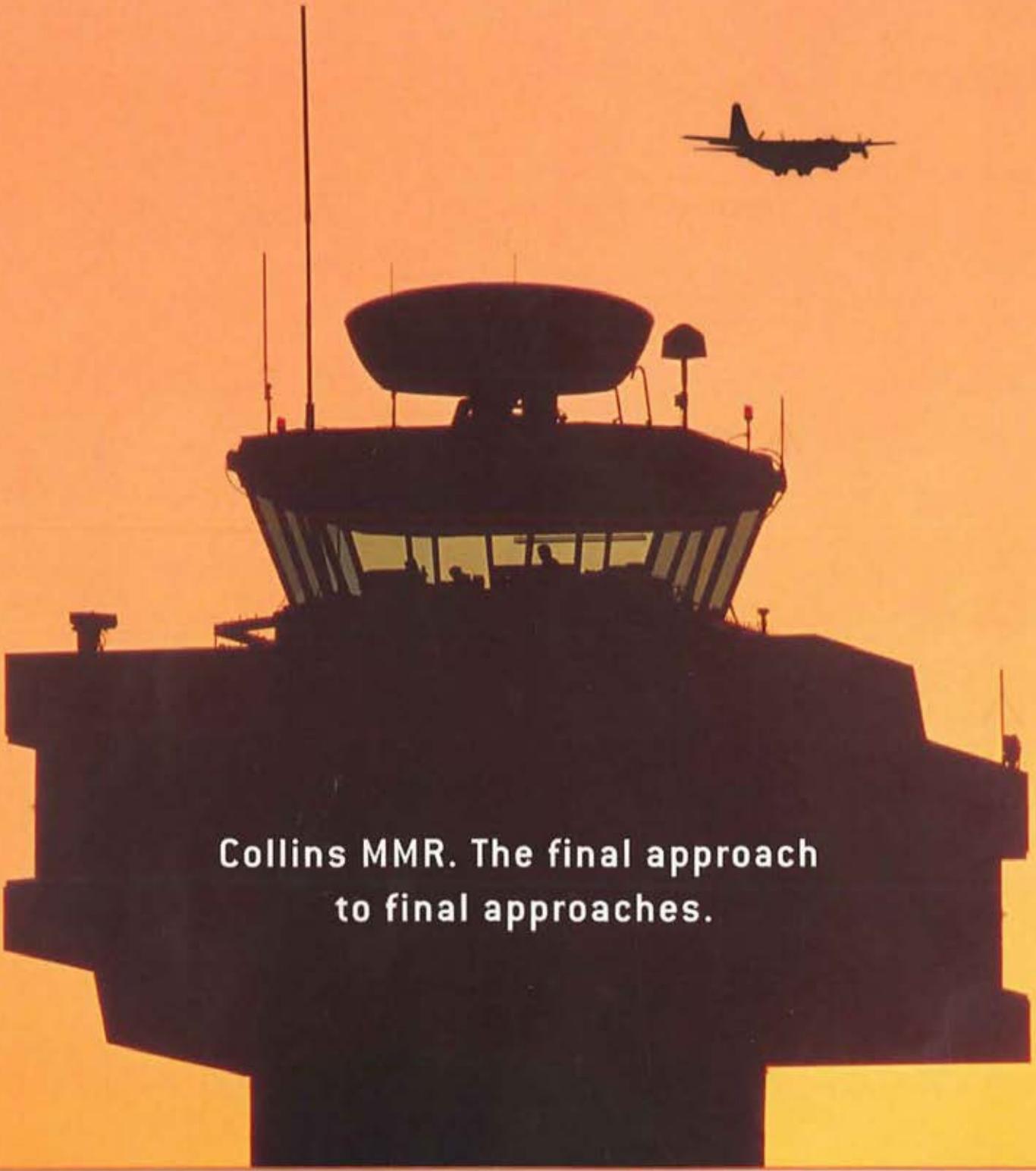
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