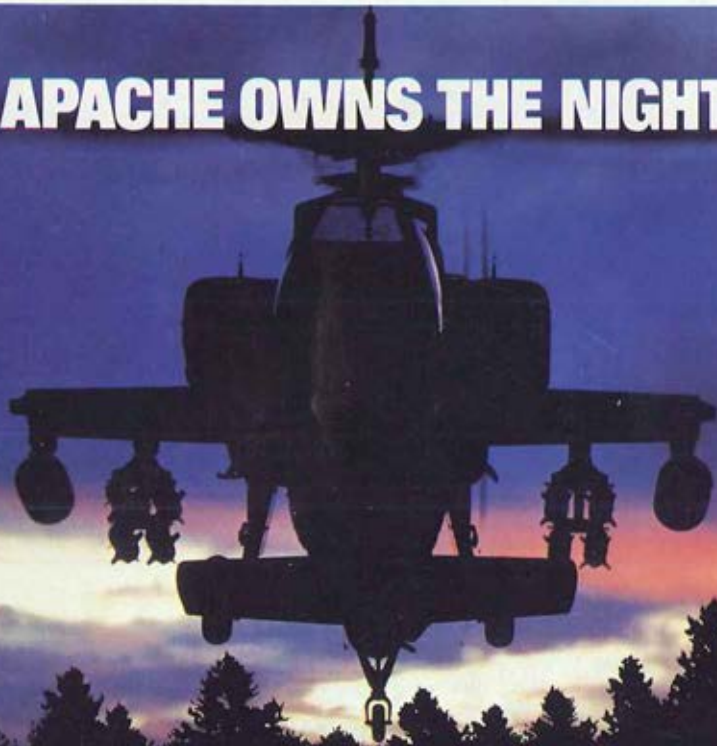


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ARMY AVIATION

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APACHE OWNS THE NIGHT.



APACHE

It gives nightmares to all the right people.

MCDONNELL DOUGLAS



AAAA — The Silent Partner

by SFC (P) William C. Hawkins
Vice President for Enlisted Affairs, AAAA
Pikes Peak Chapter, Ft. Carson, Colorado

After a recent AAAA Chapter function I was approached by one of our 1SGs and asked to address his NCOs and soldiers on why they should join and support AAAA. I gladly accepted. When I returned to my office, I thought about how I could best accomplish this. I began by reading some recent articles in ARMY AVIATION MAGAZINE and listing the subjects that were addressed: OH-58D (AHIP) Maintenance Training, Automated Log Books and Flight Safety Parts Program etc. These are important subjects for those of us who have chosen Army Aviation as our career.

I then read a paper published by AAAA and written by CW3 Robert H. Lee, then VP Public Affairs, Aloha Chapter, titled "Ten Reasons for Joining AAAA". The paper is pertinent, informative, and well written, but inadvertently reinforces a long-standing misconception that AAAA is an "officers only" association.

Time to Set the Record Straight

In 1984 while assigned to Ft. Rucker, I served on the Executive Board of the Aviation Center Chapter as the VP for Programs. I was approached by a CSM one day and asked how I could serve on that board, since he was led to believe that you must be an officer to do so. I quickly clarified the situation for the CSM.

The point is that the misconception mentioned earlier is not just harbored in the lower grades. **The "officers only" perception has been around for a long time, and it's time to try and set the record straight.**

Army Aviation, as is any successful organization, is a team affair. All members of that team

are equally important — officer, warrant officer, NCO, soldier and civilian. Since its inception in 1957, AAAA has supported our team. AAAA has always been the "Silent Partner" of, and supported the advancement of, Army Aviation.

A Metamorphosis

I have been fortunate to serve in Army Aviation for 17 plus years, and have been witness to a metamorphosis in our profession from an organization jokingly referred to as "The World's Greatest Flying Club" to the highly professional organization we know today. The Aviation Branch is a combat arm and a key player on the combined arms team. Our officer leaders are the best ever. Our warrant officers are still the basis of professionalism in our aviator corps. Our NCOs are thorough NCOES, the best educated, have more pride and accept more responsibility than ever. Our soldiers are the most highly motivated, best educated in the history of our Army. The equipment that we manage, maintain and fly is the stuff Buck Rogers stories are made of and continues to advance.

AAAA has done much in the past few years to alleviate the "officer only" line of thought. In almost every Chapter there is now a VP for Enlisted Affairs, and NCOs and soldiers are serving in many other positions in various chapters. There is now a National Member-at-Large representing the Enlisted on the National Executive Board.

Most importantly, there are now Professional Enlisted Programs at both the USAREUR and National Conventions. We, the
(Partner — continued on page 55)

World War II, Korea, Vietnam, the Middle East. The Textron Lycoming/Pratt & Whitney engine team has been there.

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The Technician-Scholar Warrior

by Major General Ellis D. Parker
Commanding General, U.S. Army Aviation
Center and Ft. Rucker, Alabama

WARFARE has reached such heights of technological sophistication as to almost stagger the mind, and we in the Army and in the Aviation Branch are only too aware of this. Our warriors have become more powerful because technology has allowed their war-making systems to be more lethal. This means that we need more and better trained technicians because of the lethality quotient brought about by improved technology. Conversely, improved technology has reduced the need for large numbers of warriors to man the weapons systems.

Three Hats

The Aviation Branch is seeking officers who can wear three hats: warrior, technician and scholar — simultaneously. It is imperative we have officers with the capability to be all three in order to identify the technological needs of Army Aviation for the remainder of this century and into the 21st Century.

Two significant needs of our branch will be in the areas of robotics and low observable technology (stealth). The incorporation of these two elements into aviation technology will necessitate our having developmental engineers, combat developers, program managers and acquisition managers. We plan to get the personnel for these functions from the ranks of selected officers from captain to colonel.

What kind of officers are needed? We are looking basically for those from year group 1980 and later who have an undergraduate degree in engineering or a technology oriented discipline and have demonstrated potential to obtain an advanced degree in such a discipline.

We envision developing world-class scholars

with a three-step approach. The first step will be having our branch officer attain an advanced degree in the above "high tech" discipline from a major university. Secondly, we will expect the selected officer to undergo technological development by working with selected civilian industries for one year. By the way, the response from industry has been overwhelming. Civilian aviation firms have expressed a great deal of interest in our world-class scholar program and want these officers to work with them in the emerging high technology fields. Our third step, every bit as important as the other two, deals with professional development. This entails our military schools and courses; short tours to Table of Organization and Equipment units in either CONUS or OCONUS; and then participation on a full-time basis in aviation technology programs. This will be a very select group of aviation officers who will help guide our branch through the complexities of high technology as we move into the 21st Century.

Scholarship Program

In conjunction with the above program, I had the privilege of attending a TRADOC sponsored conference at Ft. Lee, VA on August 5. We presented our proposals for the world-class scholarship program which were well received, and simultaneously received guidance from TRADOC on its implementation.

We invite individuals interested in the world-class scholar program to contact CPT Kevin M. McPoyle, Office of Personnel Systems, Directorate of Aviation Proponency, USAAVNC, Ft. Rucker, AL, 36362-5000. As the program develops, there will be periodic updates in this publication.

As I promised last month, let me tell you now about the Small Group Instruction (SGI) program

“The Aviation Branch is seeking officers who can wear three hats: warrior, technician and scholar — simultaneously.”

which is part of our branch Aviation Officer Advanced Course. This was a long time in coming and was only implemented after careful and decisive planning. The primary concept behind it was the need to get away from rather impersonal large classes of instruction and into the personal small group instruction. We found that SGI invites self motivation, active participation, concerted discussion, and a heightened esprit among our advanced course participants.

The SGI program is administered by two companies in the 4th Battalion, 1st Aviation Brigade (Air Assault): Company E, commanded by MAJ William A. Tucker, and Company F, commanded by MAJ Thomas Kaszas. Each company has nine SGI teams that are led by captains. These teams carry the designation Task Force Four.

The first SGI advanced course began May 12. The 100 training days used by the officers and their team leaders are being well spent. The students are learning topics such as leadership, principles of war, advanced technology and its effects upon tactics, the dynamics of warfare, and the application of technology, logistics and history on battlefield doctrine. The SGI is being done in somewhat of a teaching laboratory setting, replete with self-contained study, research, and instruction modules, all of which are more conducive to learning than the large open classroom.

Historic Lessons

One thing which has really impressed me is the fact that a staff ride is incorporated into the Advanced Course. The SGI teams and leaders, company commanders, and the USAAVNC Command Historian went to Chickamauga Battlefield in Georgia September 18-21. The SGI students walked across this important battlefield, on the the 124th anniversary of the Battle of Chickamauga.

The staff ride examined battle analysis and application to AirLand Battle doctrine. I believe staff rides, such as that of the Battle of Chickamauga, are important because they provide Army Aviation officers an opportunity to see how the Combined Arms concept was used. The tactics and technology may have changed, but the principles of war remain the same. Our aviation officers must know how to use the technology available to them and apply it to the terrain on which they are fighting.

Though new, the Small Group Instruction program has a promising future in regard to the training and education of our officers. However, we must strive here at the schoolhouse to make it even better; and I know we will do this.

Spouse Education

Another project I am proud to see implemented is the Spouses Enhanced Education Development program which began August 25 at Ft. Rucker. The 14-day course is supervised by the 1st Aviation Brigade and will be held three times a year. This is one way we can enhance our goal of building a strong partnership between the Army and Army families.

Spouses receive important material on topics such as family health, personnel management, stress management, legal assistance and preparation of federal employment applications, plus information on other significant programs and material beneficial to Army families. As Chief of the Army Aviation Branch, it is important to me that all of our Army spouses know that they truly count and contribute much to the success of our branch and Army. The Spouses Enhanced Education Development Program is designed to enhance that knowledge. Its presentation helps express our appreciation for all they do for us as individuals and for the Army. ■■■■



Attack Helicopter: Close Operations

by Lieutenant General Crosbie E. Saint,
Commander, III Corps and Ft. Hood
Ft. Hood, TX

Speed, flexibility, and agility make the attack helicopter, especially the AH-64 APACHE, a primary player throughout the extended battlefield. As attack helicopter units develop, refine, and standardize multi-battalion operations, in both the day and night environments, their ability to dominate and to focus combat power in rear and deep operations becomes obvious. Attack helicopters are providing commanders at division, Corps and Army level with significantly increased capabilities to influence the extended battlefield and give new meaning to the term AirLand battle. In addition to the impact attack helicopters are having on the way we think about and fight rear and deep operations, they are a significant combat multiplier in close operations — the decisive leg of the AirLand battle triad.

Fielding the AH-64s

Although the development and testing of the concept of an attack helicopter in the anti-tank role was initiated at Ft. Hood in the early seventies, the integration of the attack helicopter into our divisions is a relatively recent occurrence which generally began in 1977 and still is not complete. With the training of 29 new AH-64 equipped attack helicopter battalions at Ft. Hood, we will not only rapidly complete the fielding of attack helicopter units in our active divisions, we will also field multiple attack helicopter battalions in our Corps aviation brigades and in our reserve forces.

During the fielding of our attack helicopter units, we decided to create an aviation branch which, with enviable speed and efficiency, created the requisite basic and advanced courses and published the initial aviation CAPSTONE manual for attack helicopter operations for divi-

sional battalions and brigades. My observations indicate, however, that the training and education of our ground and air maneuver commanders and of our combat support and service support commanders have not kept pace with our unit fielding programs.

Evaluating Effectiveness

In this article (the first of what I hope will be five articles) on attack helicopter operations in close operations, we will present a way to think about and understand the environment in which the attack helicopter must operate, a way to look at and evaluate attack helicopter effectiveness, and where and how attack helicopters fit into close operations. I know the following thoughts will generate discussion, unrest, maybe even excitement. All to the good — that means you are thinking.

Close operations, orchestrated and fought primarily by divisional and brigade commanders, require the integration, coordination, and synchronization of the entire AirLand battle team. Attack helicopter units, as part of that team, have the ability to focus combat power and impact the tempo of battle with awesome speed, flexibility, and versatility. These unique capabilities of the attack helicopter can only be fully realized, however, if they are completely integrated into the commander's scheme of maneuver and given appropriate time (not necessarily a long time) to accomplish the troop-leading steps, apply the factors of Mission Enemy Time Troop Terrain (METTT), and develop the required operational plans.

The attack helicopter unit that is simply placed in reserve (which is a good mission if fully developed and has a scheme of maneuver designed to win) with no further explanation of

“Training and education...have not kept pace with our unit fielding programs.”

intent, priority or contingency requirements, or the attack helicopter unit that is told to just stand by and we will call you when we need you, is an attack helicopter unit that, in addition to being poorly led, is of little use to anyone. To combat this mentality or lack of it, in III Corps, we refer to uncommitted forces as the “attack force”. That is, they are not committed to battle pending full development of the scheme of maneuver and the appropriate moment to strike at a created or recently discovered vulnerability. When the call finally comes for this unit to “get here as soon as possible and fire for effect; we are in trouble”, the attack helicopter commander is in a no-win situation. He can either rush forward into an area and a situation with which he is unfamiliar, or he can attempt to accomplish the detailed planning and coordination required to successfully integrate his force into the battle. In either case, he is going to have little if any significant effect on that particular battle and if not careful, may lose a large part of his force. The watch phase “Be a part of the scheme of maneuver” is key to success.

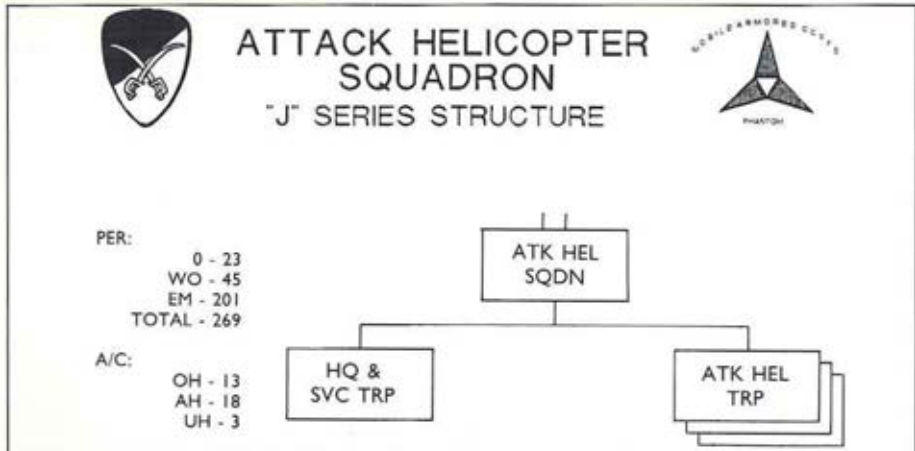
The key here is that although attack helicopters can respond with great speed and flexibility, their effectiveness is directly proportional to the degree

to which they can integrate, plan, coordinate, and synchronize — the same as any other combat unit. If an attack helicopter battalion without previous coordination is ordered at midnight to immediately respond to an enemy air assault in the Corps rear, it just received a mission it cannot accomplish even though it may desperately try with disastrous results. However, if an attack helicopter battalion is given the mission at midday to be prepared to attack an enemy air assault in any of five different locations in the Corps rear that evening, it will probably be able to effectively execute the order at midnight in any of the locations.

Understanding is Vital

Our challenge is to develop an understanding of attack helicopter operations in close operations; how the factors of METT² impact on those operations; the planning, coordination, synchronization, and sustainability requirements for the operation; and an appreciation for the time and space factors relative to attack helicopter operations.

The organization of the J-series attack helicopter company and battalion is depicted in the accompanying diagram. The important point here is that all capability for planning and coor-



"The watch phrase 'Be a part of the scheme of maneuver' is key to success."

dination, refueling and rearming, and maintenance has been consolidated at battalion level in the headquarters and service company. The attack helicopter companies are organized with 10 helicopters (six attack and four scout) and the pilots and crew chiefs to man them. As such, the lowest level at which planned, coordinated, and sustained attack helicopter operations can be conducted is at the battalion level.

Attack helicopters operate in an environment made lethal by almost all weapons on the battlefield. Threats to attack helicopters are generally categorized as weapons that acquire and engage using visual means, weapons that acquire visually and engage using infra-red, and weapons that acquire and engage using radar. Attack helicopters survive by avoiding, deceiving and degrading the threat, or by destroying the threat.

Attack helicopters avoid the threat by avoiding detection through the use of a variety of operational techniques, including terrain flight (low level, contour, nap of the earth); aggressive use of scouts; pop up techniques; maximum standoff techniques; engagement from masked positions; rapid destruction of target; operation under cover of darkness, and rapid and frequent displacement. They deceive and degrade the threat using aircraft survivability equipment such as IR paint, IR suppressors, IR jammers, radar jammers, radar warning receivers, and flares and chaff. In general, attack helicopters will operate against three types of enemy target arrays on the airland battlefield:

- deployed units which are usually characterized by integrated air defense and conventional artillery;
- units in assembly areas operating with integrated artillery and air defense;
- and units in march column, on rail cars or heavy transporters operating under area air defense systems.

Deployed Units

The deployed unit is generally encountered in close and rear operations by both corps and divisional attack helicopter units. This unit is organized for, expecting, and prepared for battle. It must

be approached with caution and stealth. It must be engaged from maximum standoff range using pop up techniques or from a masked position. The video recorder on board the AH-64 provides an excellent capability to pop up, record and then to remask and study the battlefield. Aggressive efforts should be made to initiate engagement from the flanks or rear of this target.

Assembly Area Units

Units in assembly area are generally found in the deep battle. Units in assembly areas, especially armored and mechanized units, are generally dug in, camouflaged, and have well developed plans for their integrated and/or area air defense. They resemble a porcupine and must be approached with caution and engaged at maximum standoff range. Infrared and radar suppression and Advanced Joint Arms Attack Team Tactics integration is a must.

March Column Units

Units in march column are usually encountered in the deep battle, operate under an area air defense system and provide the most lucrative targets for attack helicopter units.

Attack helicopters can be expected to perform the following missions during close operations: Offense, Defense, Retrograde, Economy of Force, Covering Force, and Recon and Security. The effectiveness of attack helicopters in the conduct of these operations is dependent on two things — the availability of numerous targets and moving targets.

(Close Ops — continued on page 12)



A photograph taken from the perspective of someone inside a vehicle, looking out through a window. In the center of the frame, a soldier stands in a field of dry, brownish grass with their arms raised in a 'V' shape. The background is a dense line of tall, thin trees under a clear sky. The text 'OUR T800 MAINTENANCE BASE.' is overlaid in white, bold, sans-serif font across the middle of the image.

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Close Ops (continued from page 10)

If we look at attack helicopter operational effectiveness in the offense from the perspective of the availability of numerous and moving targets, we can see that the relative effectiveness of attack helicopters varies across the offensive spectrum where the measure of effectiveness is a high ratio of targets destroyed to helicopters lost. In the movement to contact, effectiveness will vary depending on who is moving and stationary on contact.

As we transition to the hasty and deliberate attack, we can see the significant degradation of effectiveness as targets hide, camouflage, and dig in to hull defilade positions. Although attack helicopters units are not as effective in attacking targets in defensive positions or in flushing targets out of tree lines, they can be used during the hasty and deliberate attack in a support-by-fire role. However, these are slow and deliberate operations which expose the attack helicopter unit to the coordinated and integrated fire power of the defending force and make it very difficult to avoid detection or to effectively deceive or degrade the threat.

Sharp Increase in Effectiveness

As the offensive operation continues and we transition to the exploitation and pursuit, we see the sharp increase in effectiveness as the enemy is required to evacuate his defensive positions and present numerous moving targets as he displaces to the rear. During the exploitation and pursuit, attack helicopters units attack through or around penetrations and through gaps to envelope and destroy enemy forces and to destroy enemy counterattack forces threatening the penetrating and exploiting force.

In the defense, the availability of numerous and moving targets assures a high degree of attack helicopter effectiveness in containing, isolating, and destroying enemy penetrations and flank threats and in reinforcing committed ground

maneuver units. The ability of attack helicopter units to plan multiple missions and execute them in rapid succession provides the commander with great flexibility and an advanced ability to focus his combat power.

Attack helicopters give the commander a similar capability in delay and retrograde operations. Additionally, they give him the capability to recover if his operation is prematurely discovered, to extract portions of his force that become decisively engaged, and to maintain tremendous fire on the enemy while his ground force displaces to a successive delay position.

Recon and Security

Although reconnaissance and security missions are primarily air cavalry missions, they are secondary missions that the attack helicopter unit can effectively perform. When assigning security missions to an attack helicopter unit, we must be sure we keep the mission within the capability of the unit. If, for instance, we assign the unit the mission of screening a certain portion of our north flank and that screen requires the assets of an attack squadron, that squadron can only maintain the screen for two hours.

If the mission lasts more than two hours, two attack squadrons will be required. If the mission requires eight or more hours on station, at least one other attack squadron will be required to accommodate the requirements of feeding, sleeping, and maintenance. The ability of an attack helicopter unit to continue that screen into the hours of darkness will depend on the size and type of unit that constitutes a threat to the screened unit and the type of aircraft being employed by the screening unit. As an example, if we assign an AH-64 equipped aviation brigade the mission to provide a screen oriented on fast moving threat forces of regimental strength or larger, we have assigned it a mission we can reasonably expect it to effectively execute into the hours of darkness.

In order to fully realize the unique capabilities of the attack helicopter, we must follow three basic concepts. First, use attack helicopters in bunches.

(Close Ops — continued on page 14)

“In the defense, the availability of numerous and moving targets assures a high degree of attack helicopter effectiveness in containing, isolating and destroying enemy penetrations...and in reinforcing committed ground units.”



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Close Ops (continued from page 12)

As alluded to earlier, it does not make sense to dispatch one or two attack helicopters in response to every reported sighting of a couple of enemy vehicles. The lowest level that attack helicopters should be integrated into the scheme of maneuver is at the battalion in mid-intensity conflicts. Secondly, the employment of attack helicopters must be swift and decisive. Lastly, their operations must be completely integrated into the combined arms scheme of maneuver.

This last point has been the source of a great deal of misunderstanding and confusion with respect to the level of integration. It generally manifests itself during exercises (national training center) and on ranges through attack helicopter operations that are more an afterthought (Oh, my God; we are in trouble) than a planned, coordinated, and integrated exercise.

Integration Must Be Reviewed

For some reason, we have attempted to integrate attack helicopters into the combined arms team at the tank and mech company and battalion level. Quite often the unit we attempt to integrate is the attack helicopter company. What we end up with is a unit that is ill prepared to plan for and employ attack helicopters, receiving an attack helicopter company (which cannot plan for or sustain itself) with little or no prior notice and concurrent with the requirement for immediate use. Why do we expect attack helicopters to effectively operate in this environment? Why do we think that helicopter battalions OPCON to the ground maneuver brigade must be passed down to the battalion or company for employment? We do not do the same thing with attached or OPCON tank or mech battalions. They are integrated into the battle at brigade or division level. The answer to these questions probably lies in the way we perceive attack helicopter units.

First, we perceive attack helicopter units in Air Force rather than ground maneuver terms. Secondly, we expect attack helicopter units to plan, coordinate, and synchronize with the same speed and flexibility that they move.

Attack helicopter units must be integrated into the combined arms scheme of maneuver at

its conception and at the highest level possible, generally at the corps and division level. This can be accomplished if the aviation brigade commander is expected and required to be a tactical commander of an attack force who plans brigade operations and fights as a brigade rather than serve as a distributor of resources.

The aviation brigade of the division and corps should be employed as an attack force through the preparation of numerous operational plans based on the intelligence preparation of the battlefield. The key fighter and integrator in our AOE Army is now the Brigade. Thus, Brigade operations are planned, implemented, and executed by the aviation brigade commander. If corps attack helicopter regiments or divisional battalions are placed under the operational control of subordinate units, it should be done for a specific mission and should not be the routine mode of operation.

Close Operations

Close operations present the most difficult challenges to attack helicopter units. The challenges, which are numerous, generally relate to the ability to completely integrate the attack unit into the battle. The genesis of the problem is the inability of the commander to develop a scheme of maneuver with sufficient timeliness, insight and vision to maximize the capability of the attack helicopter assets available to him. The most difficult problems in executing attack helicopter operations without a detailed scheme of maneuver is the inability to conduct detailed coordination and integration with the ground maneuver unit. The problem manifests itself through inadequate intelligence, the inability to develop and clear routes to the operational area, uncoordinated battle positions, engagement areas, and fire distribution plans, as well as the inability to communicate (secure variables, CEOI extracts, frequencies and call signs). The bottom line is that we have an attack helicopter unit attempting to execute a scheme of maneuver without adequate fire support integration which results in an inability to put lead on the target in a timely manner and survive — which equals ineffectiveness. The integration of the Air Force into our operations is also severely degraded. With the exception of assets acquired through the immediate request net, 24 hours generally

(Close Ops — continued on page 58)

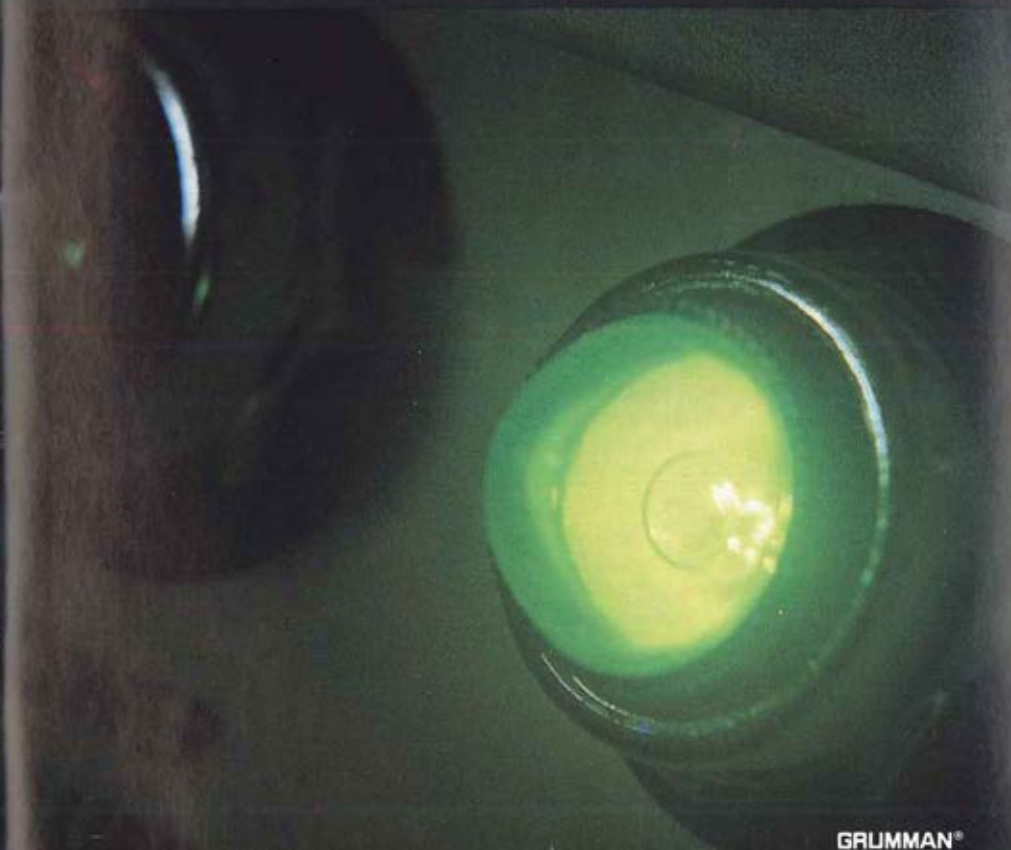
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Operations:

Freedom's Eagles on Freedom's Frontier

by Colonel Joshua L. Kiser



KOREA — The Eighth United States Army (EUSA), serving on freedom's frontier in the Republic of Korea, operates under unique conditions. The cultural experience, the terrain, the threat, and the combined nature of military operations contribute to a training environment unlike any other.

In addition, the fact that most American soldiers in Korea are there on a remote tour contributes to the challenge for leaders and soldiers alike. In this environment, US Army aviators perform all the branch's missions in supporting the widespread activities of the Eighth Army.

17th CAG

The largest US aviation unit in Korea is the 17th Combat Aviation Group (CAG). The 17th, known as "Freedom's Eagles," provides vital peacetime support to EUSA, United States Forces Korea (USFK), the ROK/US Combined Forces Command (CFC), and the United Nations Command (UNC). The 17th participates fully in the wide range of training exercises conducted in the ROK, from CPXs to the annual combined FTX "Team Spirit."

The 17th CAG presently consists of the 19th and 52d Com-

COL Kiser is Commander, 17th Combat Aviation Group, APO San Francisco.

bat Aviation Battalions (CABs) and the 4th Battalion, 58th Aviation (ATC). By late September it will also have on line the 309th Attack Helicopter Battalion.

19th CAB

The 19th CAB, commanded by LTC Clarence S. Ivie, Jr., and containing the 213th Aviation Company (the "Black Cats") and the 271st Aviation Company (the "Innkeepers"), is the only CH-47 unit in Korea. With its 32 CHINOOKs, it provides

... "American soldiers in Korea, there on a remote tour, contribute to the challenge for leaders and soldiers alike."

the medium lift capability for combat support and combat service support of numerous operations.

52d CAB

The 52d CAB, commanded by LTC Steven A. Raho III, consists of the 128th Aviation Company (the "Tomahawks") and the 201st Aviation Company (the "Red Barons"), each equipped with UH-60 BLACK HAWKS, for air assault capability. The 52d also contains the 55th Aviation Company (the "Dragons"), equipped with

UH-1s and C-12s, which provides support to the entire theater.

One of the 55th's more interesting missions is to fly United Nations observers along the Demilitarized Zone (DMZ). The pilots who "fly the fence" have to be able to navigate the entire DMZ corridor system without reference to maps.

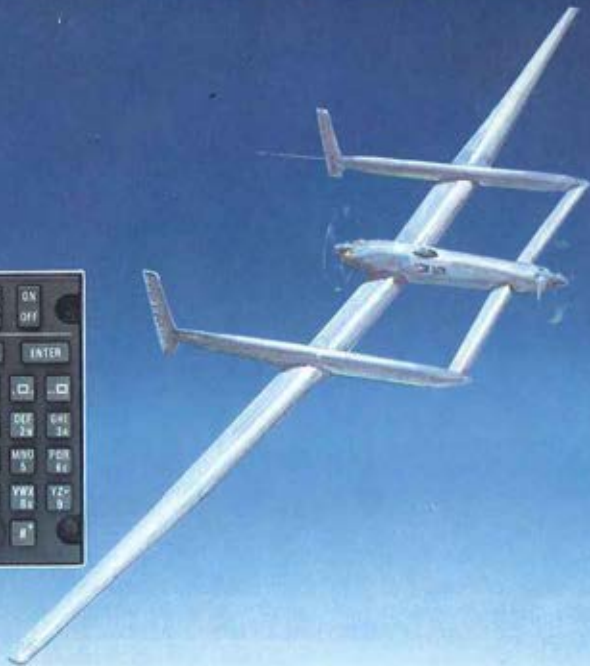
ATC

The 4th Battalion, 58th Aviation, commanded by LTC Sterling B. Crawford, just recently was redesignated as one of the first aviation units in the Army's regimental system. It serves as the only Army air traffic control (ATC) organization in the theater. The 4/58 has elements spread throughout the peninsula, operating in conditions from regular control towers to

remote mountaintop installations. The battalion operates the only instrumented Army airfield in Korea, A-511 at Camp Humphreys. The 4/58 is pioneering the integration of tactical Army ATC into the airspace management system.

309th AHB

In September 1987, the 309th Attack Helicopter Battalion commanded by LTC William D. Parson, will come on line as the first Army of Excellence (AOE) aviation unit in Korea. The **(Frontier — cont. on p. 18)**



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The lightweight, compact KNS 660 is the same system used by Voyager on its recent record-breaking flight around the world. After an uninterrupted 25,012 miles in the air and nine days of continuous operation, Voyager's KNS 660 was still delivering precision navigation.

The KNS 660 is also a multi-sensor nav

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Allied-Signal Aerospace Company



Frontier — cont. from p. 16

battalion has trained hard and worked hard to reach the high standards of excellence demanded by the ever-present threat in Korea.

In addition to its role within EUSA, the 17th Group has a warfighting role of supporting the ROK/US Combined Forces Command (CFC). Because the ROK Army's aviation force is still small in comparison to the overall size of the Army, the 17th Group, sufficient to support a corps-sized force by US standards, will be called on in the event of wartime to provide at least half the aviation support to a 10-corps-sized command. Thus, interoperability with the ROK Army and extremely high standards of training are vital.

Combined Aviation Forces

Perhaps the keystone of the 17th CAG's contribution to the combat capabilities of friendly forces in Korea is its participation in the development of the Combined Aviation Forces (CAF). The CAF, which is formed for major exercises or in the

event of open hostilities, and is commanded by a ROK Brigadier General, combines the 17th CAG with much of the utility (UH-1) and attack (500MD) assets of the 1st (ROK) Aviation Brigade.

When formed, the CAF functions as an independent subelement of CFC's Ground Component Command. It is organized along national lines with three task forces. Task Force (TF) 31, based on the 31st (ROK) Aviation Group, combines Korean attack and lift units. Task Forces 19 and 52 are based around the two American battalion headquarters, and are task-organized as required for mission.

Strengths maximized

In this way, the strengths of each nation's aviation forces (light utility and attack for the ROK; utility and medium lift for the US) complement each other, while minimizing the other's weaknesses. For a particular mission, the controlling headquarters is given ROK and US assets as necessary to accomplish the task.

One of the continuing train-

ing events the 17th uses to develop its combined warfighting capabilities is the combined ROK/US Airmobile Training Program. Each week, elements of the group, along with units of the 1st (ROK) Aviation Brigade, support air assaults conducted by ROK Army ground forces.

These missions run from daytime company insertions to regimental assaults conducted under night vision goggles, and provide valuable training for planning staffs and aircrews alike. They achieve unity of command by placing ROK and US aviation assets under one responsible commander.

The 17th Combat Aviation Group is the heir to a proud combat history dating from the Vietnam War. It now serves in an area where the peace could be shattered as suddenly as it was that rainy morning of June 25, 1950. It is against this possibility that the 17th Group must constantly train. Freedom's Eagles, in their vigil along freedom's frontier, stand ready to do their part, whether to preserve the peace or to win the war. IIII

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Automotive Subsystem Reliability*	Purchase Description Requirements	LAV-25 IPT Customer Results
Mean miles between mission failure	1250	5700
Maintenance Ratio (Organizational) (Intermediate)	.30 .08	.15 .01
Mean Time to Repair (Organizational)	1.3 hours	.61 hours
Tasks above organizational level	< 20%	1%
Availability	80%	96%
Operating cost-per-mile Automotive Subsystem excluding weapon station	not stated	\$1.92

*Calculations by General Motors based on RMM-D data for LAV-25 automotive subsystem. Details available on request.



LAV-AT

LAV-25 Air Transportability

CSA	
C17A	
C141	
C130	
CH53E	

*Based on Aircraft Manufacturer's calculations.



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Training:

UH-60 Flight Simulator Fielding

by Major (P) Henry Scheuer



ORLANDO, FL — An exciting, sophisticated new training capability has just entered the Army inventory. On the 9th of July the first production UH-60 Flight Simulator (UH60FS) was placed in training at Ft. Rucker, AL, replacing the UTTAS trainers

MAJ (P) Scheuer is Assistant Product Manager, Black Hawk Flight Simulators.

familiar to all UH-60 BLACK HAWK pilots. When fielding is completed in 1990, a total of seventeen UH60FS will be training Army Aviators worldwide.

Replica of the UH-60A

The UH60FS is a full six degree freedom of motion flight simulator which replicates UH-60A production aircraft 82-23748 in cockpit design, flight characteristics and External Stores Support System (ESSS) capabilities. Three channels of textured digital image generated visual are provided with a long list of impressive new training capabilities. The largest tactical training visual gaming area ever developed for any U.S. Army

flight simulator provides 80x100 square kilometers of mapped training area. Terrain flight training, including nap-of-the-earth, can be conducted under day, night and AN/PVS-5 night vision goggle visual conditions. Addition of a generic "roll-on" terrain makes it possible to fly 1900 nautical miles in any direction from visual gaming area center without resetting the system.

For instrument training, a 512 square nautical mile instrument gaming area is provided. Ft. Rucker's Worldwide Software Support Branch will optimize the instrument training area for each fielding location.

Following delivery of the third device in January 1988, the delivery schedule will accelerate to one device every two months through the life of the program.

Updates Planned

Updates are planned to insure that all simulators remain in configuration with the design aircraft, to enhance their training capability, and to field additional specially modified simulators. The first of these updates will occur in January 1988 when an improved software load will be put in the three fielded simulators; thus, providing the latest improvements to the visual system and tactical instructional systems.

Significant enhancements which will follow include a visual gaming area with instructor variable start point and destination elevations, designed to permit high altitude (up to 20,000 feet MSL) operations, and a modification to the visual gaming area night capability to enable training with the new Aviators Night Vision Imaging (Simulator — cont. on p. 22)

Flight Simulator Fielding Locations

Ft. Rucker (2)	Korea (2)
Hanau	Hawaii
Illesheim	Ft. Ord
Ft. Lewis	Ft. Stewart
Ft. Bragg	Ft. Riley
Ft. Hood	Ft. Carson
Alaska	Ft. Campbell (2)

VISUAL GAMING AREA FEATURES

80 x 100 KM with "roll-on" terrain
Large lake for overwater training
Two airfields within gaming area
49 selectable FARRP locations
9 marshalling areas
6 pinnacle landing areas
32 falling flare locations
Random cultural lighting
Variable speed ownship rotor
Sun glint
5 sling loads (TOW jeep, AH-64, concrete, block, fuel bladders, MILVAN)

99 target sites

- 10 active at one time
- some target tracks provided
- 20 are moving targets
- maximum of 3 active moving targets in visual scene

Enemy weapons effects

- ownship impact
- muzzle flash
- near miss explosion

Ownship landing and search lights



TRACOR TACTICAL OMEGA/VLF NAVIGATION

AN OFF-THE-SHELF SOLUTION

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Today, the long range and regional navigation requirements of U.S. Army operators are met daily by the Tracor AN/ARN-148 Navigation System on board CH-47D, UH-60A, and C-12 aircraft.

The Tracor AN/ARN-148 provides operators with pre-programmable flight plans and waypoint entry by IDENT, LAT/LONG, or UTM grid coordinate. An optional 60,000 waypoint data base includes a 28-day revision service. ANVIS-compatible and designed for growth to DME/Tacan and NAVSTAR GPS, the Tracor AN/ARN-148 has set new standards for off-the-shelf solutions to mission requirements.



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Simulator - cont. from p. 20

System (ANVIS). Meanwhile, the simulator cockpits are being fielded with the ANVIS cockpit compatibility modification (blue-green lighting) already installed.

Modified Simulators

Specially modified simulators will include an Aeromedical Research UH60FS and a special operations aviation MH-60K Flight Simulator (MH60KFS). The Aeromedical Research UH60FS is under

contract for release at the U.S. Army Aeromedical Research Laboratory (USAARL) at Ft. Rucker in November 1988.

A sophisticated temperature and humidity environmental control system, plus addition of a large data gathering/processing capability will give USAARL the capability to conduct critical research on some of our Army Aviation Branch volunteers in areas including chemical agent antidote testing and crew rest.

Recent approval has been provided to initiate acquisition of an MH-60K Flight Simulator.

Scheduled to be fielded at Ft. Rucker concurrently with the Army's new MH-60K helicopters, this simulator will provide critical transition and mission training not otherwise available in support of Special Operations Aircraft crew training.

Major Step Forward

The UH60FS represents a major step forward in training capability for Army Aviation and is part of the Army's efforts to keep Army Aviation "Above the Best".

IIII

"This improvement...uses Consumable Electrode Vacuum Melt Steel instead of the current Air Melt Steel (same alloy) for improved fatigue characteristics."

AH-1 COBRA Swashplate Improvement

by Colonel John N. Bertelkamp

ST. LOUIS, MO — The AH-1 COBRA Project Manager's Office, with assistance from AVSCOM Engineering and Bell Helicopter Textron, Inc., has been investigating methods to improve the service life, reliability and maintainability of the AH-1 swashplate. As a result of these efforts, the COBRA Project Manager's Office and Bell Helicopter Textron have identified an interim improvement to the existing swashplate bearing which is estimated to provide at least a fifty percent increase in bearing endurance life.

This improvement, which has been implemented via a Class 2 engineering change, uses Consumable Electrode Vacuum Melt Steel instead of the current Air Melt Steel (same alloy) for improved fatigue characteristics, due to fewer impurities in the material, and applies high den-

sity chrome plating to the bearing races for a harder wear surface. This type of improved bearing is already in use in both commercial and military applications.

The improved bearings should be available for use within less than a year and will, on an attrition basis, replace the current AH-1 swashplate bearing. It is expected that this change may increase the interval for lubrication and grease sampling, and may eliminate the grease sampling entirely.

A Product Improvement Program (PIP) to modify the existing design with a new larger bearing and improved lubrication and adjustment capability has been initiated. Development of this improved design could begin in FY88 and fielding should begin in early FY91.

IIII

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The result is exceptional reliability and accuracy to increase the utilization of your vehicle and minimize cost of ownership.

The VG-401 operates from a 28VDC \pm 4VDC input and has two potentiometer outputs, one for roll and one for pitch.


An attitude reference of -360° in roll and $\pm 85^\circ$ in pitch is also standard, and the case design can be tailored to meet specific mounting requirements.

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Designed to MIL-E-5400 and MIL-STD-454, the new VG-401 joins with J.E.T. Servo Actuators, Autopilots, and Power Conversion devices to help in your RPV/Drone design programs.

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Hardware:

What is the Mission Equipment Package?

by Lt. Colonel Arnold E. (Sandy) Weand



velocity, the navigation equipment will provide route selection and aid in flight control and fire control solutions. A digital map will provide real time situational awareness, depicting aircraft, threat and friendly locations.

ST. LOUIS, MO — The first Aviation Mission Area Analysis in 1982 reported the current light fleet is tactically obsolete. Two reasons for this obsolescence are that the fleet is not survivable on tomorrow's battlefield and is ineffective during adverse weather and night.

Thus, a major thrust of the LHX program in overcoming these deficiencies is the Mission Equipment Package (MEP). What is MEP? What will it do for the Army aviator?

MEP is equipment, i.e. equipment package; however, LHX MEP is the integration of this equipment, and the integration of all input (that's called sensor fusion) to this equipment into one area, the Very High Speed Integrated Circuits (VHSIC) processor. This integration from the equipment point of view minimizes weight and cost by using common sensor and processor modules for more than one function, which is neat stuff for the engineers. For the LHX aviator, this integration will result in the VHSIC processor aiding you in the recognition of a target, picking a route of flight which bypasses known threat positions, automatically transferring functions to another module when battle damage or faults occur,

LTC Weand is Logistics Staff Officer, LHX Project Manager's office, U.S. Army Aviation Systems Command, St. Louis, MO. The author wishes to thank Mr. Wayne Morton for his technical assistance and Mr. Gene Walk for his artwork.

displaying all critical flight parameters on a helmet mounted display, and having voice activated capability to tune radios and arm weapons systems.

MEP Examined

MEP can be divided into five major areas:

"For the LHX aviator, this integration will result in the VHSIC processor aiding you in the recognition of a target, picking a route of flight which bypasses known threat positions... and having voice activated capability to tune radios and arm weapons systems."

• **Communications, Navigation, Identification:** Communication capabilities include communication with aircraft from all services, as well as ground units and allows target or information hand over, position reporting, IFF and non-line of sight communication. For navigational accuracy, LHX will use external inputs from satellites, a map data base, and a self contained navigation capability.

In addition to location, absolute altitude, altitude above terrain and precise heading and

• **VHSIC Processors:** The heart of the LHX and MEP is the sophisticated, lightweight, and highly reliable VHSIC processing system. This fault and battle damage tolerant multi-processor system consists of signal and data processors, memory modules, and power supplies. A Tri-Service, Common Advanced Avionics Architecture defines the

functions, partitioning, elements, and rules for interfaces. LHX MEP will operate on Ada (software language).

• **ASE:** LHX will integrate passive and active aircraft survivability. Passive measures include radar, laser, and chemical sensors that warn the aviator so evasive or aggressive actions can be taken. Active measures such as radar and infrared jammers will counter the threat. Aircraft Survivability Equipment (ASE) sensors will be embed-

“LHX MEP is a long way from grease pencil crosshairs on the windshield of a B or C model gunship.”

ded in the advanced avionics architecture using sensor fusion for timely identification, acquisition, cueing, mapping, and prioritization of threat targets.

• **EOTADS:** The Electro-Optical Target Acquisition and Designation System (EOTADS) is a stabilized turret Forward Looking Infrared, TV camera, laser rangefinder/designator, with a laser spot tracker and boresight module. It provides long range search, acquisition,

tracking, and designation of targets. In conjunction with the VHSIC processors, it provides aided target recognition, fire control solutions, and weapons pointing commands in day/night and adverse weather.

• **NVPS:** The Night Vision Pilotage System (NVPS) will allow the aviator full mission capability, day and night, through a spatially relevant (view changes relevant to his head movement) wide field of view display.

Sensor and aircraft data will also be visible on this helmet-mounted display which allows heads-up, eyes out flying, greatly enhancing operational capability.

LHX MEP is a long way from grease pencil crosshairs on the windshield of a B or C model gunship. With diligent cooperation between the combat and materiel developer and the industry teams, LHX will field the most advanced MEP in the services for the 21st century.

IIII

LHX  LHX SCAT NOTIONAL MEP FUNCTIONS

COMMUNICATIONS

- *VHF-FM(2) (SINCARS)
- *VHF-AM
- *UHF-AM (Have Quick)
- *HF-SSB
- IFM
- Auto Target Hand-Off
- *EPUU(P)
- Voice Security
- Digital Audio System
- *IFF
- IFF Security

ASE

- *RFI (SCAT)
- *RF Jammer
- *Laser Warning
- *Radar Warning (Assault)
- IR Jammer
- Point Chemical Detectors

NVPS

- Helmet Mounted Display
- FLIR
- (Image Intensification)

NAVIGATION

- *Global Positioning System
- Radar Altimeter
- Digital Map
- Inertial Reference System
- Doppler
- Air Data Sensors

VHSIC PROCESSORS

- Data Processors
- Signal Processors
- Bulk Memory
- Interfaces

OTHER

- Flight Data Recorder

COCKPIT

- Cockpit Display Systems
- Keyboard(s)
- Data Loader Verifier

EOTADS

- TV
- 2nd Generation FLIR
- Laser Rangefinder/Designator
- Laser Spot Tracker

P = Provisions

* = Functions Included in ICNIA/INWS

Maintenance:

USAALS: Supporting the Force

by Colonel Thomas M. Walker



FT. EUSTIS, VA — Our mission at the Aviation Logistics School (USAALS) is to Support and Sustain the force known as Army Aviation. Success in this mission depends upon excellence today and flexibility to keep pace with change. We at USAALS are proud of our track record and enthusiastic about our role in the future.

New School Crest

In July, we officially received our new school crest. This crest symbolizes our membership in the Aviation community, as well as our rightful status as a major school in TRADOC. The motto — "SUPPORT AND SUSTAIN" — inscribed upon its scroll serves as a constant reminder of our mission — a mission we strive to accomplish. As we enter our fourth year of existence as the Army's only Aviation Logistics School, a major milestone in our history has recently been accomplished. On October 22, we were incorporated into the Aviation Regimental System when the 1st Battalion, 8th Transportation Brigade was redesignated as the 1st Battalion, 222nd Aviation Regiment.

We are indeed proud of these events, but they are only outward symbols of who we are and what we do. We support the force by

producing and sending field units the best trained soldiers, the best doctrine and procedures, and the best equipment possible. Permit me to discuss some examples of how we meet these challenges.

Maintenance Component

The maintenance officers, the maintenance supervisors, the technical inspectors, and the soldiers that maintain most of the Army's aircraft are products of USAALS training. Our staff — both civilian and military — take pride in the professionalism that goes into that training.

"We support the force by producing and sending field units the best trained soldiers, the best doctrine and procedures, and the best equipment possible."

We are fortunate to be working with instructors and students of the highest caliber, but that is only part of the equation. We use state-of-the-art training aids, such as computerized composite trainers and sophisticated panel training devices to maximize the effectiveness of instruction. These tools help us give the stu-

dent more hands on experience, while keeping the cost of training down.

Additionally, we have incorporated field training exercises into most of our classes to expose the soldier to performing maintenance tasks under field conditions. The result is a better trained aviation soldier for active, reserve, and national guard units.

We also provide direct support to units in the field. Our primary vehicle to accomplish this is the Branch Training Team (BTT). Ongoing since 1979, the BTT provides training information and assistance to the field and gathers feedback concerning the effectiveness of training and training support products.

Working with active and reserve units worldwide, the BTT is tailored to the needs of the units being visited. As members of the Aviation Center's Aviation Resource Management Survey (ARMS) team, USAALS conducts inspections of maintenance activities around the globe.

Future Efforts

In addition to efforts to better support today's forces, we are involved in a number of ongoing projects to help sustain and improve support in the future. Doctrine, training, force design, and equipment improvements are constantly scrutinized to incorporate new developments in the most effective manner.

We are presently engaged in a study to assess the impact of implementing a two-level maintenance system to support the current aircraft fleet. The study is designed to determine the optimal and feasible levels of maintenance required and will (USAALS — cont. on page 28)

COL Walker is Assistant Commandant U.S. Army, Aviation Logistics School, Ft. Eustis, Va.

*“How hot
was it?”*



*“Over 104... and we were haulin’
Howitzers out of a real tight LZ.
No OADS either, so we never
knew if we had enough power.”*

Pacer's Omnidirectional Air Data System (OADS) measures air-speed . . . at *all* speeds . . . in *all* directions. By providing computerized feedback for navigation, fire control and flight control systems, OADS answers the needs of the next generation in helicopters. OADS is currently in use aboard the AH-64 Apache and HH-65A Dolphin. For more information, call Charlie Brown at (617) 667-8800.



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USAALS - cont. from p. 26

impact upon future doctrine, force structure and equipment, training, and maintenance and supply management procedures.

Multiplying Combat Power

Other USAALS projects aimed at multiplying combat power of the aviation force include Aircraft Combat Maintenance/Battle Damage Repair (ACM/BDR) and the Unit Maintenance Recovery Kit (UMARK). These programs will speed the return of aircraft to combat operations. Enhanced management and troubleshooting are among the benefits we expect from the Predictive Aircraft Maintenance System (PAMS), a prog-

nostic and diagnostic expert automated system.

Improved equipment and doctrine are worthless without properly trained soldiers. We are constantly developing new training programs and exploring improved techniques of ensuring that our soldiers receive the best training possible.

Interactive Videodisc

One technique that appears most promising is the Interactive Videodisc (IVD). This is a Classroom System Trainer (CST) that, by design, is user friendly and exportable to field units when the need arises. Contractor development of three IVD programs is ongoing with completion scheduled for third Quarter FY89. The potential for application to all weapon

systems is enormous.

Emerging Technologies

Further in the future, we are keeping an eye on emerging technologies that will impact on Army Aviation. Artificial intelligence and automated systems, light weight composite materials, high speed integrated circuitry, IVD technology, and better training devices are areas in which we see the greatest impact occurring.

Our continued dedication to improve the ways in which we Support and Sustain the force now and in the future will ensure Army Aviation a place "Above the Best." USAALS is proud of the role it plays in developing aviation logistics strategy for our Army. IIIII

We've Moved...



Army Aviation Association of America and Army Aviation Magazine are now at 49 Richmondville Avenue, Westport, CT 06880-2000. Our telephone number has stayed the same: (203) 226-8184.



The Collins CP-1516/ASQ Automatic Target Handoff System (ATHS) helps ensure clear, quick, C³I communications. It facilitates air/air and air/ground interoperability, and provides target steering cues on HUDs or CRT displays.

Instead of vulnerable voice communications, Collins ATHS uses digital data bursts to minimize jamming and to reduce enemy detection while speeding the transfer of accurate battle information.

The system uses any MIL-STD-1553B or ARINC 429 transceiver to resolve target location and exchange target information between force elements. It's totally transparent to the system architecture.

NEVER SAY 'SAY AGAIN' AGAIN. COLLINS ATHS.



ATHS provides data for such HUD symbols as target I.D., range and steerpoint.

Now flying on U.S. Army OH-58D and AH-64s, the 10 lb. Collins ATHS can be easily integrated into aircraft and ground vehicles. And it's interoperable with TACFIRE and the Battery Computer System.

For more information contact: Collins Government Avionics Division, Rockwell International, Cedar Rapids, Iowa 52498. (319) 395-2208. Telex 464-421 COLLENGR CDR.

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Operations:

Golden Eagle 87: A Test of the AOE

by Colonel Jacob B. Couch, Jr.



FT. CAMPBELL, KY — On February 17, 1987, the skies over central Kentucky and Tennessee were filled with the sounds of over 300 helicopters as 18,000 Screaming Eagles of the 101st Airborne Division (Air Assault) embarked on the division's largest peacetime Air Assault exercise since REFORGER 1976.

"Golden Eagle 87" was designed by MG Burton D. Patrick, the 101st Airborne Division Commander, to not only provide a tough, realistic training scenario but also to test and shake out the division's new "Army of Excellence" (AOE) force structure. The Division's Aviation Brigade, which was significantly affected by the AOE restructuring, was charged with moving

COL Couch is Commander, Aviation Brigade, 101st Airborne Division (Air Assault), Ft. Campbell, KY.

the division's three infantry brigades, DIVARTY, and DISCOM in a series of air assaults which lasted through the 12th of March, a period of over three weeks.

Largest Divisional Brigade

The Aviation Brigade, 101st Airborne Division (Air Assault) is the U.S. Army's largest divisional Aviation Brigade. Consisting of eight aviation battalions and an HHC, the brigade has 63 AH-1s, 78 OH-58s, 100 UH-60s, 48 CH-47Ds and 41 UH-1s.

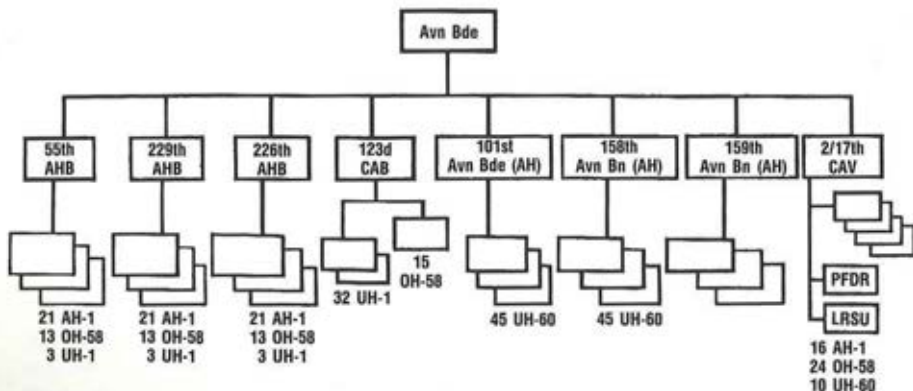
The brigade has an authorized strength of over 2900 soldiers to manage, crew, and fly these assets.

"Golden Eagle 87" was a true test of the capabilities of the Aviation Brigade. Flexing its wings for the first time under

Army of Excellence, both the strengths and limitations of its structure were proven. The brigade objectives for the exercise included training units to division battle task standards in support of current contingencies, testing the command and control of aviation assets within the division, and providing both realistic and demanding training which would give aviation units the opportunity to integrate themselves into the combined arms team.

Test of Contingency Plans

The concept of the exercise called for the division to deploy to a number of civilian and military training sites within a 150 nautical mile radius of Ft. Campbell and, from there, to seek to test its ability to perform a number of its wartime contingency plans. The distances involved presented a realistic challenge to the Aviation Brigade for tactically employing aviation in support of ground & air maneuvers. However, as always, logistics, maintenance, command and control, and (Eagle — cont. on page 32)



Personal Affairs CHECKLIST

INSTRUCTIONS: Read the checklist below carefully and be sure you have taken care of these important matters.

- Store important papers and records in one centralized safe place with easy access. Don't risk moving them every time you PCS.
- Set up an annual report listing all benefits payable from various sources to each family member. Use as a start point for estate planning.
- Make sure your family has aid in claiming insurance proceeds and government benefits in the event of death or disability.
- Find an authority on all government benefit programs—VA, Social Security, Survivor Benefit Plan and SGLI—an Association which stays current and can quickly answer the questions that you or your family have.
- Look for an Association to monitor all claims and benefits, whether they be life insurance proceeds or government benefits such as VA Dependency and Indemnity Compensation, or Education Assistance.
- Join the Army and Air Force Mutual Aid Association. We do all of the above and much more . . . We have been around since 1879 and serve both Army and Air Force Officers. We will help you and your family take care of your personal affairs, and will offer reliable unbiased counsel and information on all insurance and estate planning matters.

There's no time like the present to become a member of the Association. For more information call toll free 800-336-4538/in Virginia (703) 522-3060, or fill out the coupon below.

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Rank _____ Soc. Sec. No. _____

Street _____

City _____ State _____ ZIP _____

Phone (work) _____

Phone (home) _____

- Nonsmoker Smoker



Eagles - cont. from p. 30

communications would prove the key to success or failure.

The exercise scenario was developed around the deteriorating economy in a neighboring (notional) country, a U.S. ally where guerrilla and conventional forces were used to undermine the friendly government's natural resource base. Their inability to maintain law and order required both the use of military force and assistance by the U.S. to protect the lives of U.S. citizens and allies.

Five Phase Operation

Golden Eagle was a five phase operation. Phase I consisted of aviation units being alerted and prepared for deployment. Phase II saw the brigade deploy from Ft. Campbell, KY, to an Intermediate Staging Base (ISB) 120 nautical miles to the south at Tullahoma, TN. Phase III called for the Aviation Brigade to support the insertion of two infantry brigade task forces as well as establishing several Forward Area Rearm and Refuel Points (FARRPs). Phase IV continued with the division's insertion into the Forward Operating Base (FOB) and Phase V called upon the Aviation Brigade to support follow on operations, destroy enemy forces, restore order and assist in peacekeeping operations as far north as Ft. Knox, KY, 115 nautical miles northeast of Ft. Campbell.

Smooth Transition

Phase I, being relatively simple, went without a hitch and smoothly transitioned to Phase



Attack Battalions provided route security and screened the air assaults.

II with the establishment of Tullahoma as the Intermediate Staging Base. The Aviation Brigade not only completed a self-deployment of its aircraft and headquarters to the ISB, but also accomplished a massive air assault operation of the 1st and 2nd Infantry Brigades by UH-60 and CH-47D to Assembly Areas in the vicinity. The Aviation Brigade then prepared for the thrust back to the FOB.

Air Assault

In the early morning hours of darkness on February 24, Phase II commenced with the Aviation Brigade conducting an Air Assault of the 101st Airborne Division (Air Assault) to link up with a battalion of the 82nd Airborne Division which had parachuted in and established the FOB a day before. The next 48 hours would determine if the brigade could meet the tremendous demand of a division sized air assault!

By the end of the day on the 24th of February, the 2nd Brigade had been moved for-

ward. Within nine hours, 1,053 personnel and 144 external loads had been transported the 120 nautical mile distance. Four FARRPs were established and 63,000 gallons of fuel were moved to the FOB to accomplish the mission. Internal fuel tanks aboard specially configured CH-47D aircraft were used to sustain the operation until the FARRPs were functional with 500 gallon blivets.

The 2nd Squadron, 17th Cavalry, and the 55th Attack Helicopter Battalion were placed under divisional control in order to establish a screen around the FOB and deny enemy penetration of the area. The remainder of the aviation battalions were involved in the airlift and its security under Aviation Brigade control.

Grueling Assault Mission

The 25th of February saw the 1st Brigade move forward in another grueling air assault mission which would move 928 personnel and 103 external loads. While the 101st, 158th and 159th Aviation Battalions moved peo- (Eagles — cont. on page 48)

**The
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ROSTER CODE

Last Name, First Name, MI (Title)
(First Year AAAA Membership)
(Nickname)
Address
Duty Phone Number
Residence Phone Number
Name of Spouse
Date of Birth (excluding year)

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Years at Current GS Grade
Colleges Attended and Degrees
Previous Military Service
Years of Active Service
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CAMPBELL, Bobbi, (MS.) (M82) (Bobbi) 256 Third Street, Fair Haven, NJ 07701. Dy: (201) 544-2781. Res: (201) 842-3243. B: Aug 8. Job: Administrative. USA AVRADA. GS: 9. Educ: Monmouth JC, AA.

CAMPONOV, Elmo, (MR.) (M84) 4409 Sherwood, Corpus Christi, TX 78411. Dy: (512) 939-3806. Res: (512) 855-0859. W: Mildred. B: Apr 6. Job: Engine OH Gen Foreman, WC 50C20, CCAD. Educ: Estn New Mexico, Del Mar Colleges, Assoc.

CANALES, Antonio L., (MR.) (M85) (Tony) 1023 Northcliff, Portland, TX 78374. Dy: (512) 939-3269. Res: (512) 843-8247. W: Ernestina. B: Oct 11. Job: WC4MA80 X3269 C/Critical Item Sec. GS: 11. 3 yrs. Educ: Corpus Christi St. U, BA. Svc: USN. 6 yrs.

CAPELL, Henry F., (MR.) (M82) (Hank) 6 Sky Harbor Court, Toms River, NJ 08757. Dy: (201) 544-4806. Res: (201) 244-3795. W: Cecilia. B: Oct 22. Job: AVRADA. GS: 12. 3 yrs. Educ: NYU, ME. Svc: USA. 3 yrs.

CAPPEITA, Fred E., (MR.) (M76) 1582 Langhollow Drive, Florissant, MO 63031. Dy: (314) 263-1021. Res: (314) 921-0319. W: Linda. B: Nov 21. Job: Chf R&D Resource Analysis Div, A, Div sysr dir. GS: 15. 7 yrs. Educ: U of Il, BS; Webster Coll, MA. Svc: USMC. 2 yrs. AHS.

CARNEY, Shirley R., (MS.) (M81) (Shir) 10316 Earl Drive, St. Louis, MO 63136-5916. Dy: (314) 263-3341. Res: (314) 867-7195. B: Dec 3. Job: Supply Cataloger, AVSCOM. GS: 7. Svc: USA. 1 yr.

CARR, Gerald T., (MR.) (M83) (Jerry) P.O. Box 81325, Corpus Christi, TX 78412. Dy: (512) 939-3513. Res: (512) 992-7767. B: Apr 4. Job: NDT Inspector, CCAD. GS: 11. 4 yrs. Educ: U Of Houston, BS

CARRION, Ignacio R., (MR.) (M82) (Joe) 3714 Marion Street, Corpus Christi, TX 78415. Dy: (512) 939-3898. Res: (512) 854-4129. W: Angelita. B: Oct 4. Job: Acrt Engr Repairer/ Mech, CCAD. Educ: Del Mar Coll. Svc: USAF. 3 yrs.

CASAS, Ramiro, (MR.) (M83) (Ram) 5805 Crestgrove, Corpus Christi, TX 78415. Dy: (512) 939-2932. Res: (512) 854-0251. W: Margarita. B: Sep 8. GS: 8. 3 yrs. Educ: Del Mar, Assoc Appl Sci. Svc: USA. 2 yrs.

CHAMBERS, Henry R., (MR.) (M66) 208 Hillcrest Avenue, Neptune, NJ 07753. Dy: (201) 544-4089. Res: (201) 776-8838. W: Louise. B: Oct 19. Job: Resource Mgr, USA AVRADA. GS: 14. 5 yrs. Educ: Tulane U, BSEE; U of Pa, MSEE. Svc: USA. 2 yrs.

CHANEY, Watson T. Jr., (MR.) (M86) 404 Brentwood Drive, Madison, AL 35758. Dy: (205) 876-1689. Res: (205) 772-9036. W: Janell. B: Sep 24. Job: Chf, Tech Staff Otc, USA MICOM. GS: 14. 1 yrs. Educ: Valdeista State Coll, BBA; U of AL, MAS. Svc: USAF. 4 yrs.

CHAPMAN, Carolyn L., (MRS.) (M79) 11834 Larry Road, Fairfax, VA 22030-5746. Dy: (202) 697-0487. Res: (703) 273-6026. H: Mal. B: Dec 17. Job: Avn Prog Spec, HODA, ODCSLOG, Wash DC (DAC Awardee '83). GS: 11. 6 yrs. 27 yrs.

CHECKWICK, Donald P., (MR.) (M87) 5825 Cinnamon Tree Lane, St. Louis, MO 63129. Dy: (314) 263-1986. Res: (314) 467-0728. W: Patricia. B: Jul 13. Job: AMCPM-AAH, TP-TM. GS: 11. Educ: LA State U, BS; Webster Coll, MS.

CHILDS, William C., (MR.) (M85) (Bill) 1428 Clairmont Road, Decatur, GA 30033. Res: (404) 696-6414. B: Jul 18. Job: Prog Analyst, Flying Hr Prog, Avn Div, HQ FORSCOM. GS: 12. 8 yrs. Educ: U of AL, BA.

CHING, Donna M., (MS.) (M87) 2925 Scarsdale Manor Dr., St. Charles, MO 63303. Dy: (314) 263-1406. Job: Budget Analyst, Comptroler, AVSCOM. Educ: Webster Coll.

CHOMSKIS, Pat M., (MRS.) (M87) (Pat) 11621 Francetta Ln, St. Louis, MO 63138. Dy: (314) 263-3201. Res: (314) 741-3672. H: Roman. B: Oct 29. Job: Program Analyst, SEMA PM. GS: 13. 4 yrs. Educ: Columbia, BS.

CHOMSKIS, Roman L., (MR.) (M87) 11621

Franchetta Ln, St Louis, MO 63138. Dy: (314) 263-2421. Res: (314) 741-3672. W: Patricia B. Feb 25. Job: Supv Equip Specialist-ACFT AVSCOM, D/Maint AMSAV-MDDP. GS: 13. 3 yrs. Educ: U of Utah, MBA. Svc: USA. Ret: 80. 28 yrs.

CLARKE, John P., (MR.) (M78) 83 Forestcrest Drive, Chesterfield, MO 63017. Dy: (314) 263-1911. Res: (314) 469-7541. W: Deanna B. Oct 25. Job: Deputy PM, AH PM, AMC. GS: ES. 3 yrs. Educ: NC State, BME. AHS.

CLEATOR, John D., (MR.) (M83) (Dann) 12210 Rollingford Drive, Florissant, MO 63033. Dy: (314) 263-9390. Res: (314) 355-1407. W: Margaret. B: Nov 1. Job: Equip Spec, Dir Maint, TROS-COM. GS: 11. 7 yrs. 21 yrs.

COHEN, Howard P., (MR.) (M66) 9608 Riddle Road, Chesterfield, VA 23832. Dy: (804) 734-3455. Res: (804) 748-7875. W: Janet. B: Oct 14. Job: Logistics Mgmt Spec, USA Logistics Center, Fort Lee. GS: 13. 13 yrs. Svc: USN. AUSA. Past Vp, Stuttgart Chapter.

COLEMAN, Henry L., (MR.) (M87) (Hank) 3636 Ashley Road, St. Ann, MO 63074. Dy: (314) 263-3485. Res: (314) 423-6840. W: Marianne. B: Aug 29. Job: AVSCOM AMSAV/SDDXA. GS: 12. 5 yrs. Educ: Clinton U, BS. Svc: USA. 30 yrs.

COLEMAN, Rosalie L., (MS.) (M63) (Rosie) 5243 Helen Avenue, St. Louis, MO 63136. Dy: (314) 263-1465. Res: (314) 381-0802. B: Dec 7. Job: AVSCOM, AMCPM-ASE-LM GS: 13. 2 yrs.

COLLIE, George H., (MR.) (M87) 105 Morningdove Way, Dothan, AL 36303. Dy: (205) 255-3132. Res: (205) 792-0945. W: Eleanor. B: Jul 27. Job: Air Traffic Control Specialist. GS: 12. 5 yrs. Educ: Troy State U, BS Svc: USAF. Ret: 76. 30 yrs.

CONFIDES, James J., (MR.) (M86) (Jim) 3550 Julian Circle, Lexington, KY 40503. Dy: (606) 293-4277. Res: (606) 223-1349. W: Ruthann. B: Feb 3. Job: Equip Spec, USAMC MRSA. GS: 13. 20 yrs. Educ: Lafayette, BS. Svc: USN. 2 yrs.

COOKSON, Joan F., (MS.) (M83) (Cookie) 3456 Dunnica Ave, St. Louis, MO 63118. Dy: (314) 263-2476. Res: (314) 865-2659. B: Sep 5. Job: PROC Bell Sys Div, USAVSCOM. GS: 11. 3 yrs.

COOPER, Celia Rae, (MS.) (M84) 1708 Pender Ave, Petersburg, VA 23803. Dy: (804) 734-1162. Res: (804) 861-5171. H: Michael. B: Feb 20. Job: USA Logistics Mgt Cr, Ft. Lee. GS: 11. 1 yr. AUSA.

COOPER, Charles R., (MR.) (M86) (Rick) P.O. Box 4584, Fort Eustis, VA 23604. Dy: (804) 878-6116. Res: (804) 878-6367. B: May 19. Job: Education Specialist. GS: 12. 2 yrs. Educ: Penn State, URI. Svc: USN. 8 yrs. Sec, Colonial Virginia Chapter.

COPPENS, David, (MR.) (M82) 111 Roger Rural Route 3, Collinsville, IL 62234. Dy: (314) 263-1440. Res: (618) 345-4625. W: Sue. B: Apr 13. Job: Log Mgr, CH-47, V22 PM Office. GS: 13. 5 yrs.

CORNELSON, Rita A., (MS.) (M83) 218 Portsmouth, Corpus Christi, TX 78418. Dy: (512) 939-2448. Res: (512) 937-2722. H: Steven. B: Jan 10. Job: Qual Assurance, CCAD. GS: 4. 5 yrs. Educ: Charles Jr Coll, Del Mar Jr Coll.

CRAWFORD, James C., (MR.) (M73) 12180 Kilbrock Drive, Florissant, MO 63033. Dy: (314)

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263-1012. Res: (314) 741-6721. W: Paddy. B: May 10. Job: Tech Dir, AVSCOM. GS: ES. 10 yrs. Educ: GA Tech, BS, MS. Svc: USAF. 5 yrs. AHS, AUSA. Past Sr, Lindbergh Chapter.

CREWS, Samuel T., (MR.) (M86) 6904 Washington, St. Louis, MO 63130. Dy: (314) 263-1800. B: Aug 27. Job: Dyn Team Leader, AVSCOM. GS: 14. 5 yrs. Educ: Wash U, BS, MS, DC.S. AHS.

CRIBBINS, Joseph P., (MR.) (M66) (Joe) 9025 Charles Augustine Dr, Alexandria, VA 22308. Dy: (202) 697-0487. Res: (703) 780-2605. W: Helen. B: Mar 14. Job: Spec Asst To DC Of Logis & Chl Avn Log Off, DALL-AD, Wash, DC. GS: ES. 18 yrs. Svc: USA. Ret: 66. AHS, AUSA. NEB. Past Pres, Washington DC Chapter.

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DANIELS, Thomas E., (MR.) (M77) (Tom) 1111 Army-Navy Drive, Apt. B504, Arlington, VA 22202. Dy: (202) 695-0781. Res: (703) 920-7851. W: Maxine. B: Nov 12. Job: Asst Dir Of Space, HD DA, Ofc Asst Sec Army, RDA. GS: ES. 3 yrs. Educ: Iowa, BSEE; Monmouth, MBA. Svc: USA. 3 yrs..

DASCZYNSKI, Warren M., (MR.) (M86) Westleria Arms Bldg 9, Apt. 6, Hightstown, NJ 08520. Dy: (201) 544-3520. B: Jul 22. Job: Integrated Logistics Supp Mgr, AVRADA. GS: 12. 2 yrs. Educ: Pratt Inst, BS.

DAVIS, Albert B.C., (MR.) (M64) (ABC) 11138 Glacier Drive, Creve Coeur, MO 63146. Dy: (314) 263-1218. Res: (314) 432-2247. W: Lee. B: Oct 22. Job: Deputy AMC Proj Mgt Off, AVSCOM. GS: 14. 14 yrs. Educ: UGC. Svc: USA. Ret: 61. 20 yrs. AHS, AUSA.

DAVIS, Laura R., (MS.) (M87) 22-8A Max Drive, Morrisstown, NJ 07960. Dy: (201) 540-9822. Res: (201) 724-6556. B: Aug 22. Job: Budget Analyst, AMCCOM, Pictanny Arsenal. GS: 7. 1 yr. Educ: Iowa State, BS.

DEAN, J.W., (MR.) (M83) 1054 Woodland Trail, Fenton, MO 63026. Dy: (314) 263-1708. Res: (314) 343-1272. B: Aug 5. Job: Logistics Mgr, Blackhawk, PMO, AVSCOM. GS: 13. 5 yrs. Svc: USA. 4 yrs.

DEES, James W., (MR.) (M87) (Jim) 900 Richmond Rd, Dothan, AL 36303. Dy: (205) 255-3148. Res: (205) 794-9509. W: Joyce. B: Jul 15. Job: Sr Ops Research Analyst, DODT. GS: 13. Educ: U of TN, PhD; Emory U, BA.

DEGEN, Rich A., (MR.) (M83) (Rich) Route 2, Deer Path Rd, Dothan, AL 36303. Dy: (205) 566-7270. B: Jun 29. Job: Mfg Rep. Educ: St Louis U, BS LLB. Svc: USA. 1 yr.

DEMERE, Howard, (MR.) (M81) 352 North Forsyth Blvd., St. Louis, MO 63105. Dy: (314) 263-1164. B: Dec 4. Job: PAO, AVSCOM. GS: 13. 6 yrs. Educ: U of OK, BA. AUSA. Vp, Lindbergh Chapter.

DIECKMANN, Tony J., (MR.) (M83) 2280 Thunderbird Drive, Florissant, MO 63033. Dy: (314) 263-2636. Res: (314) 837-7274. W: Joy. B: Nov 10. Job: Propulsion/Gen Items Team Ldr, AVSCOM. GS: 12. Educ: Florissant Comm Coll, AA Svc: USAF. 4 yrs.

DIX, Jacques W., (MR.) (M85) P.O. Box 403, 542 Big Oak, Ingleside, TX 78662-0403. Dy: (512) 939-2326. Res: (512) 776-3850. W: Irmi. B: Sep 6. Job: WC 36000, X2326, CCAD. GS: 11. 3 yrs. Educ: U of IL. Svc: USA, USAF. 1 yr.

DODD, David W., (MR.) (M72) 144 Bret Harte Drive, Newport News, VA 23602. Dy: (804) 878-2278. Res: (804) 887-0334. W: Virginia. B: Jun 30. Job: Chf Avn Instr, USA Trans Sch. GS: 11. 2 yrs. Educ: Kansas State U, BS. Svc: USA.

DODD, Ira Jr., (MR.) (M83) (Jack) 12791 Broadridge Lane, Florissant, MO 63033-4605. Dy: (314) 263-1200. Res: (314) 741-1767. W: Elizabeth. B: May 13. Job: Chf, Log Ass't Div, AVSCOM. GM: 15. 2 yrs. Educ: W TX State U. Svc: USAF. AHS.

DOUGLAS, Edward H., (MR.) (M82) (Ed) 1527 Daly, Corpus Christi, TX 78412. Dy: (512) 939-2229. Res: (512) 992-5787. W: Jodi. B: Aug 29. Job: Ind Engrg Tech, CCAD. GS: 9. 2 yrs. Educ: ERAU, BA. Svc: USAF. Ret: 72. 20 yrs.. Vp, Corpus Christi Chapter.

DOUGLAS, Jolynn K., (MS.) (M86) (Jodi) 1527 Daly, Corpus Christi, TX 78412. Dy: (512) 939-3627. Res: (512) 882-5787. H: Ed. B: Mar 10. Job: CCAD, Chl, Purchasing Div. GS: 9. Educ: Delmar, Nursing.

DREHER, Elizabeth, (MS.) (M87) (Betty) 2112 Prather, St. Louis, MO 63139. Dy: (314) 263-2636. Res: (314) 644-5077. H: Donald. B: Aug 11. Job: AMSAV-MDDP, AVSCOM. GS: 9. 1 yr.

DUBOIS, Jean E., (MS.) (M79) 309 Green Grove Road, Wayside, NJ 07712. Dy: (201) 532-4441. Res: (201) 922-9657. H: Sherman. B: Jan 31. Job: Program Analyst, LABCOM, Ft. Monmouth. GS: 12. 6 yrs. Svc: USAF. 3 yrs.

DUBOIS, Merton S., (MR.) (M77) (Sherm) 309 Green Grove Road, Wayside, NJ 07712. Dy: (201) 532-0014. Res: (201) 922-9657. W: Jean. B: Jun 5. Job: Ch, Advance Concepts Office, Ft. Monmouth. GS: 15. 9 yrs. Educ: Monmouth, BS; U of Ill, MS. Svc: USAF. 4 yrs. Srvp, Monmouth Chapter, Past Pres, Monmouth Chapter.

DUMAS, Thesella, (MS.) (M78) (Jean) 1000 Allen Street, Madison, IL 62060. Dy: (314) 263-3764. B: Nov 29. Job: Inventory Mgmt Spec. Svc: 11. 4 yrs.

DZUGAN, Michael, Jr, (MR.) (M78) 129 Riverbrook Avenue, Lincoln, NJ 07738. Dy: (201) 544-4529. Res: (201) 747-2730. Job: AVRADA SAVAA-AC, Ft. Monmouth. GS: 12. 4 yrs. Educ: U of Buffalo, BS, MS, EE; Fairleigh, MS.

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EAST, Douglas D., (MR.) (M87) (Doug) 1104 Deer Path Rd, Dothan, AL 36303. Dy: (205) 255-3007. Res: (205) 793-6470. W: Agnes. B: Apr 1. Job: Dep Dir Air Traffic Control Act. GS: 14. 1 yr. Svc: USAF. 9 yrs.

EBERHART, Wilfred L., (MR.) (M84) (Bud) 817 Patty Drive, Apt. C, Maryville, IL 62062. Dy: (314) 263-9320. Res: (618) 345-4811. B: Feb 11. Job: Supervisory Inventory Mgmt Specialist, TROS-COM. GS: 13. 1 yr. Educ: So IL U, BS. Svc: USAF. 4 yrs.

EDGAR, William V., (MR.) (M74) (Bill) 3906 Marion St, Corpus Christi, TX 78415. Dy: (512) 939-3251. Res: (512) 992-9975. W: Jenni.

8-May 22. Job: A/C Engine Gen FMN CCAD. GS: 13. 2 yrs. Educ: TX Southmost Coll. Svc: USAF Vp, Corpus Christi Chapter. Past Vp, Corpus Christi Chapter.

EHRET, Sandra K., (MS) (M85) 13571 Shandon Circle, Ferguson, MO 63135. Dy: (314) 263-1562. Res: (314) 521-5728. Job: Supply Spec AVSCOM. GS: 9.

EICKHORST, James O., (MR) (M84) (Jim) 1569 Candish Lane, Chesterfield, MO 63017. Dy: (314) 263-1971. Res: (314) 537-1568. W: Patricia. B: Feb 28. Job: APACHE Prog Office, Sys Eng Div. GS: 13. 3 yrs. Educ: St Louis U, BS. Svc: USAF. 6 yrs.

ELLINGTON, Char M., (MS) (M85) 2311 Park Drive, Godfrey, IL 62035. Dy: (314) 263-2270. Res: (618) 466-1818. H: Jerry. B: May 24. Job: Contract Cost Office, AVSCOM. GS: 9. 1 yrs. Educ: So Il U, BS.

ELLIOTT, Charles T., (MR) (M66) 5 Pal Drive-Wayside, Ocean, NJ 07712. Dy: (201) 544-2306. Res: (201) 493-2558. W: Betty. B: Nov 10. Job: Dir, Avionics Tech Directorate, USAF/AVRADA. GS: 15. 13 yrs. Educ: Rutgers, MSEE BS AB.

ELLIOTT, Loren, (MR) (M83) 200 Pamela Drive, Belleville, IL 62223. Dy: (314) 263-9275. W: Marjori. B: Mar 16. Job: Sys Analyst, AMSTR-ST. GS: 12. 4 yrs. Educ: NM State U, BA. Svc: USA. 8 yrs.

ERICKSON, Gerald R., (MR) (M65) (Jerry) 8 Lourdes Court, Lake St. Louis, MO 63367. Dy: (314) 263-1722. Res: (314) 625-4943. W: Shirley. B: Dec 21. Job: Actg Dep Prog/PEO Cnt Avn XO. GS: 15. 5 yrs. Educ: Webster U, MA; ICAF, Svc: USAF.

ERSKINE, Carol D., (MS) (M86) 14th Maint Co, Box 513, APO NY 09353. H: Lew. B: Jul 27. Job: UA/ASSB. GS: 4. 1 yrs. Educ: No Cent MI Coll, UA.

EVANS, Shirley B., (MS) (M76) P.O. Box 407, Ridley Park, PA 19078. Dy: (215) 991-8547. B: Jul 5. Job: Supv Gaspl, Chief Qual Mgt Br, Boeing Vertol, ARPRO. GS: 12. 1 yr. Educ: CCSU, MBA. Past Sec, Corpus Christi Chapter.

EWELL, Edward A., (MR) (M87) (Ed) 205 Harwood Place, Enterprise, AL 36330. Dy: (205) 255-3889. Res: (205) 347-5665. W: June. B: Jan 20. Job: Education Specialist, DOTT. GS: 12. 6 yrs. Educ: Troy State U. Svc: USA. 3 yrs. AUSA.

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FAIRFIELD, Lewis W., II, (MR) (M80) (Lew) 2823 Nisqually View St. Ne, Olympia, WA 98506. W: Mi. B: Sep 5. Job: AVSCOM Tech Rep. USA. GS: 12. 20 yrs. Svc: USA. 2 yrs.

FAJNOR, Vladimir J., (MR) (M73) (Vlad) 23830 Triara Street, Woodland Hills, CA 91367. Dy: (818) 702-4345. Res: (818) 347-1556. W: Arlene. B: Oct 31. Job: SPT PM, Hughes Acft. Educ: II Inst of Tech, BSME. Svc: USAF. 4 yrs.

FARIES, Roy D., (MR) (M82) 3726 Bentwood Lane, Corpus Christi, TX 78415. Dy: (512) 939-2437. Res: (512) 853-3185. W: Vicki. B: Nov 29. Job: PM, PP&C Div, CCAD. GS: 9. 4 yrs. Educ: Del Mar Tech Coll. Svc: USAF. 4 yrs. Past Vp, Corpus Christi Chapter.

FARIES, Vicki B., (MS) (M83) 3726 Bentwood Lane, Corpus Christi, TX 78415. Dy: (512) 939-3427. Res: (512) 853-3185. H: Roy. B: Nov 19. Job: Supply Clerk, Dir For Serv, CCAD.

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GS: 5. 3 yrs. Educ: Durham's Bus Coll.

FAUL, John M., (MR) (M87) 1211 Odessa Drive, St. Louis, MO 63137. Dy: (314) 263-2636. Res: (314) 867-8678. W: Donna. B: Jun 28. Job: Equip Spec, AVSCOM. GS: 9. 1 yr. Educ: Forest Park, AA.

FEDER, Earl, (MR) (M82) 16 Meyer Road, Edison, NJ 08817. Dy: (201) 544-3907. Res: (201) 985-5582. W: Elaine. B: Oct 11. Job: AVRADA, Fort Monmouth. GS: 14. 4 yrs. Educ: Pratt Inst, BEE; Rutgers U MSEE. 2 yrs.

FIGUEROA, Jesus R., (MR) (M85) 3021 Brauner Pkwy, Corpus Christi, TX 78415. Dy: (512) 939-2149. Res: (512) 852-1745. B: Aug 28. Educ: Delmar Tech. Svc: USA. 3 yrs.

FINAFROCK, John W., (MR) (M76) 500 Guntersville Road, Arab, AL 35016. Dy: (205) 876-5266. Res: (205) 586-2203. W: Letta. B: Jul 17. Job: Dep. Dir of Materiel Mgt, MICOM. GS: 15. 5 yrs. Educ: Columbia, BA, USA. Past Vp, Lindbergh Chapter.

FINEGAN, Janis M., (MS) (M85) (Jan) 1033 Summerlee Drive, Baldwin, MO 63011. Dy: (314) 263-1164. Res: (314) 227-3403. H: Ray. B: Mar 3. Job: Public Affs Spec, AVSCOM. GS: 11. 1 yr.

FIRMINT, John A., (MR) (M81) 491 Monticello Blvd, Lexington, KY 40503. Dy: (606) 293-4176. Res: (606) 223-5926. W: Gretchen. B: Jan 14. Job: Tech Publ Mgr, AMC, MFRSA. GS: 12. 8 yrs. Educ: Quaker City Sch Of Aeron. Svc: USAF. 8 yrs.

FITZGERALD, Marvin P., (MR) (M83) (Fitz) AVSCOM AMSAV-LA, 4300 Goodfellow Blvd, St. Louis, MO 63120-1798. Dy: (314) 263-3248. W: Ann. B: Sep 16. Job: AVSCOM, Dir of Readiness. GS: 13. 20 yrs. 4 yrs.

FLAMING, Gilbert M., (MR) (M87) (Mark) 7409 Wise Avenue, Richmond Hgts., MO 63117. Dy: (314) 263-1575. Res: (314) 647-0360. Job: Electronics Engr, AVSCOM. GS: 13. 1 yr. Educ: Washington U, Cornell, MBA.

FLOOD, James T., (MR) (M83) (Jim) 1809 Hudson Road, St. Louis, MO 63136. Dy: (314) 263-9005. Res: (314) 869-2029. W: Mary C. Job: Chf, Proc & Prod Branch, LHX Proj, AVSCOM. GS: 14. 7 yrs. Svc: USN.

FLOURNOY, Denton W., (MR) (M78) 1130 Alexandria, Corpus Christi, TX 78412. Dy: (512) 939-2651. Res: (512) 991-1013. W: Jennie. B: Oct 23. Job: Acft Eng Mech Fmn Chf, Eng Serv Ctr, Sec, CCAD, Corpus Christi, TX. GS: 10. 7 yrs. Svc: USAF. 4 yrs.

FLOYD, William D., (MR) (M86) (Bill) 707 South Main, Troy, IL 62294. Dy: (314) 262-1233. Res: (618) 667-8068. W: Toni. B: Feb 24. Job: Log Mgmt Spec, AVSCOM AMSAV-LFS, X1233. GS: 12. 3 yrs. Svc: USAF. 4 yrs.

FLYNN, Robert J., (MR) (M82) (Bob) 11752 Benedicta, Bridgeton, MO 63044. Dy: (314) 263-1817. Res: (314) 739-4695. B: Nov 22. Job: Vp, AVSCOM, St Louis. GS: 12. 15 yrs. Educ: NO State U, BSAE. U of ID. Svc: USMC. 1 yr. AHS.

FOLEY, Mary, (MS) (M82) 8628 Neier Ln, St. Louis, MO 63123. Dy: (314) 263-2076. GS: 12.

FORD, Sheryl D., (MS) (M87) (Necci) 2948F Caddiefield, St. Louis, MO 63136. Dy: (314) 263-2377. Res: (314) 869-4323. B: Sep 16. Job: Inventory Mgr Spec, AVSCOM. GS: 9. 1 yr. Educ: So U, BS.

FOREMAN, Laverne R., (MR) (M82) (Vern) 164 N. 74th Street, Apt. 2024, Mesa, AZ 85207. Dy: (602) 891-3579. Res: (602) 981-2974. W: Doris. B: Dec 13. Job: Prod & Ind Br Chf, US ARPPD-MDHC. GS: 13. 3 yrs. Educ: U of MD. Svc: USAF. 9 yrs. Past Sec, Arizona Chapter.

FREDERICI, Cecil, (MR) (M82) (Fred) 642 Southern Street, Corpus Christi, TX 78404. Dy: (512) 939-3461. Res: (512) 863-2048. W: Phyllis. B: May 20. Job: CCAD. GS: 7. 21 yrs. Educ: Iowa State.

FRY, Clarence A., (MR) (M83) (Piff) 102 Dublin Court, Bel Air, MD 21014. Dy: (301) 275-834. Res: (301) 838-6691. W: Eunice. B: Oct 15. Job: CHV, Avn & Air Def Dir, USA Human Energy Lab. GS: 15. 7 yrs. Educ: Penn State. BS; GWU, MS. Svc: USAF. 4 yrs.

FUNK, Clayton, (MR) (M87) (Clay) 409 Coles Road, Blackwood, NJ 08012. Dy: (201) 532-1339. Res: (609) 227-7441. W: Judith. B: Dec 6. GS: 12. 2 yrs. Educ: Wash Jeff College. Svc: USA.

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GAGGIN, David V., (MR) (M85) (Dave) 12 Roger Avenue, Lincroft, NJ 07738. Dy: (201) 544-4851. Res: (201) 842-2330. W: Judy. B: Jun 22. Job: Vilanova, MS; Penn State, BS; St. Lawrence, BA. GS: ES. 2 yrs. NEB. Pres, Monmouth Chapter. Past Vp, Monmouth Chapter.

GAINER, Charles A., (MR) (M81) (Chuck) P.O. Box 1503, Enterprise, AL 36330. Dy: (205) 255-4404. Res: (205) 347-8438. B: Aug 22. Job: Chf, ARI Avn R&D Activity, Inst. DCSPER. GS: 15. 13 yrs. Educ: U of IL. Svc: USAF. 6 yrs. AUSA.

GALE, Lawrence, (MR) (M82) (Larry) 3705 S. George Mason Dr., Apt. 1315-S, Falls Church, VA 22041. Dy: (202) 274-5480. Res: (703) 931-4567. W: Harriet. B: Aug 6. Job: Aero Eng, Army Mat'l Cmd. GS: 15. Educ: No Westn U, BS.

GARCIA, Nisaflore, Jr., (MR) (M80) (Forty) P.O. Box 6272, Corpus Christi, TX 78412-6272. Dy: (512) 939-3172. Res: (512) 993-5460. B: Feb 21. Job: Acft Mech Foreman, Fil & Gnd Check, CCAD. GS: 10. 7 yrs.

GARMON, Janet J., (MS) (M83) (Jan) 1525 Tremont Drive, Florissant, MO 63033-3024. Dy: (314) 263-1122. Res: (314) 921-6251. H: Gary. B: Apr 4. Job: AMSAV-ET Admin Officer, Dir Of Eng. GS: 7. 1 yr. Vp, Lindbergh Chapter.

GARY, Elio R., (MS) (M87) (Rea) 4634 Valdez Dr, Corpus Christi, TX 78416. Dy: (512) 939-3601. Res: (512) 854-7466. B: May 4. Job: Dir Maint Engg Shops Div, CCAD.

GEISLER, Janet, (MS) (M86) (Jan) P.O. Box 532, Hayes, VA 23072. Dy: (804) 878-6706. Res: (804) 642-9868. H: David. B: Nov 23. Job: USA Avn Log Schol, Mgmt Asst. GS: 5. 3 yrs. Educ: Commonwealth Coll, AA.

GENTRY, C. Patrick, (MR) (M68) 4019 Hilltop Fld Dr, Chester, VA 23831. Res: (804) 796-7842. W: Nancy. B: Jan 17. Job: Psnl Off, Ft. Lee. GS: 14. 4 yrs. Educ: Texas A&I, BA.

GIBSON, Constance S., (MS) (M80) (Connie) Hq 5th Corps G-1, Safety, APO NY 09079-5000. H: William. B: Sep 6. Job: Safety And Occupational Health Mgr, Frankfurt. GS: 13. 1 yr. Educ: Troy State U, BS, AUSA.

GILL, William, (MR) (M84) (Bill) 21 Rutland Place, Eatontown, NJ 07724. Dy: (201) 544-3876. Res: (201) 542-0574. W: Sandra. B: Sep 18. Job: AVRADA (SAVAA) Iq Fort Monmouth. GS: 13. 3 yrs. Educ: SOSU, BS; Fairleigh Dickinson, MSEE, AUSA.

GILLISPIE, William H., (MR) (M60) (Bill) 1915 Claymire Drive, Chesterfield, MO 63017. Dy: (314) 263-2057. Res: (314) 532-5171. W: Laura. B: Jan 8. Job: Chf Tech Data & Publications Div., GS: 15. 7 yrs. Educ: Lincoln U, BSME. Svc: USA, 2 yrs. AHS.

GLASGOW, Linda J., (MS) (M85) Route 6, Box 93, Edwardsville, IL 62026. Dy: (314) 263-9254. Res: (618) 656-8978. B: Jun 8. Job: Ch, Distr/Transp Div, TROSCOM. GS: 14. 2 yrs. Educ: Campbell U, BS; Webster, MA.

GONZALES, Richard V., (MR) (M86) 1621 Daly St, PO 8353, Corpus Christi, TX 78412. Dy: (512) 939-3607. W: Lupe. B: Jan 17. Job: Metalizer, CCAD. 17 yrs. Svc: USAF. Ret: 44. 1 yr.

GORMONT, Ronald, (MR) (M82) (Ron) 402 Tamarack Lane, Baltimore, MD 63011. Dy: (314) 263-1755. Res: (314) 527-8419. W: Carolyn. B: Jun 21. Job: Dir, Product Assurance, AVSCOM. GS: 15. 10 yrs. Educ: Penn State, BSAC, MEES, AHS.

GRIFFIN, Edgar R., (MR) (M87) (Ed) 372 Bath Ave, Apt 25, Long Branch, NJ 07740. Dy: (201) 544-3586. Res: (201) 222-3056. B: Feb 9. Job: ILS Mgr, AVRADA. GS: 12. 1 yr. Svc: USMC. 21 yrs.

GUIDRY, Marian W., (MS) (M87) 5831 Sir Edward, Florissant, MO 63033. Dy: (314) 263-1194. Res: (314) 741-6372. H: Ronald. B: Mar 4. Job: Opns Res Analyst, AVSCOM. GS: 11. 5 yrs. Educ: Stillman Coll, BS.

HHHHHHHH

HALL, James E., (MR) (M82) (Jim) 985 Ribbon Tail, Corpus Christi, TX 78418. Dy: (512) 939-3434. Res: (512) 939-8571. B: Nov 9. Job: Mech Engr, CCAD. GS: 12. 2 yrs. Educ: U of TX, BSME; E TX State, MS.

HALLMARK, Gerald D., (MR) (M78) (Jerry) 3502 Crestdale, Corpus Christi, TX 78415. Dy: (512) 939-2651. Res: (512) 992-8227. B: Jan 13. Job: Eng Tech, Eng Svc Cem, CCAD. 6 yrs. Svc: USA, 3 yrs.

HAMBLIN, Don L., (MR) (M85) (Oscar) 1302 Flat Rock Road, Stockbridge, GA 30281. Dy: (404) 752-2196. Res: (404) 474-0314. W: Paula. B: Apr 29. Job: Supply Mgt Rep FORSCOM. GS: 12. 9 yrs. Educ: UMKC. Res: USA, 2 yrs.

HAMMAN, William F., (MR) (M83) (Bill) 1013 Behmann, Apt 16, Corpus Christi, TX 78418. Dy: (512) 939-3342. Res: (512) 877-3870. B: Jul 7. Job: CCAD. WG: 19. Educ: U of NM.

HANDING, Roy A., (MR) (M83) 2250 Liberty Drive, Florissant, MO 63031. Dy: (314) 263-1391. Res: (314) 838-8929. B: Nov 17. Job: AVSCOM, AVRADA. GS: 12. 5 yrs. Educ: St Louis U, BSEE.

HANNELL, Tony M., (MR) (M73) (J Edgar)

H The 1987 Aviation Officer

834 Morgan, Elgin, IL 60123. Dy: (312) 657-2122. W: Gay. B: Jul 6. Job: Supvr, 86th ARCOM ASF/26/ USAR. GM: 6. 06 yrs. Educ: U of WI, AS. Svc: USA, 19 yrs.

HANSEN, Edwin L., (MR) (M85) (Ed) 4025 Tripoli, Corpus Christi, TX 78411. Dy: (512) 855-7078. W: Jean. B: Feb 1. Job: CCAD. GS: 11. 4 yrs. Educ: Wstn MI U, BS.

HARPER, Willie D., (MR) (M75) (Dale) 505 Maplehurst Road, Jacksonville, NC 28540. Dy: (919) 451-6630. Res: (919) 347-5701. W: Joyce. B: Oct 29. Job: Engrg Tech, NAESU Det New River. GS: 11. 6 yrs. Educ: USAF, Dundalk Comm Coll; BS. Svc: USA, 16 yrs.

HASKENHOFF, Janet A., (MS) (M85) 2270 Allesworth Court, St. Louis, MO 63129. Dy: (314) 263-9004. Job: Secretary, LHX PM Office.

HATFIELD, William C., (MR) (M78) (Bill) 4514 Hebert, Corpus Christi, TX 78413. Dy: (512) 939-3601. Res: (512) 853-5924. W: Annie. B: May 5. 20 yrs. Svc: USA.

HAUGAN, Daniel P., (MR) (M85) 506 Pike Lane, Troy, IL 62294. Dy: (314) 263-2801. Res: (618) 667-2441. Job: Supvr, Ind Engr, AVSCOM. GS: 14. 3 yrs. Educ: U of OK, BS; Texas A&M, MS.

HAYDEN, James S., (MR) (M80) Box 345, Edwards, CA 93523. Dy: (805) 277-2813. Res: (805) 942-3398. W: Marty. B: Jul 2. Job: Tech Dir, Army Avn Engrg Ft Act. GS: 15. 19 yrs. Educ: Miss State, MS Aero. Svc: USAF. 2 yrs. AHS.

HAYDEN, William S., (MR) (M86) (Bill) Route 2, Box 38, Warrenton, VA 22186. Dy: (703) 347-8627. Res: (703) 347-7816. B: Jan 22. Job: Dep Proj Mgr, Signals Warfare. GS: 15. Educ: Clemson U, BS.

HAYES, Thomas R., (MR) (M81) (Tom) 143 Little Silver Pt. Rd., Little Silver, NJ 07739. Dy: (201) 532-5891. Res: (201) 530-3781. W: Paula. B: Jun 16. Job: Staff Engr, CECOM. GS: 13. 5 yrs. Educ: Clemson U, BS; U of Mo, MSc.

HENDON, George B., (MR) (M78) 1525 Edmund Drive, Barnhart, MO 63012. Dy: (314) 263-3477. Res: (314) 464-1810. W: Martha. B: Nov 10. Job: Chf, Depot Div, Dir For Maint, AVSCOM. GS: 15. 1 yr. Educ: U of TX, BA; Webster Coll, MA.

HENNINGFELD, Craig F., (MR) (M85) (Chink) 3802 Caravelle Pkwy., Apt. 65, Corpus Christi, TX 78415. Dy: (512) 939-3342. Res: (512) 857-2892. B: Sep 13. Job: WC 5EB2F, X3342. CCAD. GS: 9. 3 yrs. Educ: Trinidad St Jr Coll, AA. Svc: USA, 5 yrs.

HENRY, Mary H., (MS) (M86) 118 Lake One Drive, Hampton, VA 23666. Dy: (804) 678-6864. Res: (804) 826-8916. H: Keith. B: Mar 6. Job: U.S. Army Avn Log School. GS: 12. 4 yrs. Educ: Iowa State U, BS; GWU, MSA.

HEPLER, Helde E., (MS) (M78) Box 201, Oak Grove, KY 42262. Dy: (502) 798-6670. Res: (615) 431-3502. B: Jan 31. Job: Mngmt Analyst, DPACA, Ft. Campbell. GS: 9. 10 yrs. Educ: Austin Peay St U, BA BS MA; Murray St U, BS, AUSA.

HEPLER, Leslie J., (MS) (M86) (Jack) 2157

Rule Avenue, Maryland Heights, MO 63043. Dy: (314) 263-1659. Res: (314) 878-0004. W: Helen. Job: Aerospace Engr, AVSCOM. GS: 14. 3 yrs. Educ: Purdue U, BS, AE. Svc: USA. Ret: 87. 28 yrs.

HERSCHBACH, C. E., Jr., (MR) (M82) 350 E. Wildwood Street, Corpus Christi, TX 78410. Dy: (512) 939-2219. Res: (512) 241-2037. W: Gracie. B: Aug 15. Job: Sheetmetal Mech, Dir, Maint, CCAD. GS: 8. 3 yrs. Educ: Delmar Coll.

HERSCHBACH, Charles E., (MR) (M71) P.O. Box 3045, Corpus Christi, TX 78404. Dy: (512) 939-3161. Res: (512) 241-2037. B: May 30. Job: Components Qual Contr Branch Chf, CCAD. W: 17. Svc: USAF. 8 yrs. AUSA, AFA.

HILFMAN, Ned, (MR) (M81) 8454-E Plaza Rock Court, St. Louis, MO 63114. Dy: (314) 263-9262. W: Carol. B: Aug 14. Job: Command Lead Mgr, TROSCOM. GS: 11. 2 yrs. Educ: Stollacom Comm Coll, AA. Svc: USA. Ret: 78. 22 yrs.

HOFFMAN, Roger P., (MR) (M80) 1401 Crossett, St. Louis, MO 63138. Dy: (314) 263-1794. Res: (314) 741-2019. W: Sharron. B: Aug 30. Job: Chf, Fid Per Assn't Div, AVSCOM. GS: 14. 2 yrs. Educ: U of Mo - Rolla, BSEE. AHS. Vp, Lindbergh Chapter.

HOFFMAN, Sharron K., (MS) (M85) 1401 Crossett, St. Louis, MO 63138. Dy: (314) 263-1855. Res: (314) 741-2019. H: Roger. B: Jul 14. Job: LHXPM, PA and Test. GS: 5. 3 yrs.

HOLBERT, Calvin D., (MR) (M60) (Cal) Rd 1, Box 148, Starrucco, PA 18462. Dy: (607) 751-4386. Res: (717) 798-2527. W: Kuni. B: Jan 4. Job: Electronics Engr, DCASPRO. GS: 12. 7 yrs. Educ: U New Haven, BS; UCONN, MBA.

HOLLMAN, Edward J., (MR) (M65) (Ed) 2733 Bopp Road, St. Louis, MO 63151. Dy: (314) 263-3525. B: Nov 14. Job: Dir Safety, AVSCOM. GS: 15. 20 yrs. Svc: USN. 3 yrs. AHS.

HOLT, Joseph P., (MR) (M86) (Buddy) 508 East Road, Belford, NJ 07718. Dy: (201) 323-2116. Res: (201) 495-2634. W: Carol. B: Feb 36. Job: Chf Pilot, Ft Test Actv NAEC. GS: 14. 3 yrs. Educ: Hampton Inst, BS. Svc: USA. Ret: 79. 20 yrs.

HORNE, Deborah L., (MS) (M81) (Debi) P.O. Box 32, Ederwood, MO 21040. Dy: (301) 671-8150. Res: (301) 879-5168. B: Dec 4. Job: Prog Analyst, Chf Avn Div, HIDA NGB. GS: 5. 4 yrs. Educ: Essex Cmty, Harford Cmty. Past Vp, Chesapeake Bay Chapter.

HORTON, Richard O., (MR) (M74) (Dick) 610 Dolphin, Corpus Christi, TX 78411. Dy: (512) 939-2300. Res: (512) 852-4754. W: Sarah. B: Jan 6. Job: Chf, Engr Spt Br, Dir/Maint, CCAD. GS: 12. 5 yrs. Educ: NTSU/CCSU, BS. Svc: USA. 1 yr. Past Srvp, Corpus Christi Chapter.

HOUGHIN, Irene M., (MS) (M85) 625 Gregory Drive, No. 35, Corpus Christi, TX 78412. Dy: (512) 939-3916. Res: (512) 992-3640. H: Earl. Job: CCAD. GS: 7. 1 yr. Educ: Del Mar.

HOWRY, Melvin A., (MR) (M86) (Mel) P.O. Box 18449, Corpus Christi, TX 78418. Dy: (512) 939-3432. Res: (512) 949-7710. W: Linda. B: May 7. Job: Cmd Counsel, CCAD. USA. GS: 13. 1 yr. Educ: U of AZ, BA, Gonzaga U, JD. Svc: USA, USMC. 7 yrs.

HUBBARD, Robert D., (MR) (M74) 2060 Barcelona, Florissant, MO 63033. Dy: (314) 263-1800. W: Sally. Job: Dep PM, LHX. 2 yrs.

Educ: U Tulsa, BSAE; U MO - Rolla, MSEM.
4 yrs. AHS, AUSA, AFA.

HUBLER, Donald E., (MR.) (M85) 2523
England Town Rd, St. Louis, MO 63129. Dy: (314) 263-1775. W: Catherine. B: Sep 15. Job: Chief Of Meth/Dev Br, AVSCOM. St. Louis. GS: 13. 3 yrs. Educ: ND State U, BS.

HUGHES, Timothy J., (MR.) (M85) (Tim) 5804
Bristlecone Ct., St. Louis, MO 63129. Dy: (314) 263-2532. Res: (314) 487-9396. W: Beverly. B: Nov 5. Job: Chf, Dev Proj Div, Div For Engr, AVSCOM. GS: 15. 2 yrs. Educ: Parks Coll, BS; Webster U, MA. AHS.

HUTCHINSON, David J., (MR.) (M87) 1370
Kael, Apt 4, Florissant, MO 63033. Dy: (314) 263-2626. Res: (314) 921-7243. B: Apr 20. Job: Log. Mgmt Specialist Dir Of Int'l. GS: 11. 1 yrs. Educ: Kent State U, BS.

HUTSON, Robert, (MR.) (M82) (Bob) 2 Zinzer
Court, St. Louis, MO 63123. Dy: (314) 263-2532. W: Anna. B: Jul 27. Job: Dep Dir For Maint. GS: 15. 6 yrs. Educ: St Louis U, BS; U of MO - Rolla, MS. Svc: USN. 2 yrs. AHS.



INGLISH, Bruce D., (MR.) (M83) 2700 San
Rafael Place, St. Louis, MO 63114-5135. Dy: (314) 263-1796. W: Donna. B: Aug 15. Job: AVSCOM AMSAV-QSODA. GS: 12. 1 yr. Educ: U of Mo - Rolla, BS.

IRVINE, Gerald W., (MR.) (M81) (Jerry) 21
Meeting Road, Newport News, VA 23606. Dy: (804) 878-3272. Res: (804) 596-7575. B: Aug 6. Job: Public Affairs Officer, Applied Technology Laboratory, Ft Eustis, VA. GS: 9. Svc: USA. 6 yrs.

ISBELL, Janice M., (MS.) (M87) 6849 Roberts
Avenue, University City, MO 63130. Dy: (314) 263-1712. Res: (314) 725-8174. H: Irvin. B: Jul 30. Job: Ind Engr, AVSCOM. GS: 13. Educ: Wash U, BS, AHS.

ISOM, Jack R., (MR.) (M73) (Jack) 412
Flemington Road, Huntsville, AL 35802. Dy: (205) 876-3106. Res: (205) 883-5302. W: Marcella. B: Oct 3. Job: Dir, Msl Logis Ctr, USA Msl Cnd, Redstone Ars. SES: 4 yrs. Svc: USAF, USN. Pres, Tennessee Valley Chapter, Past Vp, Lindbergh Chapter.

ISOM, Marcella K., (MS.) (M85) (Marcie) 412
Flemington Road, Huntsville, AL 35802. Dy: (205) 885-4084. Res: (205) 883-5302. H: Jack. B: Aug 24. Job: Logistics Mgt Spec, USA Msl Cnd. MG: 14.



JENSEN, Patricia, (MS.) (M86) 112 Crestview
Drive, Enterprise, IL 36330. Dy: (205) 255-8200. B: Aug 1. Job: USAA/VN/DTA. GS: 12. 1 yrs. Educ: Marquette U, U of So Ca, BS.

JESTUS, John M., (MR.) (M85) 2977 Hollow
Lane, Powder Springs, GA 30073. Dy: (404) 752-3926. Res: (404) 973-4798. B: Feb 22. Job: FORSCOM, Sr Avn Logis Mgt Spec. GS: 12. 10 yrs. Svc: USAF. Ret: 68. 20 yrs.

JOHNSON, Donald K., (MR.) (M80) (Don) 621
Ester, Chokio, IL 62206. Dy: (314) 263-2775. Res: (618) 337-4614. W: Evelyn. B: Mar 3. Job: Chf, Dist Trans Div, AVSCOM. GS: 15. 4 yrs. Educ: Columbia, BA Bus. Svc: USN. 4 yrs.

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JOHNSON, Douglas C., (MR.) (M74) 4 Seward
Drive, Ocean, NJ 07712. Dy: (201) 544-3284. Res: (201) 922-0568. W: Patricia. B: Feb 13. Job: Proj Engr, USA AVRADA, Fort Monmouth. GS: 13. 5 yrs. Educ: RPI, BSEE; FDU, MSCS; NYU, MSEE. Svc: USAF. 4 yrs.

JOHNSON, Richard, (LTC) (M85) (Dick) P.O.
Box 235 USAASDE, APO NY 09102. W: Charmaine. B: Dec 14. Job: Aeron Info Spec, Heidelberg AAF, USAASDE. GS: 12. 4 yrs. Educ: Kent State U, BA; U So Ca. Svc: USAF. 21 yrs. AFA.

JOHNSON, Robert H., (MR.) (M82) (Bob) 5727
Hidden Cove Lane, Florissant, MO 63034. Dy: (314) 263-3775. Res: (314) 741-8045. W: Bunny. B: Feb 18. Job: Chf, Aircraft Sys Div, Dir Mat'l. GS: 15. 3 yrs. Educ: Memphis State U, BA, Svc: USA.

JOHNSON, Roy L., (MR.) (M80) 2625 Dunn
Road, Florissant, MO 63033. Dy: (314) 263-3493. Res: (314) 837-6042. W: June. B: Jan 7. Job: AVSCOM, St. Louis, MO. GS: 14. 7 yrs. Svc: USA. 3 yrs.

JOHNSON, Sammy R., (MR.) (M80) 5322
Bromley, Corpus Christi, TX 78413. Dy: (512) 939-3161. Res: (512) 992-2900. W: G. Faye. B: Dec 27. Job: Avionics/Armament Q.C. GS: 13. 3 yrs. Svc: USAF. 4 yrs.

JOHNSTON, Larry D., (MR.) (M79) 5747
Hidden Cove, Florissant, MO 63034. B: Sep 11. Job: Deputy PM, COBRA, GS: 15. 6 yrs. Educ: U of MO, BSME, TX A&M, ME. AHS.



KAIMANN, Kenneth G., (MR.) (M86) (Ken)
11099 Trampe Avenue, St. Louis, MO 63138. Dy: (314) 263-3239. Res: (314) 355-0258. W: Linda. B: Aug 2. Job: EH60A Logistics Mgr SEMA PM, AVSCOM. GS: 12. 2 yrs. Educ: U of MO - St. Louis, BS. Svc: USN. Ret: 67. 4 yrs.

KAISER, Richard F.O., (MR.) (M77) (Dick)
11115 Seabury Dr., Apt A, St. Louis, MO 63138. Dy: (314) 263-3820. Res: (314) 867-5121. B: Jan 22. Job: Chf, Readiness Analysis Div, USA TROSCOM. GS: 14. 4 yrs. Educ: CSUSCA, BA; WCSLMD, MA. Svc: USA. 2 yrs. Past Vp, Lindbergh Chapter.

KARG, Ronald K., (MR.) (M85) 3 Coventry
Square, Holmdel, NJ 07733. Dy: (201) 544-3891. Res: (201) 946-4593. W: Jeannette. B: Aug 20. Job: Electron Engr, AVRADA. GS: 14. 4 yrs. Educ: Stevens It, BE; NJ It, MS.

KASSOS, Tony G., (MR.) (M87) (Tony) 7167
Waterman, St. Louis, MO 63130. Dy: (314) 263-1179. Res: (314) 725-8872. W: Paula. B: Oct 4. Job: Chf, Dev Sys Analysis, AVSCOM. GS: 14. 3 yrs. Educ: DSC, Wash U. Svc: USA. 3 yrs.

KEIM, John R., Jr, (MR.) (M80) (Randy) 4674
Malden Drive, Wilmington, DE 19803. Dy: (215) 591-8622. Res: (302) 764-7885. W: Linda. B: Dec 29. Job: Ind Engr, ARPRD, Boeing Vertol, AVSCOM. GS: 12. 1 yr. Educ: So Il U, BS. Svc: USMC. 15 yrs. Treas, Delaware Valley Chapter.

KELLER, Ronald L., (MR.) (M86) 8th Army Golf
Club, APO SF 96301. W: Kim. B: Sep 13. Job:

Mgr Eighth Army Golf Club. GS: 11. 1 yrs. Svc: USA. Ret: 85. 20 yrs.

KELLEY, Karen L., (MS.) (M82) 1709 Nashua
Drive, Delfwood, MO 63136. Dy: (314) 263-3167. Res: (314) 867-4695. B: Nov 13. Job: Svcy Contracting Oftr, TROSCOM. GS: 12. 3 yrs. Educ: Columbia, BA; Webster U, MA.

KELLEY, Larry J., (MR.) (M82) 912 Tilbury
Lane, St. Charles, MO 63301. Dy: (314) 263-2626. Res: (314) 723-0342. W: Barbara. B: Dec 7. Job: Int'l Logis, AVSCOM. GS: 12. Svc: USAF. 4 yrs.

KENNEDY, Joanne M., (MS.) (M86) 4061
Fieldstone Drive, Florissant, MO 63033. Dy: (314) 263-1177. Res: (314) 838-4445. H: Robert. B: May 8. Job: Supv Contntr Spec, AVSCOM. GS: 13. 2 yrs.

KENNEDY, Robert V., (MR.) (M85) (Bob) 4061
Fieldstone Drive, Florissant, MO 63033. Dy: (314) 263-1986. Res: (314) 838-4445. W: Joanne. B: Jan 4. Job: Supv Engr, Avn Sys Cnd. GS: 15. Educ: USMA, BS; GA Tech, MS. Svc: USA. AHS.

KERBY, Paul D., (MR.) (M83) 5715 Hidden
Stone Drive, St. Louis, MO 63129. Dy: (314) 693-1550. Res: (314) 487-9872. W: Darlene. B: Aug 2. Job: COBRA PMD Chf Log Mgmt Div. GS: 14. 2 yrs. Educ: Webster Coll, MBA. Svc: USN. 4 yrs.

KERSHAW, Fred E., (MR.) (M83) Route 2, Box
109-c, Alhambra, IL 62001. Dy: (314) 263-1683. Res: (618) 488-7909. W: Sonja. B: Jan 30. Job: AVSCOM, U.S. Army. GS: 13. 2 yrs. Educ: San Jose State U, BS. Svc: USA. Ret: 56. /

KHEMCHAND, Frederick, (CDR) (M80) (Sonny)
Checkpoint Charlie, Memb, APO NY 09611. Dy: (030) 819-5437. Res: (000) 885-2130. W: Beryl. B: Apr 3. Job: Calibration Coordinator, Avn Det, Main Element Bde Vp, Checkpoint Charlie Chapter.

KIMBALL, Helen M., (MS.) (M82) 2134 Aldrin
Apt, Apt 12A, Ocean, NJ 07712. Dy: (201) 544-2689. Res: (201) 542-0809. B: Jun 1. Job: USA Avionics R&D Act, Fort Monmouth. GS: 7. 1 yrs.

KLEIN, Manfred W., (MR.) (M85) (Fred) 2205
Scarlet O'Hara Cir., Huntsville, AL 35803. Dy: (205) 878-3812. Res: (205) 883-0673. W: Diane. B: Nov 9. Job: HYDRA 70 Rocket Mgmt Office, USAMICOM. GS: 14. 18 yrs. Educ: GA Tech, BIE. Svc: USA. 1 yrs.

KOCH, John F., (MR.) (M70) (Fred) 14719
Millspring Drive, Chesterfield, MO 63017. Dy: (314) 263-1418. Res: (314) 532-1895. W: Emily. B: Dec 15. Job: Team Chf, Acrt Srv Sys Br, Tech Mgmt Div, CH-47D Mod/V-22 PMO AVRADCDCOM. GS: 17. 14 yrs. Educ: Parks Coll-St Louis U, BS.

KOERN, Jurit, (MR.) (M86) 410 Vega, Corpus
Christi, TX 78418. Dy: (412) 939-5232. Res: (512) 937-1292. W: Ella. B: Jan 23. Job: Industrial Engr Tech, CCAD. GS: 9. 1 yrs. Educ: MD U, Drury Coll, Texas A&M & A, MBA. Svc: USA. Ret: 75. 21 yrs.

KOZLOWSKI, Matthew F., (MR.) (M86) 621
Bowne Rd, Box 2061, Ocean, NJ 07712. Dy: (201) 544-2782. Res: (201) 493-4714. W: Harriett. B: Feb 11. Job: Proj Ldr, AVRADA. GS: 13. Educ: Fairleigh Dickinson U, BS. Svc: USAF. 4 yrs.

KROUPA, Dorothy, (MS.) (M82) 1536 N.
Elizabeth, Ferguson, MO 63135. Dy: (314)

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- Army's LHX Program
- "Blue Book" Directory
- ASE - Aircraft Survivability and Equipment
- C31
- 1988 Army Aviation Equipment - Past & Present

2623-2386. Res: (314) 524-2842. B: Jul 17. Job: SCS Ofc, TROSCOM. GS: 12. 3 yrs. Past Sec, Lindbergh Chapter.

KUEBLER, Harold D., (MR.) (M77) (Harry) 4717 Gateway Drive, Corpus Christi, TX 78413. Dy: (512) 939-3500. Res: (512) 854-6127. W: Nancy. B: Sep 27. Job: Gen Foreman, CCAD. GS: 15. 2 yrs. Svc: USN. Past Vp, Corpus Christi Chapter.

KULLMANN, Charles W., (MR.) (M87) (Charlie) 4807 Rhodes Avenue, St. Louis, MO 63116. Dy: (314) 263-1194. Res: (314) 481-8029. W: Bernice. B: Jun 23. Job: Supv Opts Res Analyst, AVSCOM. GS: 14. 26 yrs. Educ: St Louis U, MS; Webster U, MA. Svc: USA. 4 yrs.

KUROWSKY, Ronald W., (MR.) (M85) 1131 Mohegan Road, Manassas, VA 08736. Dy: (201) 544-3550. Res: (201) 221-5804. W: Carol. B: Oct 42. Job: AVRADA, AVSCOM. GS: 13. Educ: Monmouth Col, BS MSE.

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LADWIG, Kenneth V., (MR.) (M84) 635 Nancy, Centralia, IL 62801. Dy: (314) 263-1268. Res: (314) 523-1744. W: Melba. B: Aug 21. Job: AVSCOM, LHX PMO, Config Mgr. GS: 13. 3 yrs. Svc: USAF. 4 yrs. AHS.

LAMB, David A., (MR.) (M87) (Dave) 2108 Village Green Pkwy, Newport News, VA 23602. Dy: (804) 678-6602. Res: (804) 677-7477. W: Janet. B: Jan 8. Job: Dep Dir, DOTD, US Army Avn Logis School. GS: 13. 1 yr. Educ: W VA U, MA; Concord, BS. Svc: USN. 4 yrs.

LANG, Carol E., (MS.) (M82) 841 Country Stone Drive, Manchester, MO 63021. Dy: (314) 263-1892. Res: (314) 225-3539. H. AL: B. Job: 3 yrs. Ogn Research Analyst, AVSCOM. GS: 13. 3 yrs. Educ: Appalachian State, BS, AHS.

LANGE, James P., (MR.) (M86) (Jim) 356 Suburban Drive, Toms River, NJ 08753. Dy: (201) 544-4028. Res: (201) 349-0284. W: Carol. B: Nov 21. Job: Electronics Tech, AVRADA. GS: 12. 1 yr. Svc: USN. 3 yrs.

LANGFORD, Isalah C., (MR.) (M75) (Charlie) 941 Ricker, Corpus Christi, TX 78412. Dy: (512) 939-3978. Res: (512) 991-7060. W: Carolyn. B: Mar 30. Job: Equipment Mgr, CCAD. GS: 13. 3 yrs. Educ: E TX State U, BS.

LAPAUGH, Stephen J., (MR.) (M85) (Steve) 346 Greenmeadow Drive, Newport News, VA 23602. Dy: (804) 878-5777. Res: (804) 877-5684. W: Paula. B: Feb 16. Job: Avn Applied Tech Directorate, USAARTA, AVSCOM. GS: 12. 3 yrs. Educ: Bradley U, BS. Svc: USMC. 4 yrs.

LAUGHLIN, Edward P., (MR.) (M67) 2110 Chateleine Drive, Florissant, MO 63031. Dy: (314) 263-1171. Res: (314) 831-1966. W: Pat. B: Dec 19. Job: Dir of Sys & Cost Analysis, AVSCOM. GS: 15. 12 yrs. Educ: U of Mo, BA; Webster Coll, MA. Svc: USA. 6 yrs.

LAVERDA, Frank R., (MR.) (M84) 60 Fairfield Avenue, Cranford, NJ 07016. Dy: (201) 544-2901. W: Yvonne. B: Feb 20. GS: 13. 20 yrs. Educ: Newark Coll, BSEE.

LEE, Sharon M., (MS.) (M84) 2101 Meadow Walk Drive, Corpus Christi, TX 78414. Dy: (512) 939-3848. B: Nov 3. Job: CCAD, Mgt Analyst. GS: 9. 1 yr. Educ: E TX St U, MS; CCSU, BBA.

LETTIS, Clifford E., (LTC) (M67) (Cliff) 459 Dunmore Drive, Newport News, VA 23602. Dy:

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(804) 678-2320. Res: (804) 874-0726. W: Midge. B: Nov 27. Job: Tng Spc, Dir Army Ranges & Targets ATSC, Ft. Eustis. GS: 12. 11 yrs. Educ: St Leo, BA AA. Svc: USA. 31 yrs. AUSA., Vp, Colonial Virginia Chapter.

LEVY, Lucius D., (MR.) (M87) (Lou) 4537 Mcmillan St, Lynnwood, CA 90262. Dy: (213) 305-4678. Res: (213) 632-6277. W: Ivy. B: Nov 7. Job: McDonnell Douglas Helicopt Co, USA. 19 yrs. Educ: LAITC, AS.

LEWIS, Richard W., (MR.) (M57) (Dick) 306 Hudson Circle, Ozark, AL 36360. Dy: (205) 255-4110. Res: (205) 774-2075. W: Barbara. B: Mar 28. Job: Trng Spec DOTD, USAAVNC, Ft. Rucker. GS: 11. 4 yrs. Educ: Springfield, ESTC, ERAU, Troy St U, BS. Svc: USA. Ret: 88. 40 yrs. AUSA., Past Vp, Army Avn Center Chapter.

LICHTENBERGER, Albert, (MR.) (M81) P.O. Box 270472, Corpus Christi, TX 78427-0472. Dy: (512) 939-3123. Res: (512) 939-7063. B: Jan 19. Job: CCAD, A/C Eng Insp. Svc: USA.

LINDBERG, Arthur W., (MR.) (M76) (Wayne) 840 Woodbridge Lane, St. Charles, MO 63303. Dy: (314) 263-1074. Res: (314) 441-8357. W: Bernice. Job: Actg Team Ldr, Sys Tech Div, AVSCOM. GS: 14. Educ: Drexel U, BSEE; U of MI, MSEE.

LOWMAN, Joseph L., (MR.) (M74) USAMC Europe Box 2, APO NY 09333. W: Dorte. B: Jan 13. Job: Deputy Cdr, USAMC. GS: 15. 5 yrs. Svc: USAF. 4 yrs.

LUBER, Kenneth P., (MR.) (M82) (Ken) 2024 Hawkeye Drive, St. Peters, MO 63376. Dy: (314) 263-1685. Res: (314) 441-9778. W: Sandra. M.: B. Dec 3. Job: UH-1 Sys Engr, AVSCOM. GS: 14. 2 yrs. Educ: Parks Coll, BSAE. Svc: USA. 2 yrs. AHS.

LUCAS, Chris, (MR.) (M82) 16 Ann Court, Tinton Falls, NJ 07724. Dy: (201) 544-3978. Job: AVRADA, Nav Div, Fort Monmouth. Educ: NYU, BMC; Monmouth Coll, MBA.

LUNDEN, Robert B., (MR.) (M82) (Bob) 22 East End Avenue, Neptune City, NJ 07753. Dy: (201) 544-2917. Res: (201) 988-4580. W: Margaret. B: Dec 16. Job: EW/RSTA Center, USA CECOM, Ft Monmouth. GS: 13. 4 yrs. Educ: Adelphi U, BS; Long Is. U, MS. Svc: USAF. 4 yrs.

LUPU, Michael V., (MR.) (M84) 9332 Talbot, St. Louis, MO 63123. Dy: (314) 263-1575. Res: (314) 263-1729. Job: Gen Engr, USA AVSCOM. GS: 13. Educ: U of Mo - Rolla, BS MS. AHS.

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MABREY, Harold L., (MR.) (M82) 4010 Woodcrest Drive, Florissant, MO 63033. Dy: (314) 263-2306. Res: (314) 831-0404. W: Barbara. B: May 24. Job: Dir of Proc & Prod, USA TROSCOM. GS: 4. 2 yrs. Educ: Lincoln U, BS; GWU, MBA. 2 yrs.

MACARI, Judith K., (MS.) (M81) (Judy) 502 Forest Drive, Collinsville, IL 62234. Dy: (618) 263-3581. Res: (618) 344-4238. B: Aug 2. Job: Supply Tech, AVSCOM. GS: 7. Educ: So. east MO State.

MACRINO, John A., (MR.) (M86) P.O. Box

4111, Ft. Eustis, VA 23604. Dy: (804) 878-2122. Res: (804) 899-9126. W: Dolores. B: Jun 21. Job: Chf, Systems Integrated Br, AAID. GS: 15. Svc: USA. AHS.

MAGER, Michael J., (MR.) (M87) (Joe) 103 Evergreen Drive, Harker Heights, TX 78543. Dy: (817) 287-8329. Res: (817) 680-6317. W: Mary. B: May 24. Job: AVSCOM-LAR, Ft. Hood, USA Avn Sys. GS: 12. 1 yr. Svc: USA. Ret: 80. 20 yrs. AUSA.

MAGUIRE, James T., (MR.) (M86) (Jim) 21 Augusta Drive, Lincoln, NJ 07378. Dy: (201) 544-3512. Res: (201) 747-1345. W: Patricia. B: Aug 7. GS: 13. 7 yrs. Educ: Manhattan, BE; NJ Inst of Tech.

MAJERLE, Mark S., (MR.) (M87) 475 Dover Way, No. 12, Campbell, CA 95004. Dy: (408) 279-7897. Res: (408) 279-7897. B: Jul 27. Job: San Jose Water Co. AHS.

MALONE, Mark J., (MR.) (M87) 3 Terrace Lane, Granite City, IL 62040. Dy: (314) 263-1745. Res: (618) 452-2433. Job: Supv, Cost & Economic Info Sys. GS: 14. 6 yrs. Educ: La Salle, BA; Iowa State, MS.

MANEY, Matthew S., (MR.) (M57) (Matt) 48 Raleigh Road, Newport News, VA 23601. Dy: (804) 678-6528. B: Sep 6. Job: US Army Avn Logistics School, Manpower Req Analyst, Ft. Eustis. GS: 12. 1 yr. Educ: Auburn U, BS. Svc: USA. 7 yrs.

MANUEL, Saavedra, Jr., (MR.) (M87) 3629 Prosper, Corpus Christi, TX 78415. Dy: (512) 939-3726. Res: (512) 853-2433. W: Aurora. B: Oct 27. Job: CCAD, Eng Div. Educ: Del Mar, BS. Svc: USA. 3 yrs.

MARINEAU, Mary M., (MS.) (M85) 7823 Delmont St, St. Louis, MO 63123-3827. Dy: (314) 263-1742. Res: (314) 481-0624. B: Oct 16. Job: AVSCOM. GS: 12. 3 yrs. Educ: U of TX, BS.

MARKEK, Barbara A., (MS.) (M86) (Barb) 11 King James Lane, Atlantic Highlands, NJ 07716. B: Feb 28. Job: Sec For Dir Avionics Tech R&D Activity. GS: 6. 1 yr.

MARROWITZ, Charles R., (MR.) (M83) (Chuck) Pr 4, Box 55, Edwardsville, IL 62025. Dy: (314) 263-3144. Res: (618) 288-3064. B: Mar 4. Job: Chf, BLACKHAWK Sec. Dir of Mat Mgt, AVSCOM. GS: 13. 10 yrs. Educ: Mankato State U, BS. Svc: USA. 6 yrs.

MARLO, Joseph C., (MR.) (M82) (Joe) 5426 Marldo Avenue, St. Louis, MO 63109. Dy: (314) 263-1082. Res: (314) 832-8192. W: Carol. B: Dec 14. Job: Aerosp Engr, AVSCOM. GS: 14. 14 yrs. Educ: Wash U, BSME. Svc: USAF. 5 yrs. AHS.

MARSHALL, Donald C., (MR.) (M85) (Don) 7659 Echo Lane, Jonesboro, GA 30236. Dy: (404) 452-2912. Res: (404) 471-8979. Job: Avn Logis Mgr, HQ Forces Cmd. GS: 12. 7 yrs. Svc: USA. Ret: 76. 23 yrs.

MARTH, Herbert E., (MR.) (M85) (Herb) 3517 Royal Hills Drive, St. Louis, MO 63129. Dy: (314) 263-3836. Res: (314) 844-0978. W: Nancy. B: May 21. Job: Chf, Materiel Readiness Br, AAH, AVSCOM. GS: 14. 8 yrs. Educ: Wash U, Webster U, BA, MBA. Svc: USA. 6 yrs.

MARTIN, Carol C., (MRS.) (M77) 15006 Woodford Way, Bridgeton, MO 63044. Dy: (314) 291-8806. Res: (314) 291-8806. H: Bill. B: Dec 14. Job: Secy-Treas Martin Refrigeration, Inc. GS: 13. 4 yrs. Past Sec, Air Assault Chapter.

MARTINEZ, Stephen M., (MR.) (M82) (Steve)

5247 Abington Road, Florissant, MO 63033. Dy: (314) 263-1274. Res: (314) 355-3198. W: Karen. B: Sep 0. Job: AVSCOM. GS: 14. 3 yrs. Educ: Northwestern State U, BS. Svc: USA. 2 yrs.

MARVIN, Larry D., (MR.) (M86) 934 Cherry Lane, Troy, IL 62294. Dy: (618) 452-4582. Res: (618) 667-4219. W: Linda. Job: DAC Flight Instruc. AVSCOM. W4 USAF, 281st Avn Co., SFAF, IL. 20 yrs.

MASTERS, William W., (MR.) (M60) 1944 Starfield Lane, St. Louis, MO 63131. Dy: (314) 263-1644. Res: (314) 965-0653. W: Lucille. B: Dec 28. Job: Chg Eng Proj Engrg Br. AVSCOM. Dir Engr. USA TSARCOR. GS: 15. 6 yrs. Svc: USAF. 4 yrs.

MATSUI, Claude I., (MR.) (M78) 518 Longwood Drive, Rockville, MD 20850. Dy: (202) 272-0416. Res: (301) 251-0879. W: Sharon. B: Mar 5. Job: Eng Prog Analyst. HQDA Chf of Engrs. Wash DC. GS: 12. Educ: Univ of HI, ERAU. Svc: USA. 14 yrs. AHS. AUSA.

MCCORMACK, Jay A., (MR.) (M87) 104 Chisman Landing, Seaford, VA 23696. Dy: (804) 678-6953. Res: (804) 898-1367. W: Sue. B: Sep 17. Job: Logistic Mgmt Specialist, Dir Of Cpt Dev. USA Avn Log Sch. GS: 12. 1 yr. Educ: Murray State U, BS. Svc: USA. Ret: 65. 21 yrs. AUSA.

MCCRORY, F. Jim, (MR.) (M86) 607 Kent Drive, Dothan, AL 36303. Dy: (205) 255-8001. Res: (207) 793-9870. W: Sue. B: Dec 13. Job: Tech Dir/Aerospace Engr/US Army. GS: 14. 5 yrs. Educ: Auburn U, BS. AHS.

MCCULLOUGH, Judith L., (MRS.) (M82) (Judy) 2805 Northwoods Ln, St. Charles, MO 63033. Dy: (314) 263-1046. Res: (314) 441-0579. B: Jul 25. Job: Protocol Officer, AVSCOM. GS: 11.

MCDONALD, Donald G., (MR.) (M73) (Mac) 6015 Rena, Houston, TX 77092. Dy: (713) 376-2995. Res: (713) 681-1865. W: Carolyn. B: Sep 14. Job: Supvr, Avn Ft Act 62, Tomball. GS: 13. 11 yrs. Educ: BSCE. Svc: USA. Ret: 83. 28 yrs. AUSA.

MCEANEAY, Daniel M., (MR.) (M82) (Mike) 304 Wildbrier Drive, Balthm, MO 63011. Dy: (314) 263-1100. Res: (314) 227-2891. W: Mary Ann. B: Jul 31. Job: Dir of Engrg. USAVSCOM. GS: ES. 2 yrs. Educ: Parks Coll, BS. Svc: USN. 5 yrs. AHS.

McFALLS, Michael, (MR.) (M80) (Mike) 16417 Hollister Crossing, St. Louis, MO 63011. Dy: (314) 263-1333. Res: (314) 458-2565. W: Sharon. B: Oct 26. Job: Chf, Test & Eval Mgt Oic. AVSCOM. GS: 15. 2 yrs. Educ: U.I.L., BS.

MCGINNIS, James D., (MR.) (M87) (Jim) 837 Orleans, Corpus Christi, TX 78418. Dy: (512) 939-3162. Res: (512) 937-5109. W: Martha. B: Mar 30. Job: CCAD. GS: 5. 3 yrs. Svc: USA. 17 yrs.

MCGRADY, Antonietta, (MS.) (M87) (Ton) Rt 3, Box 335-J, Troy, AL 36081. Dy: (205) 255-4709. Res: (205) 566-7910. B: Mar 25. Job: Ops Res. Analyst, Ft. Rucker. GS: 11. 1 yr. Educ: Talladega Coll, BA; U of PA MBA.

McGRATH, Thomas W., (MR.) (M84) 3221 Delor, St. Louis, MO 63111-1731. Job: Safety & Occupational Health Mgr., AVSCOM. GS: 11.

McKNIGHT, John E., (MR.) (M82) 1037 Jennings Sta. Rd., St. Louis, MO 63137. GS: 13.

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McLAUGHLIN, John A., (MR.) (M82) 10174 Havelock, St. Louis, MO 63123. Dy: (314) 263-1360. Res: (314) 849-0943. W: Marcia. B: Dec 1. Job: Dep Program Mgr/AMCPM-ASH-ARMY Helicopter Improvement Program. GS: 15. 6 yrs. Educ: Notre Dame U, BS. MS.

McMULLIN, Robert L., (MR.) (M86) Rt 5, Box 102, Ozark, AL 36360. Dy: (205) 255-3485. Job: Ops Res Analyst, DCD, Ft. Rucker.

McNAUGHTEN, William C., (MR.) (M86) (Bill) 11918 Wexford Place Drive, Maryland Hgts, MO 63043. Dy: (314) 263-2370. Res: (314) 739-1847. B: Sep 21. Job: Computer Prog Analyst, AVSCOM. GS: 12. 2 yrs. Educ: Columbia Coll, Webster U, BA. Svc: USA. 23 yrs.

MEASE, Mellicie K., (MRS.) (M84) 5000 Surrey Court, Fort Worth, TX 76180. Dy: (817) 268-0081. Res: (817) 498-2870. W: Harry. B: Mar 11. Job: Chf Proc & Pdn Dir, USA Ft Rep Off. GS: 14. 1 yrs. Educ: Ft Hays KS U, BS.

MEIER, Cheryl L., (MS.) (M84) 3636 Vago Lane, Florissant, MO 63034. Dy: (314) 263-1480. Res: (314) 921-5806. W: Greg. B: Jan 1. Job: AVSCOM. GS: 12. 1 yr. Educ: U of MO, BSCE.

MERGEL, Ronald R., (MR.) (M71) 4064 Federer Street, St. Louis, MO 63116-2815. Dy: (314) 263-1418. Res: (314) 353-5712. W: Jean. B: Feb 10. Job: Cargo CH-47/CH-54 Hel PMO, Aero Engr AVSCOM. GS: 13. 13 yrs. Educ: Parks Coll, BS.

METZLER, Thomas R., (MR.) (M82) (Tom) RR 1, Box 554, Moro, IL 62067. Dy: (314) 263-2201. W: Nancy. B: Oct 19. Job: Chief, Human Factors Engr, ARI. GS: 15. 2 yrs. Educ: Ohio State U, BS. Svc: USAF. 19 yrs. AHS.

MEYER, Carolyn D., (MS.) (M85) 4040 Schenker, 126, Corpus Christi, TX 78413. Dy: (512) 939-3283. Job: Librarian, AVSCOM. GS: 3.

MILLER, Bradley R., (MR.) (M86) (Brad) 908 Drummond Drive, Ferguson, MO 63135. Dy: (314) 293-1082. Res: (314) 522-6231. W: Susan. B: Jun 15. Job: Aerosp Engr, AVSCOM. AMSAV-NR. GS: 11. 1 yr. Educ: Wash U, U of MO - Rolla, BS. AHS.

MILLER, Glenda C.H., (MS.) (M83) 1146 Borden Drive, Florissant, MO 63031. Dy: (314) 263-1901. Res: (314) 831-5181. B: Dec 18. Job: TROCSDM Logistics Mgmt Spec. GS: 12. 2 yrs. Educ: Columbia Coll, BA, Webster, Svc: USA, USAF. 12 yrs. Past Vp, Linsbergh Chapter.

MILLS, Fred E., II, (MR.) (M86) (Joe) 200 Mastin Avenue, Seaford, VA 23696. Dy: (804) 678-6853. Res: (804) 898-8446. W: Bonnie. B: Jul 25. Job: Logis Mgt Spec, USA Avn Log Sch. GS: 11. 2 yrs. Educ: Bluefield Coll, Assoc Mer. GA Tech, BS. Svc: USAF. Ret: 84. 20 yrs.

MOKRY, Chas. J., Jr., (MR.) (M74) 4916 Delwood, Ste B, Corpus Christi TX 78413-5105. Dy: (512) 939-2651. Res: (512) 991-5097. B: May 14. Job: Eng Svc Cen & Hotline, CCAD. GS: 11. 4 yrs. Svc: USA. 2 yrs.

MONTGOMERY, Miles J., (MR.) (M83) 25 Franjoie Ct, St. Charles, MO 63033. Dy: (314) 263-1971. Res: (314) 928-5916. W: Cheryl. B: Jul 6. Job: APACHE PMO (AVSCOM). GS: 14. 3 yrs. Educ: Parks Coll - St. Louis U, BS.

MORTON, Joseph O., (MR.) (M83) (Joe) 1318 Apollo Drive, Arnold, MO 63010. Dy: (314) 263-2891. Res: (314) 287-2395. W: Linda. B: Feb 21. Job: AVSCOM AMSAV-SPWM. GS: 13. 1 yr. Educ: West TX State, BS; Webster Coll, MBA.

MOSS, Arthur W., (MR.) (M69) (Art) 6017 Fair Avenue, North Hollywood CA 91606. Res: (213) 761-3414. W: Jude. B: Mar 31. Educ: UT State U, BS; San Antonio JC, AA. Svc: USA. 4 yrs. AHS.

MOULDER, Elizabeth H., (MS.) (M85) (Liz) 30 Miraciral Drive, Florissant, MO 63031. Dy: (314) 263-3290. Res: (314) 837-8206. H: Chris. B: Jun 10. Job: Contracting Officer, USAVSCOM. GS: 12. 2 yrs. Educ: Henderson U, BM, U MO, MM.

MUELLER, Donna P., (MS.) (M82) 10015 Winkler, St. Louis, MO 63136. Dy: (314) 263-1046. H: Henry. B: Jul 30. Job: Protocol Asst, AVSCOM. GS: 7. 2 yrs. AHS.

MULLEN, John L., (MR.) (M86) P.O. Box 601, St. Peters, MO 63376. Job: Ops Res Analyst. GS: 12. 15 yrs.

MURPHY, Nancy A., (MS) (M83) HQ AMC Europe, Box 97, APO NY 09333. B: Sep 3. Job: HQ, AMC-Europe AMXEU-OS. GS: 5. 5 yrs.

MURRAY, Jill E., (MS.) (M85) 1543 J Oak Forest Pkwy Ct, Creve Coeur, MO 63146. Dy: (314) 263-3290. Res: (314) 993-6926. B: May 26. Job: Contract Spec, AVSCOM. GS: 11. 1 yrs. Educ: Ind St U, BA.

MYERS, Alice L., (MS) (M87) 155 Bramblewood Dr, St. Charles, MO 63033. Dy: (314) 263-2986. Res: (314) 447-3582. H: Roy. B: Sep 19. Job: Log Mgmt Spec., AVSCOM. GS: 11. 3 yrs.

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NEAL, Sally M., (MS.) (M83) 8640 Olive, Apt. D, University City, MO 63132. Dy: (314) 425-8558. Res: (314) 432-1091. B: Oct 23. Job: EEO Investigator, EEO Commission. GS: 11. 5 yrs. Educ: Harris Teachers Coll, BA. Svc: USAF.

NEALE, James W., (MR.) (M87) (Jim) 329 Breckenridge Dr, Belleville, IL 62221. Dy: (314) 263-3524. Res: (618) 236-1141. W: Nancy. Job: Inventory Mgt Specialist-AVSCOM. GS: 9. 1 yr. Educ: Austin Peay State U, AA. Svc: USA. Ret: 86. 20 yrs. AUSA.

NEILSON, Donna M., (MS.) (M87) (Nee-na) 6448 Industrial Pk Blvd, No. 50, Fort Worth, TX 76180. Dy: (817) 280-7006. Res: (817) 485-6982. B: May 23. Job: Contract Off, Bell Helicopter. GS: 12. 7 yrs. Educ: Seast Mo St, BS.

NELEPOVITZ, Paul F., (MR.) (M85) 7600 East Dos Mueles Rd., Tucson, AZ 85715. Dy: (602) 629-6546. Res: (602) 885-5178. W: Kathleen. B: Jan 29. Job: Army Irr. GS: 13. 4 yrs. Educ: Colorado State U, BS; ERAU, MS. Svc: USA, USC6. 12 yrs. AUSA.

NICHOLSON, William R., (MR.) (M87) (Bill) ASE-PMO, 4300 Goodfellow Blvd., St. Louis, MO 63120. Dy: (314) 263-1477. Res: (314) 447-3823. W: Jean. B: Sep 47. Job: Iowa St U, BS Div ASE. GS: 15. 1 yr. Svc: USA. 2 yrs. AHS.

NIEHAUS, Patricia, (MS) (M77) 4644 Whisper Lake Drive, Apt. 3, Florissant, MO 63033. Dy: (314) 263-1637. Res: (314) 355-3534. B: Nov

20. Job: Secretary, AVSCOM, Direct For Eng. GS: 6, 7 yrs.

NIEMELA, John, (DR) (M76) 217 Lakeside Avenue, Colts Neck, NJ 07722. Dy: (201) 544-4635. Job: Chf, Navigation Div, AVRADA. Educ: CMU, BSEE; Penn, PhD.

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O'BRIEN, Dennis J., (MR) (M80) (O.B.) 617 Lynn, Connetquot, NY 11731. Dy: (512) 939-3161. Res: (512) 937-3226. W: Mary. B: Sep 15. Job: Electronic Equip Inspector, CCAD. GS: 11. 10 yrs. Svc: USAF. 7 yrs.

OCHOA, Diana T., (MS) (M83) 718 Oriole, Corpus Christi, TX 78418. Dy: (512) 838-3357. Res: (512) 937-1662. H: Domingo. B: May 12. Job: CCAD. Educ: Del Mar.

OLEINIK, Leonid, (MR) (M78) (Leo) 1120 Darlene Avenue, Ocean, NJ 07712. Dy: (201) 544-4219. Res: (201) 531-0507. W: Flor. B: May 29. Job: Elect Engr, Proj Engr, AVRADA SAVAAAN, Fort Monmouth. GS: 13. 3 yrs. Educ: Monmouth, BSEE. Svc: USA. 2 yrs.

OLIVER, Roy C., (MR) (M82) Box 336, Portland, TX 78374. Dy: (512) 939-3561. Res: (512) 643-7730. W: Jeanne. B: Jan 2. Job: CCAD. GS: 13. 1 yr. Educ: TX Tech U, BSIE. Svc: USN. 4 yrs.

OLSON, Paul M., (MR) (M84) 2142 Aldrin Rd, Apt 6B, Ocean, NJ 07712. Dy: (201) 544-3843. Res: (201) 544-0063. B: Jan 9. Job: Elect Engr, AVRADA. GS: 9 yrs. Educ: Clarkson, BS.

ORDWAY, Richard C., (MR) (M80) (Dick) 307 Bay Tree Beach Road, Seaford, VA 23696. Dy: (804) 878-6804. Job: Dep Dir, Cbt Dev, USA Avn Logis Sch. GS: 13. Educ: North AL, BS; Central MI, MA. Svc: USA.

ORRELL, Herman M., (LTC) (M63) (Dick) 305 Deerfield Road, Camp Hill, PA 17011. Dy: (717) 770-6309. Res: (717) 761-1261. W: Peggy. B: Dec 10. Job: Logis Mgt Spec (AVN), USALEA Otc of DCSLOG DA. GS: 13. Educ: VA Tech, BS. USA. Ret: 71. 20 yrs. Past Sec, Arizona Chapter.

OTTOLINI, Diane F., (MS) (M81) 27 Lagorce Drive, Chesterfield, MO 63017. Dy: (314) 263-2844. Res: (314) 469-1612. H: Thomas. B: 24 5. Job: Civ Pers Off, AVSCOM/TROSCOM. GS: 15. 6 yrs. Educ: Harris. Vp, Lindbergh Chapter.

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PALLOTTA, Ralph G., (MR) (M85) 195 Broadmere Drive, Florissant, MO 63033. Dy: (314) 263-1112. Res: (314) 837-8160. W: Laurie. B: Jan 7. Job: AVSCOM, Tech App Prog Office. Educ: St John's U, BA; ERAU, MS.

PAOLELLA, Richard, (MR) (M86) 106 Crawford Street, East Orange, NJ 07018. Dy: (201) 544-6897. Res: (201) 676-8633. W: Patricia. B: Sep 18. Job: Proj Leader, USA EW/RSTA Ch, CECOM. GS: 13. 8 yrs. Educ: Upsala Coll, BS. Svc: USAF. AFA.

PAONE, Paolo D., (MR) (M78) 862 Red Oaks Drive, Eberon, NJ 07740. Dy: (201) 544-4369. Res: (201) 229-2978. W: Mildred. B: Jun 30. Job: Project Leader, Doppler AN/AS N-128 AVRADA, Fort Monmouth, NJ. GS: 13. 2 yrs. Svc: USA. 3 yrs.

PARKER, Calvin, (MR) (M87) (Sparks) 4020 Lindell Blvd., Apt. 416, St. Louis, MO 63108.

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Dy: (314) 263-2953. Res: (314) 533-2847. B: Jul 25. Job: Inv Mgmt Spec, AVSCOM. GS: 12. 2 yrs.

PARKER, James A., (MR) (M67) 135 Bridge Avenue, Bay Head, NJ 08742. Dy: (201) 544-2592. Res: (201) 892-0926. B: Mar 28. Job: Electronic Engr, AVRADA, Fort Monmouth. GS: 13. 23 yrs. Educ: Rutgers U, BS MS. Svc: USN.

PARKS, Mary N., (MS) (M86) 4247 Enright, St. Louis, MO 63108. Dy: (314) 263-3764. Job: Inv Mgt Specialist, AVSCOM. GS: 9. Educ: St. Louis U, Forest Park, AA.

PARRIE, Charles W., (MR) (M74) (Bill) 4165 Montegrie Drive, Corpus Christi, TX 78411. Dy: (512) 939-3315. Res: (512) 852-3872. B: Jul 7. Job: Security Off, X-10000 X-3313, CCAD. GS: 12. 7 yrs. Svc: USN. Ret: 73. 22 yrs.

PATANE, Joseph M., (MR) (M87) 315 Royal Village Drive, Manchester, MO 63011. Dy: (314) 263-1130. Res: (314) 227-0545. W: Kallipot. B: Aug 21. Job: Gen Engr, AVSCOM. GS: 12. 1 yr. Educ: Wayne State U, PhD. Svc: USMC. 2 yrs.

PATTERSON, Douglas T., (MR) (M85) (Doug) 6637 Hardwick Drive, Corpus Christi, TX 78412. Dy: (512) 939-2214. Res: (512) 993-8066. W: Marie. B: Dec 25. Job: Ind Engr, PED D-maint, CCAD. GS: 12. 3 yrs. Educ: U of Ky, BA. Svc: USA. 3 yrs.

PERKINS, Bobby R., (MR) (M84) (Doc) 822 Old Farmhouse Road, St. Charles, MO 63033. Dy: (314) 263-1218. Res: (314) 447-6496. W: Shirley. B: May 1. Job: Log Mgmt Spec K346 AVSCOM. GS: 11. 2 yrs. Educ: Athens State, AA. Svc: USA. 6 yrs.

PERKINS, Patricia L., (MRS.) (M85) (Patsy) 1105 Clarion Drive, Corpus Christi, TX 78412-3707. Dy: (512) 939-2973. H: Mike. B: Jun 16. Job: Corpus Christi Army Depot USISCAMC. GS: 13. 1 yr. Educ: Cen St Coll, LSE; SW TX St; Ball St, BA.

PETERSON, Mark A., (MR) (M85) 353 Mason Ridge Drive, St. Charles, MO 63033. Dy: (314) 263-1807. Res: (314) 928-7084. W: Leslie. B: Oct 28. Job: Aerosp Engr, LHX PMO. GS: 13. 4 yrs. Educ: Wichita State U, BS; U of Mo, MS.

PICKETT, Gaines T., (MR) (M81) (Pick) 2305 Dwight, Granite City, IL 62040. Dy: (314) 263-3624. Res: (618) 797-6240. W: Linda. B: May 31. Job: Chf, CH-47/CH-54 Br, Dir, Mat Mgt, AVSCOM. GS: 14. 3 yrs. Educ: U of TN, BS; SIU, MS MBA. Svc: USA. 3 yrs.

PINDLE, Sharon P., (MS) (M87) HQ USAMC Europe, Box 348, APO NY 09333. Dy: (314) 263-1282. H: Willis. B: Jun 14. Job: Log Mgmt Spec, AVSCOM. 13 yrs. Educ: Mercy, BS.

PITTMAN, Bobbie E., (MR) (M87) (Bobbie) Route One, PO Box 71a, New Brockton, AL 36351. Dy: (205) 255-2295. Res: (205) 891-6248. H: John. B: Aug 27. Job: Sec, Indiv & Unit Trng Div, Dir of T&C. GS: 5. 2 yrs. Educ: Enterprise State Jr Coll.

PLATT, Donald L., (MR) (M82) 36 Heather Hill Ln, St. Louis, MO 63132. Dy: (314) 263-3216. Res: (314) 432-0635. B: Nov 21. Job: Dir of Int'l Log, AVSCOM. GS: 15. 1 yr. Educ: U of Mo, BA; Webster Coll, MA. Svc: USA.

PLUMB, Elizabeth G., (DR) (M86) (Dr. Pooch) Route 2, Box 189 B, Newton, AL 36352. Dy: (205) 255-3793. Res: (205) 299-3731. H: Fred. B: Jul 17. Job: Education Spec. GS: 11. 3 yrs. Educ: Nova U, BS, MA, AUSA.

POTTS, Homer W., (MR) (M64) 5245 Stader Lane, St. Louis, MO 63128. Dy: (314) 263-2404. Res: (314) 296-0495. W: Betty. B: Jan 5. Job: Operating Accountant, USA Troop Spt & Avn Mat, TSARCOM, St. Louis, Mo. GS: 11. 4 yrs. Educ: U Coll, Wash U AA. Svc: USN. 4 yrs.

PRATA, Michael W., (MR) (M85) 102 Whispering Oaks Way, Jackson, NJ 08527. Dy: (201) 544-3737. Res: (201) 905-8013. B: Jul 13. GS: 11. Educ: Keon Coll, BA; Monmouth Coll, MS.

PREE, Nina W., (MS) (M87) 11243 Marbella No. 10, St. Louis, MO 63138. Dy: (314) 263-9327. Res: (314) 653-1648. H: Gary. B: May 11. Job: Supply Sys Analyst, TROSCOM. GS: 9. 1 yr. Educ: Talladega Coll, AB, E. TX State U, MS.

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RARICK, Marilyn B., (MS) (M82) 402 Hickory Bend Road, Enterprise, AL 36330. Dy: (205) 255-2241. Res: (205) 347-4241. B: Nov 6. Job: Avn Comm. Skills Office, DDTD, USA Dep Cen. GS: 12. 5 yrs. Educ: SF State U, BA MA; U of Md, Goethe U, AUSA.

RAY, James A., (MR) (M82) (Jim) 3705 Red Hawk Court, Bridgeton, MO 63044. Dy: (314) 263-1100. Res: (314) 739-6352. W: Charlotte. B: Mar 9. Job: Dep Dir, Directorate for Engr, AVSCOM. GS: 15. 3 yrs. Educ: U of TN, BSME; U of MO, MSME, AHS.

RAY, James R., (MR) (M87) (Jim) 312 Aaron Drive, Belleville, IL 62220. Dy: (314) 263-1200. B: Dec 14. Job: Coms Chf, Logistic Asst Rep. GS: 14.

REESE, Alfred G., (MR) (M79) (Al) P.O. Box 671, Forest Park, GA 30051. Dy: (404) 363-5401. Res: (404) 968-4374. W: Neida. B: Apr 5. Job: Supvr, Equip Spec, AVSCOM. GS: 13. 3 yrs. Educ: U of CO, MPA. Svc: USAF. 4 yrs.

REEVES, Charlie O., (MR) (M87) (Chuck) USAFDE, P.O. Box 202, APO SF 96301. W: San. B: Aug 30. GS: 11. 2 yrs. Svc: USA. Ret: 73. 29 yrs. AUSA.

REEVES, Ray J., (MR) (M85) 1741 Star Cove, Corpus Christi, TX 78412-5134. Dy: (512) 838-3434. W: Maria. B: Mar 9. Job: CCAS, Engineer. GS: 11. 2 yrs. Educ: Mech. Engr Tech.

REYNA, Lenell, (MR) (M85) 409 North Russ Street, Sinton, TX 78387. Dy: (512) 939-3948. Res: (512) 364-5320. B: Jan 6. Job: WC30A30, X3948, CCAD. GS: 4. 4 yrs. Svc: USA. 7 yrs.

RICHEY, James M., (MR) (M82) 23 Pilot Hill Drive, St. Peters, MO 63376. Dy: (314) 263-1810. Res: (314) 447-9380. W: Barbara. B: Jan 6. Job: Electron Engr, USA AVRADCOM. GS: 14. 2 yrs. Educ: U of MO, BSEE; Boston U, MSBA.

RICKERSON, Billie, (MR) (M76) (Rick) 10918 Stacy Lane, Corpus Christi, TX 78410. Dy: (512) 939-2319. Res: (512) 241-7147. W: Debra. B: Jun 20. Job: Toolmaker Foreman, CCAD. GS: 12. 2 yrs. Svc: USCG. 6 yrs.

RIVERA-MONER, Jorge, (MR.) (M86) 902 Sandra Plaza, Lakewood, NJ 08701. W: Vivian. B: Sep 7. Job: HQ AVRADCOM, SAVAA-SS, USA. GS: 12. 2 yrs. Educ: U of PR, BS; Fairleigh Dickinson U, MS. AUSA, AFA.

ROBINSON, Charles, (MR.) (M87) (Charlie) 6154 Pointview Lane, St. Louis, MO 63123. Dy: (314) 263-2223. Res: (314) 832-1598. W: Barbara. B: Mar 29. Job: Chf, Small & Disadvantaged Bus Utilization Off, AVRADCOM. GS: 13. 8 yrs. Educ: St Louis U, BA.

ROBY, David R., (MR.) (M85) (Coach) 2474 Indian Tree Circle, Glencoe, MO 63038. Dy: (314) 263-1966. Res: (314) 458-2474. W: Darlene. B: Sep 25. Job: PGSE/ATE Team Ldr, APACHE Prog Mgr. GS: 14. 5 yrs. Educ: St Louis U, BS; Webster U.

RÓCHA, Roland T., (MR.) (M85) (Roley) 717 Santa Anita Drive, Kingsville, TX 78633. Dy: (512) 939-2019. Res: (512) 592-5565. W: Jennie. B: Aug 12. Job: Avionics Mech, WCSD850, X2019. GS: 8. 3 yrs. Educ: Comm Coll of the Air Force. Svc: USAF. Ret: 81. 20 yrs.

RODRIGUEZ, Carlos M., (MR.) (M85) 7010 Copper Mountain Dr., Corpus Christi, TX 78413. Dy: (512) 939-3715. Res: (512) 854-5057. W: Nelda. B: Nov 30. Job: Painter, Eng Div Paint Shop. GS: 9. 2 yrs. Svc: USA. 9 yrs.

RODRIGUEZ, Robert, (MR.) (M85) (Rod) 8202 Running Creek Court, Springdale, VA 22153. Dy: (202) 693-2751. Res: (703) 455-8330. W: Charlotte. B: Nov 12. Job: Communications Specialist, JTC 3A-DCA. GS: 14. Educ: U of TX, BA. Svc: USA. Ret: 82. 20 yrs.

ROSS, Mona, (MS.) (M82) (Tuffy) 19 Townhouse Lane, Corpus Christi, TX 78412. Dy: (512) 939-2478. Res: (512) 992-6655. B: Feb 1. Job: Parts Mgr, Hcpr Engr, CCAD. GS: 9. 3 yrs. Educ: Texas Tech.

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SABOL, Bernadette, S. (MS.) (M82) (Bernie) 2113 Cottage Avenue, Granite City, IL 62040. Dy: (314) 263-2969. Res: (618) 451-7277. B: Sep 1. Job: Chf, Pos Mgt & Class Div, CPO, AVSCOM. GM: 14. 1 yr. Educ: Wash U.

SAENZ, Crecencia, (MR.) (M83) (Chris) 2034 Isala Drive, Corpus Christi, TX 78416. Dy: (512) 939-2011. W: Lucia. B: May 5.

SAMUELI, Brian J., (MR.) (M85) (Sam) 6813 Holiday Lane, Corpus Christi, TX 78414. Dy: (512) 939-2932. B: May 15. Job: Jig and Fixture Builder. GS: 12. 1 yr. Svc: USN. 4 yrs.

SAN MIGUEL, Norma, (MRS.) (M75) P.O. Box 10170, Corpus Christi, TX 78410. Dy: (512) 939-2259. Res: (512) 241-1607. H: Fred. B: Apr 16. Job: Labor Rel Spec, Chf Pers Div, CCAD. GS: 12. 5 yrs. Educ: Corpus Christi State U, BBA MBA, AUSA.

SANDIFER, Alice J., (MS.) (M87) (A) 9233 Edna, St. Louis, MO 63137. Dy: (314) 263-1565. Res: (314) 869-2415. H: Bobby. B: Jul 25. Job: Gen Spc, AVSCOM. GS: 13. 3 yrs. Educ: Webster Coll.

SANDRIDGE, Leslie G., (MR.) (M86) 1261 Ballast Point, Arnold, MO 63010. Dy: (314) 263-2226. Res: (314) 464-0302. W: Judy. B: Nov 12. Job: Ind Spec (Act), AMSAV-PMO. GS: 11. 2 yrs.

SANFILIPPO, Jackie, (MR.) (M78) 758 Burk-

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shire Street, Corpus Christi, TX 78412. Dy: (512) 939-2208. Res: (512) 992-6022. W: Donna. B: Sep 4. Job: Chf Qual Contr Div, Qual Assur Mgr, CCAD. GS: 3. 1 yr. Svc: USN. 4 yrs.

SCHLEPER, Elizabeth J., (MS.) (M82) (B.J.) Route 1, Box 765H, Ingleside, TX 78362. Dy: (512) 939-2921. H: Richard. B: May 27. Job: Prod Contr Parts Spec, CCAD. GS: 9. 6 yrs.

SCHMITZ, Don W., (MR.) (M83) 1090 Marion, Carlyle, IL 62231. Dy: (314) 263-3125. Res: (618) 594-2883. W: Mary Ann. B: Aug 13. Job: Dir of Proc & Prod, AVSCOM AMSAV-P. GS: ES. 4 yrs. Educ: SIU, BS. Svc: USA. 2 yrs.

SCHNEIDER, Mark S., (MR.) (M84) 9816 Lakeford Lane, St. Louis, MO 63123. Dy: (314) 263-2788. Res: (314) 638-1582. W: Janis. B: Apr 27. Job: Cont Officer US Army Avn Sys Cmd. GS: 12. 1 yrs.

SCHODORSKI, Jeannette, (MS.) (M83) 1417 Olive Street, Highland, IL 62249. Dy: (314) 263-3769. B: Jan 23. Job: Inventory Mgt Spec, Dir Mat'l Mgt, AVSCOM. GS: 12. 4 yrs. Educ: SIU, BA.

SCHWIND, Gemma, (MS.) (M83) (Jenny) P.O. Box 18106, Corpus Christi, TX 78418. Dy: (512) 939-2662. Res: (512) 939-9498. B: Oct 16. Job: CCAD, Dir of Info Mngt. GS: 7. 1 yr. Educ: Drury Coll.

SCOTT, Earl D., (MR.) (M82) (Scottie) 402 Rebecca Drive, O'Fallon, IL 62269. Dy: (314) 263-2576. Res: (618) 624-2607. W: Josie. B: Nov 18. Job: II AMSAV AUSCOM. GS: 12. Educ: Webster U, MA; SIUE, MS. Svc: USAF. Ret: 81. 26 yrs. AFA.

SEAMAN, Robert E., (MR.) (M86) (Bob) 460 White Lane, Chesterfield, MO 63017. Dy: (314) 263-1078. Res: (314) 532-8921. W: Charlotte. B: Jul 20. Job: Chief, Adv Concepts Div Aeron Engr. GS: 15. 10 yrs. Educ: U of Iowa, MS, MB.

SEGOVIA, Ignacio, (MR.) (M82) (Igg) 1429 Casa Verde, Corpus Christi, TX 78411. Dy: (512) 939-2039. Res: (512) 854-9796. W: Diana. B: Oct 22. Job: Chf, Mach Rotorcraft, Con Sec, CCAD. GS: 11. 2 yrs. Educ: Corpus Christi St. U, BS. Svc: USMC. 4 yrs.

SEPEDA, Jesse, (MR.) (M82) 4806 Prescott, Corpus Christi, TX 78416. Dy: (512) 939-2528. Res: (512) 853-7140. W: Maria. B: Apr 27. Job: A/C Eng Off Insp Fmn, CCAD. GS: 11. 7 yrs. Svc: USA. Ret: 57.

SHAAK, A. Robert, (MR.) (M89) 414 Suandra, Collinsville, IL 62234. Dy: (314) 263-1221. Res: (618) 345-9967. W: Joan. B: Aug 17. Job: AVSCOM, Chf Acft Sys Br, Integrated Log Spt OTC. GS: 13. 10 yrs. Educ: Academy of Aeron Yfc. Assoc. Svc: USA. 3 yrs.

SACKELFORD, Sandra H., (MRS.) (M87) (Shandy) Route 1, Box 1160, Hayes, VA 23072. Dy: (804) 878-2208. Res: (804) 642-3143. H: James. B: Jul 13. Job: Avn Applied Tech Director, Fort Eustis. GS: 7. 2 yrs. AHS.

SHAMBLIN, Chester H., (MR.) (M78) (Homer) HHC 2nd SvcCOM, P.O. Box 597, APO NY 09160. W: Evelyn. B: Jul 1. GS: 13. 7 yrs. Svc: USA. 4 yrs. Past Vp, Phantom Corps Chapter.

SHANNON, John K., (MR.) (M81) 6946 Perrying Ave, University City, MO 63130. Dy:

(314) 263-1944. Res: (314) 862-1302. W: Linda. B: Dec 22. Job: Logistics Mgmt Div, Office of the PM, Adv. ATK Hel. GS: 15. 4 yrs. Educ: BS Physics, MBA. Svc: USA. 2 yrs. AHS.

SHARPE, Susan B., (MS.) (M84) Route 2, Box 267, Brundidge, AL 36810. Dy: (205) 255-3917. Res: (205) 735-3941. B: Aug 21. Job: Ed Spec, Directorate of Trng & Doc, USAAVNC. GS: 12. 1 yr. Educ: Troy State U, BS ED MS, Sch Admin. AUSA.

SHAWN, William W., (MR.) (M83) (Bill) P.O. Box 513, Fort Rucker, AL 36362. Dy: (205) 255-2520. Res: (205) 774-4089. B: Apr 28. Job: Br Chf, ARNG Multi-Media Br, Army Avn Div. NGB. GS: 13. 3 yrs. Educ: U of TN, BS; Troy U, MS. 29 yrs.

SHERWOOD, Walter M., (MR.) (M74) (Walt) 7-11 Vreeland Road, Florham Park, NJ 07932. W: Elizabeth. B: Nov 4. Job: LSI Avionic Systems Corp., Educ: Newark Coll of Eng, BS. Svc: USA. 3 yrs.

SHIPLEY, John L., (MR.) (M82) Aviation Applied, Technology Directorate, Fort Eustis, VA 23604-5577. Dy: (804) 878-2000. Res: (804) 877-6296. W: Betty. B: Mar 4. GS: ES. 3 yrs. Educ: NC State Coll, BS; NC State U, MS. Svc: USA. 2 yrs. AHS, AUSA.

SHORT, M.L., (MR.) (M87) 1242 Stephemridge Drive, St. Charles, MO 63003. Dy: (314) 263-2543. Res: (314) 441-7601. W: June. B: Nov 19. Job: AVSCOM. GS: 11. 5 yrs. Svc: USA, USAF. Ret: 83. 30 yrs.

SILVA, Joseph, (MR.) (M85) (Joe) USMCA Base Ops, Box 106, APO NY 09457. W: Lucia. B: Nov 24. GS: 11. Svc: USAF. Ret: 83. 23 yrs. AUSA, AFA.

SIMPSON, Constance M. (MS.) (M83) (Connie) 10 Hanson Drive, Granite City, IL 62040. Dy: (314) 263-3524. Res: (618) 797-0639. H: Jack. B: Jun 2. Job: Inventory Mgmt Spec, AVSCOM. GS: 12. 3 yrs.

SINGLEY, Geo. T., III, (MR.) (M79) 9912 Shady Slope Court, Fairfax Station, VA 22039-2924. Dy: (314) 263-2178. W: Maxine. B: Mar 29. Job: Prog Ex Officer, Cbt Sup Avn Doa. 2 yrs. Educ: U DE, BEA; M&M, MBA; Old Dominion U, Me. 2 yrs. AHS.

SKROBARCEK, Eugene V., (MR.) (M78) (Gene) Route 1, Box 129-A, Sinton, TX 78387. Dy: (512) 939-3783. Res: (512) 364-1324. W: Janice. B: Jan 19. Job: Engine Assy Br Chf, CCAD. GS: 16. 1 yr. Educ: CCSU, BBA. Svc: USA. 3 yrs.

SMITH, Gary L., (MR.) (M81) (Gary) 514 Fox Pointe Drive, St. Charles, MO 63003. Dy: (314) 263-1070. W: Ida. B: Sep 24. Job: Dir of Adv Sys, AVSCOM. GS: ES. 3 yrs. Educ: Bradley, BS; Webster, MA. Svc: USAF. 5 yrs. AHS, AUSA, NEB.

SMITH, Kathy L., (MS.) (M86) 4124 Tanager, Apt. B, St. Louis, MO 63129. Dy: (314) 263-1380. B: Aug 12. Job: AVSCOM. GS: 5. 1 yr.

SMITH, Paul J., (MR.) (M80) (P.J.) P.O. Box 191, Salmon, ID 83467. Dy: (208) 865-2383. Res: (208) 756-2623. W: Mary Anne. B: Apr 2. Job: Hcpr Mgr, Salmon Nat'l Forest. GS: 6. 3 yrs. Educ: ID State U.

SORRELLS, Ronald R., (MR.) (M80) (Ron) P.O. Box 87, 6 South Johnson Street, Samson, AL 36477. Dy: (205) 255-6195. Res: (205) 898-2011. W: Emma. B: Sep 25. Job: Chf, Alcohol/Drug Abuse Div, Dir Pers & Comm Act.

GS: 12. 6 yrs. Educ: Troy State U, BS MS. Svc: USMC. 4 yrs. AUSA.

SOTERPOULOS, Edwin J., (MR.) (M86) (Ed) 4766 Bramble Berry Drive, St. Louis, MO 63129. Dy: (314) 263-1112. Res: (314) 994-3184. W: Linda. Job: AVSCOM AMSAV-8, Aero Engr. GS: 13. 2 yrs. Educ: Parks Coll, BS; Golden Gate U, MBA. Svc: USAF. 4 yrs. AHS.

SPANN, Jane F., (MS.) (M75) 3409 Meadow Ridge, Corpus Christi, TX 78418. Dy: (314) 937-2643. Res: (512) 937-3022. B: Jul 21. Job: Secy, CCAD. GS: 4. 10 yrs. Educ: U of TX, MA.

SPOONER, Shirley M., (MS.) (M84) 12916 Cedaridge, Creve Coeur, MO 63146. Dy: (314) 263-1925. H: Kevin. B: Nov 15. Job: AMC AVSCOM, Advance Attack Helicopter. GS: 12. 3 yrs.

SPRAGUE, Lee F., (MR.) (M87) 1255 Coral Bells Ct, St. Louis, MO 63122. Dy: (314) 414-1619. W: Eleanor. B: Jan 29. Job: 7145405621. Svc: USMC. 2 yrs. AHS.

STANFORD, Don L., (MR.) (M83) 9511 Howerton Drive, St. Louis, MO 63123. Dy: (314) 263-3139. Res: (314) 638-0195. W: Janet. B: Sep 19. Job: AVSCOM. GS: 13. 5 yrs. Educ: Wash U; St. Louis U; Meramec JC.

STEELE, John A., (MR.) (M87) 309 N Sappington, St. Louis, MO 63122. Dy: (314) 263-1986. Res: (314) 965-1065. W: Patricia. B: Sep 28. Job: Team Ldr, TADS/PAUS PMO USAAVSCOM SST MO. GS: 14. 3 yrs. Educ: W. VA U, BSAA.

STEIGER, Arthur J., (MR.) (M83) (Art) 810 Bergquist Drive, Manchester, MO 63011. Dy: (314) 263-3447. Res: (314) 394-3597. W: Trudy. B: Aug 31. Job: Computer Prog Analyst, USAAVSCOM. GS: 12. 11 yrs. Educ: WA U, BS; Webster U, MA. 2 yrs.

STEWART, Edna Roma, (MS.) (M85) (Roma) 7208 Jenwood Street, St. Louis, MO 63136. Dy: (314) 263-1794. Res: (314) 381-1487. B: Feb 25. Job: Secretary/AVSCOM. GS: 5. 6 yrs.

STINCHCOMB, Mary Jo, (MS.) (M84) 203 North Union Avenue, Havre de Grace, MD 21078. H: B.J.. B: Mar 9. Job: Mil Personnel Spec (Reserve), USA. GS: 9. 2 yrs. Educ: U of Baltimore, AA.

STOOPS, Lewis E., (MR.) (M85) (Lew) 326 Clearview Drive, Corpus Christi, TX 78418-4004. Dy: (512) 939-2660. Res: (512) 939-7350. W: Linda. B: Nov 14. Job: WCS4000, X2660, CCAD. GS: 9. 2 yrs. Educ: Nat'l U, BBA; Webster U, MA. Svc: USN. Ret: 83. 20 yrs.

STOREY, Catherine E., (MS.) (M85) 8210 West Main Street, Belleville, IL 62223. Dy: (314) 263-3290. Res: (618) 397-1973. B: Mar 16. Job: Contract Spec, USAVSCOM/AMSAV/PAEG. GS: 9. 3 yrs. Educ: Birmingham Southern Col, BA.

STORTZ, Melvin L., (MR.) (M82) (Mel) 2840 Erb Court, St. Louis, MO 63129. Dy: (314) 263-2118. W: Carolyn. B: May 15. Job: Supv Contract Spec, AVSCOM. GS: 14. 13 yrs. Educ: BA. Svc: USA. 3 yrs.

STRONG, Marian H., (MS.) (M83) 2225 Hummingbird Lane, Florissant, MO 63033. Dy: (314) 263-2157. Res: (314) 838-9149. B: Jul 5. Job: AVSCOM AMSAV-RT. GS: 12. 9 yrs.

STRUB, Sandra L., (MS.) (M74) 4417 Cobblestone Lane, Corpus Christi, TX 78411-4917. Dy: (512) 939-2905. Res: (512) 853-3605.

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B: Sep 6. Job: Chf Prod Mgt Div, Corpus Christi Depot. GS: 12. 4 yrs. Educ: Brigham Young U. Past Vp, Corpus Christi Chapter.

STUPPI, Charles J., Jr. (MR.) (M80) 252 East Louis Place, Iselin, NJ 08830. Dy: (201) 544-4664. W: Gloria. B: Jun 21. Job: Comm Sys Br Chf, AVRADA. GS: 14. 8 yrs. Educ: Newark Coll, BSEE; Stevens Inst. MS.

SUETA, Theodore J., (MR.) (M66) (Ted) 1212 Del Road, Wayside, NJ 07712. Dy: (201) 544-3967. Res: (201) 493-3669. W: Joyce. B: Feb 24. Job: Assoc Tech Dir, CECOM. GS: 15. Educ: Syracuse U, BEE; Stevens Inst Tech, MMS. Svc: USA. AHS, AUSA.

SUEVER, William H., (MR.) (M85) (Bill) RR 2, Box 378, Belleville, IL 62221. Dy: (314) 263-2636. Res: (618) 632-2922. W: Mary Ellen. B: Jan 27. Job: Depot Prod AMSAV-MDPP, Dir for Maint, AVSCOM. GS: 11. 3 yrs. Educ: Belleville Coll. Svc: USA. Ret: 70. 3 yrs.

SUTTON, James, (MR.) (M87) (Jim) 912 Coral Drive, Fairview Hgts, IL 62208. Dy: (314) 263-1592. Res: (618) 624-6605. W: Gloria. B: Jan 18. Job: Logis Mgmt Spec, AVSCOM. GS: 12. 8 yrs. Svc: USA. Ret: 71. 22 yrs.

SWIEDER, Robert F., (MR.) (M86) (Bob) 84 Clearview Drive, Tinton Falls, NJ 07724. Dy: (201) 532-0115. Res: (201) 747-5267. W: Janice. Job: Chf Computer Sys Br, US Army Avionics R&D Activity, GS: 14. 3 yrs. Educ: Newark Coll of Eng, BS; Fairleigh, MS.

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TALLEY, Bill L., (MR.) (M87) UASSB, SFTS Detachment, APO NY 09165-0122. W: Theresa. B: Apr 29. Job: Quality Assurance Spec. GS: 11. 2 yrs. Educ: Tacoma CC, Wash State, AS. Svc: USA. Ret: 85. 21 yrs.

TALLEY, Leticia, (MS.) (M85) Rt 1, Box 518, Antlers, OK 74523. B: May 6. Job: 4/11th ACR. GS: 4. 2 yrs. Svc: USA. 6 yrs.

TAYLOR, Ronie L., (MR.) (M84) 3504 Conn., St. Louis, MO 63118. Dy: (314) 263-1766. W: Christine. B: Jun 16. Job: USAVSCOM. GS: 13. 2 yrs. Educ: Parks Coll, BS ABE.

TERNAK, Barbara R., (MS.) (M83) 6005 Lemay Ferry Road, Mehlville, MO 63129. Dy: (314) 263-2267. H: John Sr. B: Nov 1. Job: Competition Advocate, USA TROSCOM. GM: 14. 2 yrs. Educ: St. Louis U, ASC, BS.

THOMPSON, Karen G., (MS.) (M83) 1639 Tallman Lane, St. Louis, MO 63138. Dy: (314) 263-1335. Res: (314) 355-8068. B: Sep 12. Job: USAVSCOM. GS: 11. 1 yr. Educ: St. Louis Comm Coll, AAS.

TIERCE, Richard E., (MR.) (M82) (Dick) 155 T Road, Collinsville, IL 62234. Dy: (314) 263-3954. Res: (618) 344-8086. W: Nancy. B: Feb 12. Job: Ch Maint Engr Mgmt Br, AVSCOM. GS: 14. 4 yrs. Educ: Texas Tech-ubbock, BSIE. Svc: USN. 4 yrs.

TILBURY, Raymond E., (MR.) (M84) (Ray) 5005 Moultrie Drive, Corpus Christi, TX 78413. Dy: (512) 939-2478. Res: (512) 991-7659. W: Dorothy. B: Nov 13. Job: Dir Of Maint, 52C20, X2478, CCAD. GS: 5. Educ: OK City U, BA. Svc: USA. 1 yr.

TOMLIN, Glenn P., (MR.) (M82) Route 1, Box 13 AC, Beaufort, MO 63013. Dy: (314) 263-1810. W: Kathy. B: Jul 12. Job: Electron Engr, AVSCOM, LHX PMO. GS: 14. 3 yrs. Educ: U Of Mo - Rolla, BSEE. Svc: USAF. 18 yrs.

TORRES, Manuel, (MR.) (M85) (Manny) 1505 Clodion Drive, Corpus Christi, TX 78404. Dy: (512) 939-3609. Res: (512) 884-3930. W: Velma. B: Jan 4. Job: Bearing Reconditioner Foreman, CCAD. GS: 8. 6 yrs. Educ: Tex A & I, BBA. Svc: USA. 3 yrs.

TRENT, Thelma, (MS.) (M87) 19 Pinehurst Ct, St. Peters, MO 63376. Dy: (314) 263-1216. H: Ben. B: Sep 17. Job: AVSCOM, Int'l Logistics. GS: 7. Educ: Fayette Tech Inst, Columbia Coll.

TREVEY, Betsy, (MS.) (M87) 4570 Laclede, No. 103, St. Louis, MO 63108. Dy: (314) 263-2540. H: Bill. B: Aug 11. Job: AH-84 Systems Sec, AVSCOM. GS: 13. 3 yrs. Educ: Ohio State U, BA.

TRIVINO, Adolfo, (MR.) (M82) (Al) 1809 Whiting Drive, Corpus Christi, TX 78415. Dy: (512) 939-2317. Res: (512) 882-6435. W: Soledad. B: Jul 3. Job: Supv Supply Sys Anal, Admin & Sys Br, Prod Plan & Cont Div, CCAD. GS: 12. 6 yrs. Svc: USA. 2 yrs.

TRIVINO, David, (MR.) (M86) 6013 Choctaw, Corpus Christi, TX 78415. Dy: (512) 939-2178. Res: (512) 992-6384. W: Eila. B: Jun 15. Job: Expeditor, CCAD. GS: 6. 6 yrs. 5 yrs.

TSCHOEPE, James, (MR.) (M78) (Jim) 5218 Hitching Post, Corpus Christi, TX 78415. Dy: (512) 939-2426. Res: (512) 853-6325. W: Linda. B: Feb 7. Job: Actg Engr Overhaul Inspector Supr, CCAD. GS: 11. 6 yrs. Educ: Del Mar. 6 yrs. Vp, Corpus Christi Chapter. Past Vp, Corpus Christi Chapter.

TSOUBANOS, Christos M., (MR.) (M74) (Chris) 14223 Tullytown Court, Chesterfield, MO 63017. Dy: (314) 263-1074. W: Irene. B: Dec 15. Job: Chf. Sys Tech, Dir Of Adv Sys, USA AVRADCOM, St. Louis. GS: 15. 2 yrs. Educ: U of NH, BS; Princeton, Ms. Svc: USA. Ret: 70. 2 yrs. AHS.

TURNBULL, Robert C., (MR.) (M83) (Bob) 1506 Valley Forge Drive, Collinsville, IL 62234. Dy: (314) 263-2846. Res: (618) 345-4013. W: Jeannette. B: Jun 18. Job: Supervisory Maint. Programs Spec, AVSCOMDMF. GS: 14. 3 yrs. Educ: SIU, BS. Svc: USN. 4 yrs.

TURNER, Gary M., (MR.) (M87) 8 Carriage Way West, St. Peters, MO 63376. Dy: (314) 263-2273. Res: (314) 441-5156. W: Patricia. B: Apr 12. Job: AVSCOM. GS: 13. 13 yrs. Educ: U Of Mo, BS; SE MO State U, BS. 18 yrs.

TURNER, Ralph, (MR.) (M86) 55th Avn Co, Box 203, APO SF 96301. W: Sonoma. B: Sep 6. Job: OSAN A/B Korea, Flying Tiger Airline. Svc: USA. Ret: 73. 22 yrs.

UUUUUUUUU

ULSETH, Vickie K., (MS.) (M84) 5738 Cain, Corpus Christi, TX 78412. Dy: (512) 939-3447. Res: (512) 991-3236. B: Jul 19. Job: Ind Eng Tech, CCAD. GS: 6. 1 yrs. Educ: Del Mar, AA; CCSU, BA.

UPPAL, Mohammed L., (MR.) (M83) 1831 Lanecourt Drive, St. Louis, MO 63136. Dy: (314) 263-2625. Res: (314) 867-6474. W: Azaz. B: Feb 2. Job: Gen Engr, AVSCOM. GS: 12. 5 yrs. Educ: Wayne State U, BS.

VALIGORA, Darlene L., (MRS.) (M82) 1306 Harbor Village Drive, Corpus Christi, TX 78412. Dy: (512) 939-2517. Res: (512) 993-3884. H: Mrg John M. B: Sep 19 yr. Upholstery Shop, CCAD. GS: 7. 3 yrs. Svc: AUSA.

VANBOVEN, Vera E., (MS.) (M87) 920 Hartford Place, St. Charles, MO 63301. Dy: (314) 263-2518. Job: Equip Spec, AVSCOM. GS: 5.

VARK, Charles E., (MR.) (M83) (Charlie) 1525 E. Indigo, Mesa, AZ 85203. Dy: (602) 891-6926. Res: (602) 827-0393. W: Evelyn. Job: Sr Proj Engr, McDonnell Douglas Helicopters. GS: 14. Educ: U of MO BSEE. Svc: USA. 2 yrs.

VARNEY, Ronald P., (MR.) (M85) 1309 Fall County, Wheeling, IL 60090. Dy: (312) 657-2122. Res: (312) 541-2811. W: Insa. B: Sep 21. Job: Aircraft Worker, USARAF No. 26. GS: 7. 25 yrs. Svc: USA. 16 yrs.

VELA, Jose A., (MR.) (M83) 1212 Range Street, Alice, TX 78332. Dy: (812) 939-2185. Res: (512) 664-0239. W: Maria. B: Jun 19.

VELLECA, Paul R., (MR.) (M83) 11966 Beaverton Drive, Bridgeland, MO 63044. Dy: (314) 263-1221. Res: (314) 291-3064. W: Kathleen. B: May 7. Job: Log Mgmt Spec AVSCOM AMSAV-LFF X1221. GS: 12. 3 yrs. Educ: Webster Coll, MA. Svc: USAF. Ret: 88. 30 yrs.

VENVERLOH, Bernard J., (MR.) (M80) (Bernie) 5075 Yorktown Blvd., Arlington, VA 22207. Dy: (703) 274-8556. W: Joan. B: Dec 4. Job: Gen Engr, HQ AMC, Dir/Smt, Acft Br. GS: 14. 7 yrs. Educ: Wa U, BSME. Svc: USN.

VILLARREAL, Rodolfo. (MR.) (M85) 1620 Caldwell St, Corpus Christi, TX 78401. Dy: (512) 939-3987. Res: (512) 939-3987. W: Maria. B: Dec 1. Job: Acft Engr Repairer, WCCS26. CCAD. GS: 9. 20 yrs. Svc: USA.

WWW - ZZZ

WACHTEL, James F., (MR.) (M87) 17 Dianne Drive, Belleville, IL 62220. Dy: (314) 263-1986. Res: (618) 233-1697. W: Ann. B: Apr 28. Job: Engr For TADS/PNVS PM Office, AVSCOM. GS: 13. Educ: Parks Coll/St. Louis U, BS.

WADDY, Ronald E., (MR.) (M87) 309 Saugat Avenue, Chokio, IL 62206. Dy: (314) 263-2637. Res: (618) 337-9800. W: Harriet. B: Oct 24. Job: Acft Equip Spec, AVSCOM. GS: 11. 1 yr. Ret: 82. 21 yrs.

WALDMAN, Steven B., (MR.) (M82) 5 Victoria Court, Morganville, NJ 07751. B: Jan 16. GS: 13. 4 yrs. Educ: Monmouth Coll, BSEE, MSEE.

WALDRUP, William D., (MR.) (M84) 720 Southgate Drive, Belleville, IL 62223. Dy: (314) 263-1955. Res: (618) 398-5592. H: Jerry. B: Jan 3. Job: Equip Spec Aircraft, USA AVSCOM. GS: 12. 19 yrs. Svc: USAF. Ret: 61. 21 yrs.

WALKER, Paul S., (MR.) (M85) Attn AMCPM-TND-PM, Naval Training Center, Orlando, FL 32813-7100. Dy: (305) 846-5550. Res: (305) 898-0523. B: Dec 22. Job: Acft Prod Mgr Avn Trng Dev, PM Trade. GS: 14. 2 yrs. Educ: W Va U, BS. Troy St U, MS. Svc: USA. Ret: 68. 24 yrs. AUSA.

WALKLING, Robert L., (MR.) (M83) (Bob) 2899 Black Oak Drive, Imperial, MO 63052. Dy: (314) 263-1789. Res: (314) 266-0747. W: Marie. B: Apr 24. Job: Div Chf, Acft Qual Mgt Div, Prod Assur Dir, AVSCOM. GS: 14. 10 yrs. Educ: Webster U, BA MA. Svc: USMC. 4 yrs.

WALTERS, Richard C., (MR.) (M85) (Rich)

The 1987 Aviation Officer

2078 Duclair Parkway, St. Charles, MO 63303. Dy: (314) 263-1918. Res: (314) 947-3418. B: Oct 27. Job: Chf, Maint and Inh Br, Logistics Mgt Div, Apache PMO AMCPM-TAG-LMM. GS: 14. 10 yrs. Svc: USN. 4 yrs.

WALTON, Donald R., (MR.) (M78) (Big Dad) 6317 N. Washam, Corpus Christi, TX 78414-3631. Dy: (512) 939-3262. Res: (512) 993-3478. W: Donna. B: Sep 22. Job: Jet Engr Mechanic. GS: 10. 2 yrs. Svc: USA. 2 yrs.

WARD, Marlene W., (MS.) (M87) 6853 Julian, St. Louis, MO 63130. Dy: (314) 263-1590. Res: (314) 863-9223. H: Charles. B: Nov 8. Job: Budget Analyst, AVSCOM. GS: 11. 2 yrs.

WEINFELDT, John C., (MR.) (M84) 34 Eastern Parkway, West Caldwell, NJ 07006-7216. Dy: (201) 544-2849. Res: (201) 575-0245. B: Jul 31. Job: Electronics Engr, Avionics R&D, Ft. Monmouth. GS: 12. Educ: U of DE, BEE, AHS.

WELLER, David J., (MR.) (M78) (Dave) 5567-D Waterman Blvd., St. Louis, MO 63112. Dy: (314) 263-1012. Res: (314) 361-0013. B: Apr 7. Job: Assoc Tech Dir, AVSCOM. GS: 15. 7 yrs. Educ: Purdue, BSME; Webster, Svc: USA. Ret: 69. 2 yrs. AHS.

WENNER, Donna M., (MS.) (M85) 3402 Ocean Drive, No. 21, Corpus Christi, TX 78411. Dy: (512) 939-3833. Res: (512) 857-8722. B: Aug 3. Job: Computer Spec, CCAD. GS: 12. 3 yrs. Educ: Monmouth, AA, BA.

WENRICH, John L., Jr. (MR.) (M84) (John) 306 Arrowhead Drive, Enterprise, AL 36330. Dy: (205) 255-4510. Res: (205) 347-3647. W: Marion. B: Aug 10. Job: Accident Investigator, USAC, Fort Rucker. GS: 12. 7 yrs. Svc: USMC. Ret: 71. 21 yrs.

WEST, J. B., (MR.) (M83) 4004 Stonehaven Drive, Colleyville, TX 78034. Dy: (817) 334-9960. Res: (817) 354-4815. W: Barbara. B: Dec 21. Job: Asst Chf Mill Br, Corps of Engrs, Ft Worth. GS: 13. 10 yrs. Educ: Texas Tech, BS. Svc: USA. 22 yrs.

WHITE, John W., (MR.) (M79) 626 Haystack Lodge, Rd., Newport News, VA 23602. Dy: (804) 678-2413. Res: (804) 677-1142. W: Josie. Job: Chf Aero Tech Div, Avn Applied Tech Directorate. GS: 15. Educ: NC State U, BME; GWU, MS. 3 yrs. AHS, AUSA.

WHITE, Lucille J., (MS.) (M80) 5985 McArthur, St. Louis, MO 63120. Dy: (314) 263-2953. Res: (314) 383-0634. H: Willie. B: Dec 3. Job: Superv. Invntory Mgmt Spec, AVSCOM. GS: 13. 1 yr. Educ: St Louis CC; UMSL.

WHITE, Marjorie P., (MS.) (M85) (Margie) Rt 11, Box 30, Dothan, AL 36301. Dy: (205) 255-4503. Res: (205) 792-4906. H: Emmett. B: Jan 27. Job: Civ Pers. Off, USAFVNC, Ft. Rucker. GS: 14. 3 yrs. Educ: U of Al, BS.

WILBUR, Sharon Faye. (MS.) (M86) (Faye) Cdr, HD TCATA, Attn: ATCT-SPT-1T, Fort Hood, TX 76544-5065. Dy: (817) 288-1213. B: May 16. Job: Librarian Phys Science-Engr, TCATA Tech Library. GS: 11. Educ: TX Woman's U, BA; MLS.

WILLIAMS, Larry T. (MR.) (M78) P.O. Box 1714, Corpus Christi, TX 78403. Dy: (512) 939-3660. Res: (512) 992-3383. W: Pat. B: Oct 19. Job: Acft Exam/CCAD. Svs: USAF. 4 yrs.

WILLIAMSON, Tyrone D., (MR.) (M86) (Frank) 10064 Neville Walk, Apt. F, St. Louis, MO 63136. Dy: (314) 263-9327. Res: (314) 869-1044. W: Patricia. B: Dec 6. Job: Supv. Sys Anal, TROSCOM. GS: 9. 1 yr. Educ: St Martins Coll, AA; Pierce Coll, At. Svc: USA. 9 yrs.

WILSON, Billy G., (MR.) (M83) 8112 Killammet, Corpus Christi, TX 78413. Dy: (512) 939-3413. Res: (512) 854-3947. W: Barbara. B: Jan 10. Job: Avscm Engr. GS: 13. 4 yrs. Educ: U of Al, BSME. Svc: USAF. 4 yrs. AHS.

WINKLER, James P., (MR.) (M85) 2026 Parslow Drive, Chesterfield, MO 63017. Dy: (314) 263-1418. W: Nancy. B: Jun 15. Job: Chf Tech Mgmt Div, CH-47, AVSCOM. GS: 10. Educ: Parks Coll, St. Louis U.

WITHERSPOON, Cysler. (MR.) (M87) 5731 Vernon St, Long Beach, CA 90815. Dy: (213) 305-5604. Res: (213) 431-6081. W: Vilma. B: Mar 12. Job: Qual. Assurance Specialist-Elect-DOD USARPPO. GS: 11. 4 yrs. Educ: Long Beach City Coll, AA. Svc: USN. 12 yrs.

WITTY, Eugene C., (MR.) (M76) P.O. Box 94, Independence, KS 67301. Res: (316) 331-1488. B: Dec 5. Job: DOA, Teledyne Independence, QA Rep. GS: 10. 1 yr.

WOOLVERTON, Harry T., (MR.) (M70) 4782 Hanroy Drive, St. Louis, MO 63128. Dy: (314) 263-1301. Res: (314) 892-1656. W: Audrey. B: Jul 8. Job: Aerosp Engr, AVSCOM. GS: 13. 13 yrs. Educ: Kansas State, BSME.

WORTH, Calvert L., (MR.) (M76) 6637 Foothills Court, Florissant, MO 63033. Dy: (314) 263-1376. Res: (314) 355-6054. B: Jul 24. Job: Dep Dir, Mat Mgt, AVSCOM. GS: 15. 3 yrs. Educ: St Louis Community, AA. Svc: USA.

WRIGHT, Larry E., (MR.) (M83) 3028 Imperial, St. Charles, MO 63303. Dy: (314) 263-2115. Res: (314) 447-6544. W: Joyce. B: Jun 15. Job: Dir AISA, AVSCOM. GS: 13. 4 yrs. Educ: MO U, BS; MO U - Rolla, MS. Svc: USA. 2 yrs.

WUNDER, Dennis E., (MR.) (M78) (Den) P.O. Box 18395, Corpus Christi, TX 78418. Dy: (512) 939-3123. Res: (512) 937-3774. B: Jan 28. Job: Acft Jt USA Engr Mech, CCAD. GS: 10. 19 yrs. Svc: Jet, USA, USAF. 6 yrs.

WUYSICK, Edward F., (MR.) (M84) (Ed) 32 Woodside Drive, Howell, NJ 07731. Dy: (201) 544-3924. Res: (201) 370-2453. W: Leslie. B: Jan 8. Job: Electronics Engr, AVRAD. GS: 12. 1 yr. Educ: Penn St, BS, AFA.

WYLAND, Joseph L., (MR.) (M87) (Joe) 13132 Fourposter Ct, St. Louis, MO 63146. Dy: (314) 263-1936. Res: (314) 434-2903. W: Susan. B: Apr 11. Job: TARS/PNVS PM USA Avn Svs Cmd. GS: 13. 1 yr. Educ: Wash U, BS, MS. Svc: USAF. 4 yrs.

YOUNG, Marcella S., (MS.) (M84) 4448 Pinoy Jay Court, St. Louis, MO 63128. Dy: (314) 263-1104. Res: (314) 892-7107. B: Aug 8. Job: Chf Integr. Procurement Sys Off, USA- AVSCOM. GS: 14. 5 yrs. Educ: St Louis U, BA.

ZINN, William H., (MR.) (M87) (Will) 240 Neck O Land Road, Williamsburg, VA 23185. Dy: (804) 878-6275. Res: (804) 872-8389. Job: Supr Education Spec, USAAS. GS: 12. 5 yrs. Educ: W Va U, BS. Svc: USA. 4 yrs.

ZUEST, Harro. (MR.) (M72) 4950 Saugouit Lane, Annapolis, VA 22003. Dy: (202) 274-9271. Res: (703) 941-0220. W: Christine. B: Oct 12. Job: Log Mgt Spec, HD AMC, DCS Smt Maint Engr Br, Alexandria. GS: 14. 5 yrs. Educ: Boston U, MBA BS.

The Aviation Brigade launched an air assault of the 3rd Infantry Brigade ... This major move of troops and equipment called for 148 sorties flying a total of 1,849 personnel, 50 external loads, and lasted over five flying hours per aircrew involved.



Eagles - cont. from p. 32

ple and equipment, the Attack Battalions provided route security and screened the air assaults. Additionally, both aerial gunnery and live fire Joint Air Attack Team (JAAT) training was conducted near the FOB.

The brigade flew a total of 227 lift sorties for the 48 hour period of February 24-25 and the daily flying average per aircraft was nearly eight hours.

During the next few days the brigade conducted air assault non-combatant evacuation operations (NEO) in the vicinity of the FOB while insertions of both Pathfinders and the Long Range Surveillance Detachment (LRSD) were also conducted. Major logistic resupply operations and the movement of the Divisional Artillery kept the tempo of the exercise fast.

Major Air Assault

On March 2, the Aviation Brigade launched an air assault of the 3rd Infantry

Brigade into Muhlenberg County, KY, 70 nautical miles NE of Ft. Campbell. This major move of troops and equipment called for 148 sorties flying a total of 1,849 personnel, 50 external loads, and lasted over five flying hours per aircrew involved.

Phase III complete, the scenario now called for aviation assets of the division to provide logistic support, command aviation support to committed units and to support a movement to contact and subsequent attacks by the infantry brigades. Much of the effort during this period was spent in hauling fuel to FARRP sites north of the FOB where the 2/17 Cavalry and two Attack Battalions, the 55th and the 226th were conducting covering force operations under control of the Aviation Brigade Commander. The 1st Infantry Brigade was air assaulted to Ft. Knox 15 nautical miles NE of the FOB by the Aviation Brigade through the 5th of March while the 229th Attack Helicopter Battalion provided

flight route security. This three day period saw aircrews flying an average of over four hours per day and taxed the command and control resource for the Aviation Brigade Headquarters to their limits.

Return to Ft. Campbell

The final phase of the exercise began on March 9 with an air assault to return the Infantry Brigades to Ft. Campbell. The Attack Helicopter and Cavalry units covered this move by locating and destroying enemy armor units attempting to penetrate south into the 101st's area of operations.

Golden Eagle concluded on the 12th of March with the last units closing back at Ft. Campbell in the late afternoon. The Aviation Brigade had proven it was a dynamic and capable organization under its AOE structure. Its overall success was an excellent testimony to its ability to move, shoot, and communicate in a fast-paced, highly fluid scenario under adverse conditions both day (Eagles — cont. on page 50)

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Eagles - cont. from p. 48

and night.

The Aviation Brigade demonstrated daily its capability to provide continuous support to the 101st Airborne Division (Air Assault) over extended, realistic distances meeting logistics problems head on and solving them while on the move.

During the course of "Golden Eagle 87", the Aviation Brigade flew nearly 9,000 hours to include by airframe:

OH-58	1684.1
UH-1	1461.3
UH-60	3069.0
AH-1	1306.9
CH-47	1478.0
TOTAL	8999.3

Rearming and Refueling

During the exercise, the Aviation Brigade sustained itself by providing daily food and water to its personnel. This required resupply of over 145,000 meals and 13,000 gallons of water.

Providing fuel for over 300 helicopters was a tremendous task. Consumption rates in ex-



Providing fuel for over 300 helicopters was a tremendous task. Consumption rates in excess of 90,000 gallons per day were not uncommon.

cess of 90,000 gallons per day were not uncommon. Fuel usage amounted to 1,300,000 gallons of JP-4, 35,000 gallons of mogas, and 40,000 gallons of diesel. The 1.3 million gallons of JP-4 were distributed through CH-47D Mobile Refuel (FATCOW), Rapid Refuel Points (RRP), Forward Area Rearm and Refuel Points (FARRP), and hasty Forward Area Refuel Systems (FARES). During several of the peak periods of activity on the exercise, it was not uncommon to find up to eight separate sites/systems distributing fuel and ammunition to the Aviation Brigade throughout the area of

operations.

"Golden Eagle 87" was an opportunity for the Aviation Brigade, 101st Airborne division (Air Assault) to prove itself as the newest member of the combat arms team in a tough, realistic and demanding environment. The dedication, hard work, and expertise of the unit's 2,900 soldiers was reflected in an outstanding performance which will be the standard for any future operations.

The "Wings of Destiny" Brigade proved itself capable of carrying the 101st forward on its rendezvous with destiny.

Air Assault!



The exercise concluded with an air assault to return the Infantry Brigade to Ft. Campbell.

Hardware:

APACHE: Warrior Moving Out

by Brigadier General William H. Forster



ST. LOUIS, MO — In my last update, I reported that 3d Squadron 6th Cavalry Brigade (Air Combat) — 6C BAC — had completed its Army Training and Evaluation Program (ARTEP) and became the Army's first combat ready APACHE unit.

Strenuous Training Programs

Following 3/6, the 1/6, 2/6 and 5/17 squadrons drew their APACHES, underwent a very strenuous training program, and completed their ARTEPs. In July 1987, 1/227 Attack Helicopter Battalion (AHB) began its training cycle with a slightly different twist, joining the soldiers of the 1st Cavalry Division were crews and support personnel from the 30 AHB, North Carolina National Guard.

When the 1/227 AHB completes its ARTEP in October 1987, the Army not only will receive its 5th APACHE Battalion, but will also have the nucleus of the first Reserve Component APACHE AHB.

The soldiers of the United States Army Aviation Logistics School, Ft. Eustis, (USAALS), were also busy in 1987 performing demonstrations vital to the successful deployment of the APACHE. During June '87,

BG Forster was APACHE Advanced Attack Helicopter Program Manager at the time this article was written — BG Forster is now Combat Aviation PEO (Program Executive Officer).

USAALS successfully demonstrated aerial recovery procedures using CH-47C and CH-47D aircraft and vehicle recovery techniques using organic Army lifting and transport equipment. We are in the process of finalizing these procedures and updating technical manuals, however, the important fact is these procedures are available to support REFORGER '87 and the APACHES in the field.

“REFORGER '87 will be, without doubt, the most challenging test yet faced by the AH-64. APACHE's crews and support personnel will be required to show their stuff round the clock, accomplishing a variety of missions in European weather.”

A Major Event

Without question, the major event in 1987 is REFORGER '87 and the follow-on fielding of the first USAREUR AHB. In August 1987, the 1/6 and 2/6 Squadrons, 6th Cavalry Brigade (Air Combat) — CBAC — moved from Ft. Hood, TX to the port of Beaumont, TX. These two squadrons will participate in REFORGER '87 as APACHES perform in their first annual REFORGER exercise.

REFORGER '87 will be, without doubt, the most

challenging test yet faced by the AH-64. APACHE's crews and support personnel will be required to show their stuff round the clock, accomplishing a variety of missions in European weather.

No Established Base

Further complicating the task of deploying to REFORGER is the fact that the APACHE has not yet been fielded to USAREUR and therefore we have no established support base in the Theater. 6CBAC must initially rely on the tools, test equipment, and repair parts it can carry with it.

We plan to provide support through a network of Army Materiel Command Logistics Assistance and contractor

representatives, orchestrated by the APACHE Transition Team led by LTC Dave Sales. This first time overseas deployment of the APACHE in a tactical exercise under combat conditions, will provide excellent data should we be required to deploy to other theaters of operations.

While REFORGER '87 is our most ambitious undertaking to date, we see this unprecedented deployment of a major weapons system prior to its fielding in USAREUR as an opportunity to (APACHE — cont. on p. 54)

Research and Development:

Rapid Pace Continues at AATD

by LTC Gary T. Downs



FT. EUSTIS, VA — The pace of activity at AATD continues to move rapidly in light of recent events, and major demonstrator programs continue to progress satisfactorily.

ADOCS

The Advanced Digital Optical Control System (ADOCS) Program, a joint project between Boeing Vertol and AATD, is now in the final stages of the User Demonstration Phase. During this phase, Army aviators from all aspects of Army Aviation as well as the other services, NASA, FAA, and private contractors are given the opportunity to fly the "Light Hawk," comment on the experience and give their opinions of the fly-by-light control system. Since the first demo in April 87, over 50 guest/user pilots have participated.

AACT IV

Air-to-Air Combat Test IV (AACT IV) recently concluded at NAS Patuxent River, MD. Test aircraft for this fourth AATD air-to-air combat testing included the AH-64, AH-1F, 406 CS (Bell) and the SA-365N1 (Aerospatiale). Most of the test aircraft were instrumented for structural loads and were equipped with either turreted or fixed laser weapons simulators. These 250 separate one-on-one engagements signi-

LTC Downs is R&D coordinator U.S. Army Aviation Applied Technology Directorate, Ft. Eustis, VA.

ficantly expanded the data base from previous tests and introduced new variables such as turreted weapons, missiles, helmet mounted sights, etc.

Additional Efforts

Additional ongoing air-to-air technology efforts, some of which involved joint participation of ARDEC, MICOM, and TECOM included: improved weapons boresighting system; the identification and quantification of automatic cannon weapon systems error sources; flight test evaluation of air-to-air fire control for automatic cannons and 2.75 inch rockets; and flight test evaluation of 2.75 inch rocket flechette warheads developed for air-to-air application.

ACAP

The follow-on Advanced Composite Airframe Program (ACAP) with Bell and Sikorsky to conduct additional Militarization Test and Evaluation of the ACAP airframes and Flight Test Vehicles is nearing completion. These efforts include drop testing of the landing gear and drop testing of the complete airframe and landing gear system, internal noise flight test evaluation, lightning strike tests, and maintainability and reparability demonstrations.

MTDE

The joint Army/Navy Modern Technology Demonstrator En-

gine (MTDE) program with Pratt & Whitney and General Electric to develop a medium lift size engine for a wide range of applications continues to meet performance goals. The MTDE has demonstrated in excess of 6,000 HP. Extensive testing has resulted in a flight envelope demonstration, hot and cold soak starts, altitude cold start and hot restart tests plus transient operation.

Demonstrator Program

The Logistics R&D Advanced Maintenance Demonstrator Program continues with flight data recorders (FDR) currently installed and operating an AH-64A and UH-60A aircraft at Ft. Rucker. The next generation FDR will be installed and flight tested in both an AH-64A and UH-60A early in 1988.

Fault Isolation

The development of expert systems is also continuing under a program to investigate the feasibility of using artificial intelligence techniques to improve fault isolation. Demonstration and evaluation of these concepts are underway and are showing improved diagnostic accuracy and reduced maintenance times.

AATD has also made significant gains in its safety and survivability technology. Qualification testing was conducted on the wire strike protection system (WSPS) for the AH-64A with the development and testing of a WSPS for the CH-47D scheduled for FY88.

These brief highlights show just a portion of the current work ongoing at AATD to provide the technologies needed for Army aviation to fight and win in the future.

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MORE.

At GE, we take a low risk approach to growing our T700 engines. We build on a proven base while retaining technology leadership. It's an unmatched combination that provides more power and more reliability. Our first step growth models already are demonstrating unprecedented reliability in hundreds of helicopters around the world. Technology infusion allows second step derivatives to grow to 2000 shaft horse power; these versions are nearing qualification with production beginning next year. GE engineers already have designed growth models of 2200-2400 SHP and aren't stopping there.



Aircraft Engines

"The ATHS APACHE will allow the Attack Helicopter Team to exchange vital information without any voice transmission using jam resistant Digital Data Burst techniques in a fraction of the time required by routine voice communications."

APACHE - cont. from p. 51

evaluate the APACHE, our tactics, the support structure, and apply these lessons learned to subsequent fieldings.

At the completion of REFORGER, the 2/6 will move to Illsheim and begin the transition process resulting in their being designated the first USAREUR AHB. The fielding of APACHE tools, test equipment, and repair parts to the 394th Aviation Intermediate Maintenance (AVIM) Bn, supporting the 2/6, will culminate in mid-October when the Electronic Equipment Test Facility (EETF) is delivered.

The EETF gives the AVIM unit the capability to test and repair the major Line Replaceable Units (LRUs) and is the key to successfully supporting the APACHE.

Additional Back Up

Providing further back up for the APACHE soldiers will be the opening of the Martin Marietta Orlando Aerospace (MMOA) repair activity in USAREUR. They will perform depot maintenance in country, which reduces the expensive and time consuming process of returning these parts to CONUS. Other components of the aircraft are also being considered for repair in USAREUR.

In addition to expanding the APACHE fleet to USAREUR,

FY '88 will see the soldiers of the 82d Abn Div and 101st Air Assault Division learning to fly, fight and maintain the APACHE.

WSPS

Also commencing in 2QTR FY '88 will be the installation of the Wire Strike Protection System (WSPS) both on the production line and on fielded aircraft under the Modification Work Order process. We plan to install WSPS in the field using depot or Contractor Field Teams. Detailed schedules and coordination will be accomplished by AVSCOM in the near future.

As you can see, a number of challenges lie ahead!

A look into the future also provides us with a peek at the Advanced Attack AH-64A.

Look sir, no voice! — Airborne Target Handover System/Avionics Integration (ATHS/AI).

The APACHE Advanced Attack Helicopter AH-64A ATHS will allow the APACHE to communicate using jam resistant Digital Data Burst to other similarly equipped systems. Systems that APACHE ATHS/AI will communicate with are: OH-58D AHIP, TACFIRE, Air Defense network, other Digital Message devices, and other APACHES.

ATHS will integrate the control of all the AH-64A's radios. Doppler navigation systems,

and the Data Entry Keyboard with a common Control and display in both the pilot's and copilot-gunner's stations. Additional benefits of the ATHS are the combination of three existing keyboards in the copilot's station into one integrated alphanumeric keyboard, two remote frequency displays, redundant control of all aircraft radios from either pilot or copilot station, and a data loader that can be programmed prior to a mission then loaded into the APACHE to install mission data onboard the aircraft.

The goal of this integration is a 60% reduction of the mission planning, combat target handover and target servicing time sequence for the APACHE.

Vital Information Exchange

The ATHS APACHE will allow the Attack Helicopter Team to exchange vital information without any voice transmission using jam resistant Digital Data Burst techniques in a fraction of the time required by routine voice communications.

This time reduction along with the other battlefield management characteristics of ATHS will enable the Attack Helicopter Team to destroy more targets with greater efficiency and respond faster to the ground commanders' changing needs for APACHE Attack Helicopter Support. IIIII

Partner (continued from page 2)

enlisted aviation soldier, have available to us through AAAAA means to voice our ideas and concepts on how we feel that our profession can grow and continue to improve. We do this by voicing our ideas at Chapter and Regional meetings, the National Convention and to the National Executive Board. I would like to refer again to the list of reasons for joining AAAAA. I have taken the liberty of making some minor changes so that it reads in more generic terms:

My Ten Reasons for Joining AAAAA

① The satisfaction of belonging to a professional organization that represents those involved in Army Aviation. The satisfaction of standing among Aviation Soldiers that are unmatched elsewhere in the world. Other nations are now trying to emulate our professionalism and achieve the results that are now history to Army Aviation.

② The pleasure of belonging that comes with associating with fellow Aviation Soldiers who have shared the excitement, danger, and frustration that is part of aviation. AAAAA brings this feeling into a society that represents Army Aviation.

③ AAAAA assists the Aviation Soldiers through the advancement of knowledge, techniques, and skills, and through programs that feature information direct from the aerospace industry, the FAA, and the Department of the Army.

④ AAAAA serves as a media for voicing your views and exchanging ideas, both through its printed media and through its National and Regional conventions, and 200+ Chapter meetings each year. AAAAA helps disseminate this information through all areas in both the military and civilian community.

⑤ AAAAA is the Aviation Soldier's means of establishing broad policies of specific interest to many segments of our membership. This is one of the most effective means we have in letting our senior military and government leaders know how we feel about contemplated Army policy or present and future laws.

⑥ Special areas of concern to Aviation Soldiers are recognized and supported by AAAAA.

⑦ ARMY AVIATION MAGAZINE is a basic part of AAAAA. It is provided free to all members and gives the latest information on new projects,

aircraft systems, and programs that are of importance to the Aviation Soldier. In addition, special interviews, features, and membership rosters of various categories are provided.

⑧ AAAAA takes special pride in recognizing Army Aviation units and individuals, both on a national and local level. This worldwide recognition is an important contribution to the motivation, pride, and welfare of those in our aviation community.

⑨ AAAAA has always provided special services to its members. Some of these programs and services are well known, such as scholarships, discounts, longevity pins, and unit reunions and photo charts. Others are less well known but have always been a part of AAAAA support of the individual Aviation Soldier.

⑩ The last reason for joining AAAAA is that it is not just an organization, but an international group of fellow aviation personnel and friends of Army Aviation striving not only to further aviation, but to promote a fellowship among all Aviation Soldiers worldwide.

Once again we address the question "Why join AAAAA"? I feel that the real answer is professionalism, in that we should join and be active in those organizations that support us. AAAAA has always been our "silent partner" in the advancement of Army Aviation, but, with its growth and increased capability to support us, it's not quite so "silent" anymore. So get out, join, be active and support those who support us. ■■■■

Another Member's View

by CSM Charles E. Noble,
4th Combat Avn Brigade, 4th Infantry Div (Mech),
Ft. Carson, Colorado

SFC(P) Hawkins has hit the nail on the head! We as soldiers must support those organizations that support us in our profession.

That support will almost always include paying membership dues to an organization. It will also require some of our free time and some involvement (work) on our part. But as the old saying goes "if it's worth having, it's worth working for". In these troubled times of shaky world peace and financial instability, we as professional soldiers, must be prepared to do our jobs in "real time".

We must also support those who work to support us in our profession. So join and support! It's the professional thing to do. ■■■■

Reserve Component:

Aviation Support to Blazing Trails '87

by Major Michael E. Jones

FT. SHERIDAN, IL — From December 1986 to June 1987, Fourth U.S. Army Aviation assets supported the engineer road building exercise Blazing Trails '87 in Honduras.

The primary operational task for the exercise was the completion of a 5.5 kilometer farm-to-market road. United States Army Reserve aviation assets from the 83d U.S. Army Reserve Command (ARCOM), 86th ARCOM, 88th ARCOM, 123d ARCOM, 416th Engineer Command, 85th Division (Training), and the Individual Ready Reserve provided general aviation, aeromedical evacuation, and Aviation Intermediate Maintenance (AVIM) support to the engineer Task Force.

Rotating Force

A rotating force of some 450 aviation personnel took part in the exercise. These reservists were trained, equipped, and processed for overseas movement to fill the 10 seventeen day rotational cycles set up to support the exercise.

Aircraft began deployment to the exercise area December 18, 1986. UH-1 aircraft were self-deployed to Mobile, AL where they were loaded onto vessels and shipped to Honduras. While in that country, the aviation detachment conducted seven day a week operations using

MAJ Jones is an Aviation Staff Officer at Fourth US Army.

nine UH-1 aircraft. A core element of ten durational personnel, augmented with 29 reservists who rotated-through every seven-teen days manned the aviation element throughout the exercise.

“The exercise provided an excellent opportunity for Fourth U.S. Army’s aviation units to deploy troops to an overseas location, train, provide aviation support in a non-combat environment, and redeploy back to home station.”

Flight Operations

Flight operations were based out of Camp Big Bear while AVIM operations were conducted at Palmerola Air Force Base. Aviation maintenance and logistical support was provided by the 185th Transportation Company of the 302d Transportation Battalion stationed at Glenview Naval Air Station, IL

The 185th Transportation Company provided twelve contact teams for Aviation Unit Maintenance backup and AVIM support. The 316th Medical Detachment (Air Amb) from Elyria, OH and the 354th Medical Detachment (Air Amb) from

Detroit, MI split the duty in providing aeromedical evacuation.

Redeployment

The aviation section flew 2,129 accident free hours in support of the exercise. At exercise end, all aircraft were shipped back to Mobile where they were unloaded, prepared for flight, and flown to their home stations. All aircraft and personnel had completed their redeployment by June 5, 1987.

Participation in Blazing Trails

'87 proved very beneficial. Units interfaced with active component, National Guard, and the Honduran Armed Forces during their tour of duty.

The exercise provided an excellent opportunity for Fourth U.S. Army's aviation units to deploy troops to an overseas location, train, provide aviation support in a non-combat environment, and redeploy back to home station.

In closing, Exercise Blazing Trails '87 provided our reserve component aviation assets with a unique and valuable training experience in deployment techniques and aviation skills. ■■■■

Air Traffic Control:

ATC Update: 1/58 Aviation Regiment

by Lt. Colonel Michael S. Geoghagan

FT. BRAGG, NC — The 58th Air Traffic Control Battalion was formally redesignated the 1st Battalion, 58th Aviation Regiment in ceremonies at Ft. Bragg, NC, on July 16, 1987.

Although we changed our name, our mission — world wide air traffic control in support of the XVIII Airborne Corps — continues unabated. The XVIII Airborne Corps has contingency missions covering over three-quarters of the earth's land area.

A Travelogue

The battalion's deployments in support of these missions read like a travelogue for a world cruise. In the past year we have deployed personnel to Germany, Ecuador, Honduras, Panama and Egypt. Within the United States, we have deployed to 16 states ranging from California, where for six months we sup-

LTC Geoghagan is Commander, 1st Battalion, 58th Aviation Regiment.

ported the Army test board, to Vermont where we trained with our National Guard sister battalion, the 86th Air Traffic Control Battalion.

Airborne Platoon

The 1/58th Aviation Regiment is unique among the four Army ATC Battalions in that we have the only assigned Airborne platoon. During the past year we have re-defined their mission to better support the specialized missions planned by the 82d Airborne Division. Our specially trained airborne teams are now lighter and an integral part of all airborne airfield take-down missions. These intrepid tactical teams have jumped on training teams with the 82d 10 times in the past six months. Our Airborne platoon truly provides us with a global mission, ready at a moment's notice to activate a hostile airfield and provide ATC services to all follow-on support.

In July, Task Force 58 was created to provide a fully instrumented airfield and a flight-facility deep in the Amazon jungles and Andes mountains of Ecuador. The mission, in support of operation "Open Roads," will last for nearly a year, thus providing us an excellent opportunity to test our ability to provide sustained airfield services.

55 Percent Giving 110 Percent

The 1/58th has operated the past year at 55 percent strength of controllers while serving two Major Army Commands, three brigades and supporting three divisions, a corps and 11 National Guard units. Our plate is full but the gallant men and women of the 1/58th consistently accomplish their missions.

The soldiers of Company A, 1/58th have even undertaken the task of assuming responsibility of fixed base ATC at Hunter Army Airfield and Ft. Stewart. A similar effort is being made at Ft. Campbell where our teams operate the Sabre Army Heliport alongside our fixed base counterparts.

A Synergistic Relationship

Army Aviation and Air Traffic Control have grown tremendously during the past year. We recognize that we have a synergistic relationship and both organizations clearly are better served when we work together.

As we close this year out, the 1st Battalion, 58th Aviation Regiment will serve under the Army's 1st Corps Aviation Brigade. The 18th Aviation Brigade has welcomed us with open arms as we welcome the opportunity to serve the largest aviation organization in the Army today.

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AWARDS and HONORS

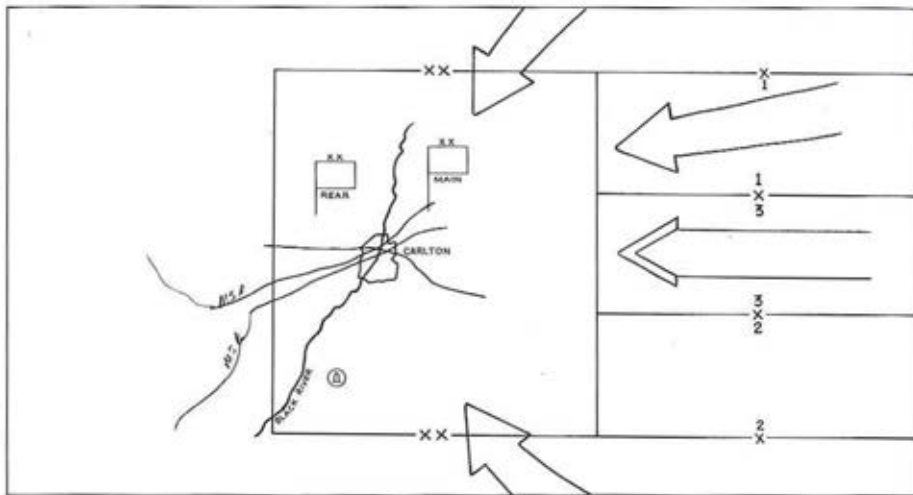
The following information on graduations is provided by the U.S. Army Aviation Center at Ft. Rucker, AL:

Officer Rotary Wing Aviator Course Class 87-8 (8/26/87): 2LT Harold T. Brandenburg, Jr., Distinguished Grad; 2LT Mark P. Connor, 2LT Michael J. Barbee, 2LT Anthony P. Digiacomo, II, 2LT Ronald F. Anglin, Honor Grads.

Warrant Officer Rotary Wing Aviator Course Class 87-7 (8/26/87): WO Patrick F. McAvinue, Distinguished Grad; WO Steven Shore, Honor Grad.

Officer Rotary Wing Aviator Course Class 87-10 (9/10/87): 2LT Vito S. Salvato, Distinguished Grad; 2LT Joseph A. Mess, 2LT Bryan S. Parlier, 2LT Eric A. Gaines, 2LT Jeffrey E. Long, Honor Grads.

Warrant Officer Rotary Wing Aviator Course Class 87-9 (9/10/87): WO Mark D. Braswell, Distinguished Grad; WO Robert J. Martin, WO Christopher H. Kruse, WO Kevin M. Purtee, Honor Grads.



Close Ops (continued from page 14)

is required to schedule and coordinate Air Force combat (Close Air Support and Battlefield Air Interdiction) and combat support (jamming and suppression) assets.

Using the schematic above, we can discuss the concepts with more clarity and detail. If we look at the divisional area first, we see that the IPB has identified four avenues of concern to the divisional commander. In addition, the sequencing of enemy forces along those avenues and the security of some sensitive areas in his rear also are of significant concern to the commander and will be addressed in follow-on articles.

Analysis

An analysis indicates that the division is presented with two avenues into its defensive sector with the primary avenue in the south, a threat on each flank and serious concerns with the security of its main CP and support area. It is important that the aviation brigade commander be involved in the mission development and planning at this point and that his missions be clearly articulated in the division order. If the aviation brigade commander is not involved at this point, he will, at best, be behind the power curve for most of the mission. At worst, he will be

designated a reserve with no further instructions and be piecemealed into the battle with little or no preparation or coordination.

Although the aviation brigade can provide great depth, initiative, and agility, these capabilities must be balanced with the requirement for detailed synchronization. As such, the aviation brigade must develop its operational order concurrently with the division order based on clearly articulated missions and with a clear understanding of the commander's intent. For the purposes of this discussion, let us assume that we are dealing with a heavy forward deployed division with two attack helicopter battalions. Let's listen in as the divisional commander provides his concept for the aviation brigade to his G-3 and aviation brigade commander.

One Scenario

"Gentlemen, you are familiar with the G-2's estimate and our intelligence preparation of the battlefield. I want the aviation brigade in reserve and to plan for the following missions.

- *Be prepared to counterattack with the 1st Brigade in the north to destroy enemy penetrations into the main battle area.*
- *Be prepared to counterattack with the 3d Brigade in the south to destroy enemy penetration into the main battle area.*
- *Be prepared to conduct independent operations, against the threats to both flanks.*

- *Be prepared to attack to destroy or isolate enemy airlifted or ground maneuver attacks on the division main and rear CP's, the Main Supply Route crossings of the Black River at Carlton and the division main support area.*

- *Be prepared to receive corps attack helicopter assets and integrate them into the division's combat operations should the battle require more than our assets.*

I will personally approve the release of attack helicopter assets to execute the missions with the 1st and 3d Brigades. Attack units will automatically revert back to division control at the completion of the planned mission. If more than one attack battalion is committed to either the 1st or 3d Brigade the aviation brigade will assume control of the attack helicopter operations. My intent is to move significant attack helicopter forces to the flanks of enemy forces that penetrate or are drawn into the main battle and to destroy them as rapidly as possible.

Any close air support aircraft available at the time of execution will be diverted to these actions and be controlled by the attack helicopter units. I will be particularly sensitive to committing the attack helicopter assets too early. I will wait until the situation has sufficiently developed to provide the target density, flank accessibility and decisive impact I desire on the attacking enemy force. I will not release those assets piecemeal to chase after every enemy sighting.

All of these missions require extensive planning, coordination and synchronization with other elements of the division. The aviation brigade must develop its plans and orders concurrent with us so that required coordination can be initiated as we publish the division order. As I see the battle developing, I will have you develop plans to take care of any contingencies that I can foresee.

I expect you to develop plans for any contingencies you see developing and to keep me informed. Do you have any questions?"

A Quick Review

As indicated by the division commander, all of the above missions require extensive planning, coordination, and synchronization with other elements of the division. It is obvious that he understands that he cannot commit his attack force without the planning and coordina-

tion at the colonel level required to effectively integrate it into the combined arms battle.

Let's listen to the aviation brigade commander as he discusses his concepts with his battalion commanders. For the purposes of this discussion, we will only address the attack helicopter battalions.

Briefing

"Gentlemen, based on the intelligence estimate, our intelligence preparation of the battlefield and the mission provided by the Divisional Commander you have the following missions.

1st Attack Battalion I want you to be prepared to:

- *Conduct a counterattack in the 1st Brigade sector to destroy an enemy attack/penetration into the division main area.*

- *Conduct a screen of any gaps which develop between the division and the unit on our northern flank.*

- *Attack to destroy an enemy threat or penetration of the division north flank.*

- *Attack to isolate/destroy enemy attacks on the division main or rear CP's.*

2nd Attack Battalion be prepared to:

- *Attack in the 3d Brigade sector to destroy an enemy attack/penetration of the division main battle area.*

- *Conduct a screen of any gaps which develop between the division and the unit on our southern flank.*

- *Attack to destroy an enemy threat or penetration of the division's southern flank.*

- *Attack to isolate/destroy enemy attacks on the division support area and the division MSR crossing at Carlton.*

Both attack squadrons be prepared to assume or assist in the other's mission. I expect both commanders to personally initiate coordination with the appropriate brigade commander as soon as possible. Develop sufficient alternate battle positions and routes so that I can integrate your sister unit into the battle. Provide all graphics and mission data to the brigade S-3 for deconfliction and integration. If we commit both battalions to the same fight, I will assume control and provide the required control measures and method of engagement. The divisional commander will make the decision to commit us, at which time, those assets

Close Ops (continued from page 59)

committed will go OPCON to the brigade on line for the duration of the mission. As the situation develops, however, I expect that you will move a scout team forward to gain contact and move your attack helicopters to a forward holding area so you can engage as soon as the divisional commander makes his decision. I know you have other missions to plan but you or your XO must spend as much time as possible with your respective brigades. Always have a decision maker in contact with him.

If either of you are required to implement the main battle and flank missions simultaneously, I will give one of your missions to your sister battalion or integrate corps attack assets into that mission if available.

“It is imperative that the attack battalion commander be involved in the planning and coordination from the start and that he understand the ground maneuver concept and the commander’s intent.”

Based on your plans, the brigade S-3 will develop the detailed plans for that integration and provide it to the corps attack battalion earmarked for the mission.

If we have to execute either of the attacks against a flank threat, it will be absolutely imperative that we have solid contact with the brigade commander on that flank in order to keep him abreast of the situation.”

The Next Step

As soon as the aviation commander receives his missions and understands the commanders intent, he should develop his own scheme of maneuver.

We now have an aviation brigade that has detailed missions in the division order and is completely integrated into the divisional scheme of maneuver. We have attack helicopter battalions with specific missions and time to plan, coordinate, and synchronize.

The next step is for the attack helicopter battalion commander to arrive at the Tactical Opera-

tions Center of the brigade in whose area he may be required to operate prior to or simultaneously with the division order. As at division level, it is imperative that the attack battalion commander be involved in the planning and coordination from the start and that he understand the ground maneuver concept and the commander’s intent. It is also important that the flank operations be coordinated at this time. During concept development and briefings, the aviation commander will have the opportunity for face-to-face coordination with the brigade commander, his staff, and his subordinate battalion commanders.

As a result, the attack helicopter battalion has accomplished the most important thing — he is now in the ground maneuver brigade’s order. Hence, everyone down through company level knows his routes into the area, his battle positions, his engagement areas, and his kill zones to include those for his sister attack battalion

should they both be committed to the same fight. Combat Electronics Operation Instructions and crypto variables have been exchanged, priorities of fire are set, fire distribution has been coordinated and JAATT operations have been planned as required. Any changes can be easily implemented from this common point of departure. At this point, there is still no command relationship between the attack battalion and the ground maneuver brigade.

An Accurate Picture

When the planning for all missions is complete and briefed to the attack helicopter troops, the attack helicopter battalion commander should initially position himself or his S3 with the ground maneuver brigade commander as the fight begins. Remember, however, he still has other missions that he must be prepared to execute immediately. By positioning himself initially with the ground maneuver brigade, the attack unit commander can maintain an accurate picture of the battlefield prior to the time he is placed



Recognition of a job well done.

For 350 years, the National Guard has come to our nation's aid in times of war and in times of natural disaster. But no amount of determination and valor can overcome the limits of their equipment.

Right now the Guard is flying helicopters rendered obsolete a decade ago—with the introduction of the U.S. Army BLACK HAWK to the active forces. Today the UH-60A BLACK HAWK is the most effective and mission flexible helicopter in the air, the standard for our nation's Army.

It's the vehicle of choice because it's nimble, flexible and powerful. Armed, it performs as an assault helicopter. But on the other hand, it has the muscle and flexibility for serious disaster-relief work. It'll fight fires; carry supplies; and save lives in search and rescue and medevac missions.

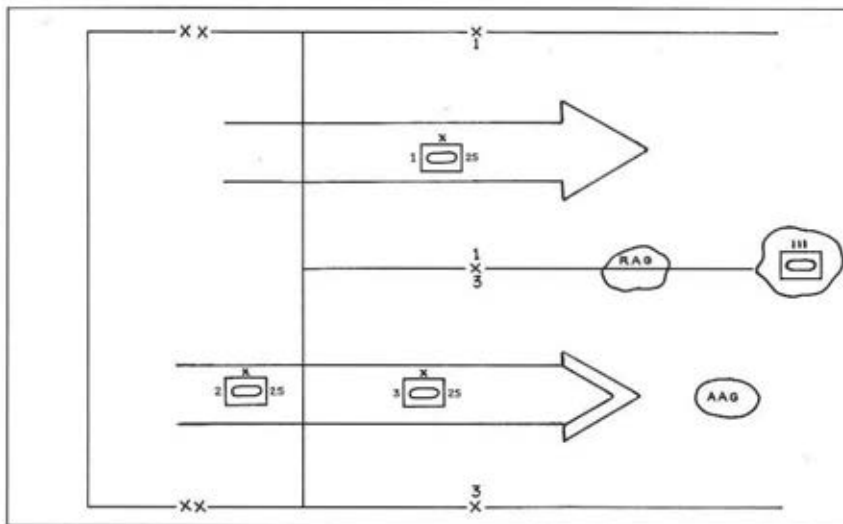
The Guard, as part of the total force structure, needs the same equipment used by the active Army.

Simply put, the BLACK HAWK is the best there is. And the National Guard doesn't just deserve the best.

They need it.



**UNITED
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OPCON to the ground maneuver brigade or required to execute an attack against the flank threat, or plug a gap that develops on the flank.

As the situation develops, he can have his scouts gain contact and move his attack teams into holding areas or battle positions so that when the divisional commander OPCONS the attack battalion to the ground maneuver brigade or the flank threat requires action or a screen is required, coordination can be finalized rapidly and they can effectively enter the battle immediately.

Now just think about the difference if the first time the attack unit was aware of the mission was after enemy contact when they were placed OPCON to or required for immediate operation on the flank or rear of the ground maneuver brigade.

OPCON to a Ground Maneuver

The attack helicopter unit planned this and other missions simultaneously while remaining under the control of the aviation brigade. If they were placed OPCON to the ground maneuver brigade, it would only be for the duration of the mission at which time they would automatically revert back to division control. The mission discussed here, OPCON to a ground maneuver brigade, might take anywhere from five to 50 minutes to execute.

As such, the attack unit is unavailable for its other planned missions for that period of time.

Plan Ahead

If the attack helicopter battalion is placed OPCON to the ground maneuver brigade and its sister battalion is also added to that fight, or any time multiple battalions are employed in the same fight, the aviation brigade should have the contingency already planned and assume control of the operation. This is especially critical where the corps commander OPCONS corps assets which, due to previous commitments, have had insufficient time to plan and coordinate.

In the above discussion, we looked at the divisional aviation brigade in a defensive scenario. For offensive operations, it is equally imperative that we integrate the aviation brigade and the attack helicopter battalions into the scheme of maneuver at its inception. The schematic above will assist in the discussion of offensive actions in close operations.

Let's listen once more as the division commander discusses his concept with his G-3 and the aviation brigade commander.

"Gentlemen, at first light the 3d Brigade will conduct the division's main effort in the south; the 1st Brigade will conduct a supporting attack in the north. The 2nd Brigade will follow

After the aviation brigade commander analyzes his mission he assigns missions and provides his concept to his subordinate commanders.

3d Brigade in the south and will be prepared to assist or assume the mission of either the 3d or the 1st Brigade. I plan to pass 2nd Brigade through 3d Brigade, as appropriate to sustain the momentum and success I expect to achieve. The aviation brigade will be my reserve and will help assure the success of the main effort by being prepared to:

- *Attack to destroy enemy divisional and army artillery groups supporting the divisions on line.*

- *Support by fire the attack of the 3d Brigade.*
- *Secure the right flank of the 3d Brigade penetration.*

- *Attack to destroy enemy forces counterattacking the 3d Brigade penetration.*

- *Attack to disrupt, destroy and maintain pressure on withdrawing enemy forces as the 2nd Brigade passes through the 3d Brigade.*

- *As the main effort achieves success, be prepared to conduct an exploitation and pursuit operation to destroy enemy forces withdrawing in front of the main attack.*

We should have the location of enemy divisional and army artillery groups supporting their committed divisions just after dark. I've asked the corps commander to engage these locations with corps attack helicopter assets. If this is not possible we will attack with our own assets. Plan the attack for 0300.

I know that the integrated, coordinated and massed fires of the enemy and the fact that they are dispersed, stationary, dug in and camouflaged makes this a very difficult mission for you.

In supporting by fire the 3d Brigade attack and penetration use maximum standoff range and, to the extent possible, remote engagements from masked positions. Due to limited standoff capability of the AH-1 COBRA, this would be a difficult mission. Use your own judgement on what you can do; however, I do not want to risk any significant losses of our attack assets during this phase of the operation.

As the 3d Brigade penetration achieves success, maintain contact with their trailing elements and secure their right flank. If any counterattacking forces develop, attack and destroy them.

I will pass the 2nd Brigade through the 3d Brigade to exploit our initial successes and to maintain the momentum of the attack.

I want you to find access to the enemy's flanks and rear and attack during the passage to destroy, disrupt and maintain pressure on the withdrawing enemy forces. Be prepared to continue pursuit operations to destroy enemy forces withdrawing in front of our main effort."

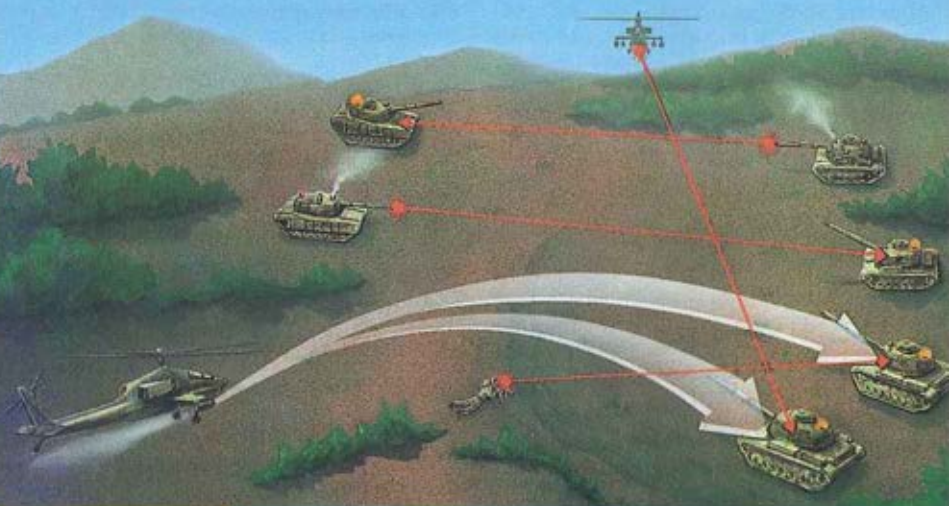
Assigning Missions

After the aviation brigade commander analyzes his mission he assigns missions and provides his concept to his subordinate commanders.

"Gentlemen, based on the brigade mission you just heard, I want the 1st Attack Battalion to be prepared to support by fire the initial attack of the 3d Brigade. As you know this will be a very difficult mission. Minimum exposure and maximum standoff is the rule of the day. The divisional commander does not want to risk any substantial losses on this mission. As the 3d Brigade attack achieves success, be prepared to secure his southern flank. As the 2nd Brigade passes through the 3d Brigade, I will assume control and we will conduct a multiple-battalion attack on the flanks and rear of the enemy forces withdrawing in front of the main effort. As the situation develops we will conduct pursuit operations.

2nd Attack battalion, in addition to the missions just discussed, you will be prepared to conduct an attack under cover of darkness to destroy enemy divisional and army artillery groups supporting enemy units in front of the division. Both corps and division assets are analyzing routes, crossing points, suppression
(Close Ops — continued on page 65)

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Close Ops (continued from page 63)

requirements, and other data required for the mission. It appears there may be a gap we can exploit 45 kilometers to the south. I also want you to be prepared to counterattack forces which threaten our main effort. The corps and division G-2 are pinpointing enemy mobile reserves."

Early Integration Important

As before, it is imperative that the commander of the attack helicopter battalion arrive at the respective ground maneuver brigade simultaneously with the division order so that the attack helicopter unit can be integrated into the brigade scheme of maneuver as early as possible. Additionally, the unit operating against the artillery groups and counterattacking force must have maximum time for gathering intelligence, planning, and coordinating their mission.

In both scenarios discussed here, the smallest attack helicopter unit addressed has been the attack helicopter battalion. This is the smallest attack helicopter unit that can conduct sustained and coordinated operations. In addition, in each case, the attack helicopter battalion was integrated into the scheme of maneuver at division or brigade level — aviation or ground maneuver. Ground maneuver battalions do not have the time, assets, or operational area to effectively employ the assets of an attack battalion. Not to say that the attack battalion might not attack an enemy penetration in a combined arms operation with an armored task force, but it might well do it from eight kilometers away across two other task forces. Tying an attack helicopter battalion

(or company) to the operational area of a battalion task force severely restricts its flexibility and its ability to avoid detection and deceive and degrade the threat.

As indicated earlier, if attack helicopter assets are provided by the corps commander for operations under divisional control during close operations, they should be assigned OPCON to the division aviation brigade for the specific mission. If at all possible, they should be provided in sufficient time to conduct detailed planning and coordination.

This will, however, probably be the exception rather than the rule. As such, the divisional aviation brigade must always be prepared for and have accomplished the contingency planning for the employment of corps attack helicopter assets that may be provided the division.

Alternative

An alternative available to the corps commander in lieu of providing attack assets to the division is to assume or relieve the division of certain missions/requirements — flank security, rear security, economy of force missions, deep operations, etc.

Close operations in the AirLand battle are generally a divisional commander's fight and are driven by the commander's (red or blue) scheme of maneuver. If completely integrated into the scheme of maneuver as discussed above, attack helicopters will be an awesome combat multiplier.

They will provide a means to shift combat power rapidly and with great flexibility. If they are allowed to sit around and wait until they are urgently required (Oh, my God!) before they are integrated, they will prove to be a very poor force multiplier. ■■■■

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BRIEFINGS

Gerald Crabtree (left) and COL E. Kirby Lawson III discuss Lawson's flight in a TH-55 OSAGE helicopter July 8 at Ft. Rucker, AL. The deputy assistant commandant of the Army Aviation Center and a 25-year Master Army Aviator, this was Lawson's first flight in the Army's primary flight training helicopter. Crabtree was Lawson's



instructor pilot in the L-19 Bird Dog in 1962, and his instructor for the OSAGE familiarization flight. Over his 36 years of teaching military students how to fly, Crabtree has logged more than 18,700 flight hours and has never had an accident.

Napco International announced the June 4, 1987 appointment of **Martin J. Leff** to the position of president, effective July 1, 1987. Leff was Vice President of Commercial Programs at Textron Lycoming. Leff, 55, began his career in 1956 with Textron-Lycoming, Stratford, CT. In addition to his most recent post, Leff served in a variety of positions including: Vice President Marketing and Product Support, Vice President Product Support, Assistant to the General Manager, Assistant to the Vice President Engineering, Manager Engineering Planning, Supervisor and Development Engineer. Leff, his wife, Judy, and their children will be relocating to the Minneapolis area.

Dr. Jon L. Boyes, VAdm., USN (Ret.) has announced his plans to retire as President of the Armed Forces Communications and Electronics Association (AFCEA) effective November 1, 1987. The AFCEA Board of Directors elected **General John A. Wickham, Jr.** USA (Ret.) to succeed Admiral Boyes. General Wickham recently retired his position as Chief of Staff, United States Army after 37 years of commissioned service.

AVIATION COMMAND CHANGES

The following changes were provided from MILPERCEN:

LTC(P) Thomas E. Bruns — Student, Industrial College of Armed Forces, Ft. McNair, DC. To become DCSLOG/G-4, IX Corps, Camp Zama, Japan. Effective September 1987.

LTC(P) James R. Holder — DEP PM LHX, AVSCOM, St. Louis, MO. To become Project Manager — ASE, AVSCOM, St. Louis, MO. Effective September 1987.

COL Robert D. Hurley — DOES, USA Armor School, Ft. Knox, KY. To become Commander, APACHE Training Brigade, Ft. Hood, TX. Effective August 1987.

COL Thomas J. Konitzer — Executive Officer, ODCSOPS, Washington, DC. To become Brigade Commander, 6th Cavalry Brigade, Ft. Hood, TX. Effective June 1988.

LTC(P) William D. Loftin — Special Assistant to CG, 101st Abn Division (AASLT), Ft. Campbell, KY. To become Commander, CBT Aviation Brigade, 101st Airborne Division (AASLT), Ft. Campbell, KY. Effective June 1988.

COL Dean M. Owen — Post Commander, Ft. Lewis, WA. To become Commander, Combat Aviation Brigade, 6th Infantry Division, AL. Effective July 1988.

COL Robert E. Terry — DCSLOG/G-4, IX Corps, Camp Zama, Japan. To become DOTD, Aviation Logistics School, Ft. Eustis, VA. Effective February 1988.

COL Donald R. Watson — Chief, Amarillo Division, Bell ARPRO, Amarillo, TX. To become Commander, USAPRO/Bell Helicopter, Ft. Worth, TX. Effective August 1987.

LTC(P) Charles H. Webb — Student, USAAVNC, Ft. Rucker, AL. To become Commander, 2d Aviation Brigade, 1st SOCOM, Hunter AAF, GA. Effective December 1987.

LTC(P) Ronald N. Williams — Dep. Director of Engineering, AVSCOM, St. Louis, MO. To become Project Manager, CH-47D/V-22, AVSCOM, St. Louis, MO. Effective August 1987.

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BRIEFINGS



MAJ Gary D. Jerauld, research and development project officer assigned to the Aviation Applied Technology Directorate (AATD), Ft. Eustis, VA, was promoted to that rank at a ceremony held there recently. In the photo above, MAJ Jerauld receives his new insignias from his wife, Marijane, and **COL John E. Kempster**, director/commander of AATD.

Bell Helicopter Textron engineers have successfully completed full scale cabin crashworthiness demonstration using a newly developed composite sine wave energy absorbing underfloor. The structure is designed in a corrugated shape to initiate crushing in a progressive folding-like manner much like an accordion. Under an Army sponsored FAA R&D program, drop tests of a repaired, previously-tested composite cabin simulated crash impact conditions specified in the Army's MIL-STD-1290 which requires occupants to survive a 42 ft/sec vertical crash impact. The excellent post-test condition of the cabin protective shell structure and the performance of the sine wave energy absorbing underfloor demonstrated that the Army's crashworthiness requirement could be met by a composite structure.

The second reunion of the **145th Combat Aviation Battalion Vietnam Association** was held in Ft. Wayne, IN August 7-9, 1987 and the next is planned for 1989 in Colorado. Attended by approximately 100 persons, an enjoyable reunion was had by all. Units represented included UTT, 25th, 68th, 71st, 117th, 118th, 120th, 135th, 147th, 184th, 197th, 213th, 242nd, 334th, 335th Aviation

Companies and Company A, 501st Aviation Battalion. The 145th CABVA is actively seeking all former members of these units. They are also seeking any historical information and memorabilia from the 145th and all detachments during the Vietnam Era. Contact CABVA National Headquarters, 3719 Forest Hill Ave., Ft. Wayne, IN 46805.

On July 16, 1987, the **59th Air Traffic Control Battalion**, headquartered in Schwaebisch Hall, FRG was redesignated the **3rd Air Traffic Control Battalion/58th Aviation Regiment**. The Battalion's subordinate companies, the 187th ATC Co. (FWD), headquartered in Wiesbaden, the 189th ATC Co (FWD), headquartered in Schwaebisch Hall and the 240th ATC Co (COMMZ), headquartered in Mannheim, were redesignated as "A", "B", and "E" companies, respectively. The Army Flight Operations Detachment (AFOD), headquartered in Heidelberg, will retain its name. All Air Traffic Control Battalions within the Army have been designated under the 58th Aviation Regiment. The regimental colors and lineage will be located at Ft. Bragg, NC. Subordinate battalions of the 58th Regiment include: (a) 1st ATC Battalion, 58th Avn Regt, Ft. Bragg, NC, (b) 2nd ATC Battalion, 58th Avn Regt, Ft. Hood, TX, (c) 3rd ATC Battalion, 58th Avn Regt, Schwaebisch Hall, FRG, (d) 4th ATC Battalion, 58th Avn Regt, Seoul, South Korea.

Blue Book Correction

In the August-September Blue Book Directory (page 55, last entry) LTC Eugene Mace was incorrectly listed as the **U.S. Army Aviation Development Test Activity's Deputy Commander for Test**.

That position is actually held by LTC **William C. Childree**, who can be called at (205) 255-8149 or AV 558-8149.

ARMY AVIATION MAGAZINE apologizes for any confusion this error may have caused. Please make a note of this correction in your Blue Book issue.

DYNALECTRON CORPORATION WINS AAAA INDUSTRY AWARD

Dynalectron Aerospace Operations has been presented the AAAA Lindbergh Chapter 1986 Team, Group or Special Unit Industry Award



The award was presented by Gen. Maxwell R. Thurman, Vice Chief of Staff, U.S. Army. Gen. Thurman said that through the AVSCOM program, Dynalectron provided "innovative" repair, maintenance, and reclamation, which resulted in a cost avoidance savings of \$6 million.



Dynalectron personnel earned the award for helicopter phase inspection and AVIM through Depot-level maintenance, and for auxiliary power unit reclamation.

The Dynalectron Contract Field Team personnel were cited for "outstanding professional performance" by the supported 70th Transportation Battalion, Germany, and were nominated by the AAAA Rhine Valley Chapter.

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HERHOLTZ, MATTHEW J.
105 KEISHA CIRCLE
OZARK, AL 36360
HO, AUGUSTUS K.
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BALTIMORE, MD 21236
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HHT 3/7 CAV
APO NY 09028
SMITH, GEORGE R.
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APO SF 96901
FORT POLK, LA 71459
SOLOMON, DEMPSEY D.
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2810 WASHINGTON RD, (J5)
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HSC 309TH ATK HEL BN
CAMP PAGE
APO SF 96208
WALKER, THOMAS S.
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WEAVER, MICHAEL
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APO SF 96208
WOLFSKILL, LAWRENCE A.
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13 LITTLE BIG HORN
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P5AIXO 409
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16 MONTIETH LANE
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Sept.-Dec., 1987 Calendar of AAAA Chapter Activities

OCTOBER

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September, 1987

■ ■ Sept. 15. Edwin A. Link Memorial Chapter. Professional dinner meeting. Mr. Charles C. Crawford, Technical Director, AVSCOM, guest speaker. Morey's Restaurant, Binghamton, N.Y.

■ ■ Sept. 16. Southern California Chapter. Professional dinner meeting. Jim Van Horn, McDonnell Douglas Helicopter Co, guest speaker. "NOTAR." Hacienda Hotel, El Segundo, Calif.

■ ■ Sept. 17. Corpus Christi Chapter. Late afternoon business-social meeting. Officers' Club.

■ ■ Sept. 22. Greater Atlanta Chapter. Professional dinner meeting. COL Robert Stewart, Dep Cdr, USA Strategic Defense Command, guest speaker. Ramada Inn Central, Atlanta, Ga.

■ ■ Sept. 22. Mainz Chapter. Late afternoon general membership meeting. Village Inn at Martin Luther King Village.

■ ■ Sept. 23. Monmouth Chapter. Professional luncheon meeting. William P. Brown, President, McDonnell Douglas Helicopter Co., guest speaker. Squires Pub, West Long Branch, N.J.

■ ■ Sept. 23. Stuttgart Chapter. Mid-afternoon business-social meeting. Chapter elections, aviation videos, raffle. Nellingen Senior NCO and Officers' Club.

■ ■ Sept. 24. Arizona Chapter. Professional dinner meeting. LTG Donald S. Pihl, MII Dep to ASA (RDA), guest speaker. "Force Modernization." Dobson Ranch Inn, Mesa, Ariz.

■ ■ Sept. 24. Air Assault Chapter. Mid-afternoon professional meeting. Jack Cronin, Marketing Manager, Raytheon Co., guest speaker. "Air-to-Air Missiles." Lee Recreation Center, Ft. Campbell, Ky.

■ ■ Sept. 24. Checkpoint Charlie Chapter. Late afternoon membership meeting. Avn Det Classroom, Avn Det Hangar 3, Tempelhof.

■ ■ Sept. 25. Old Tucson Chapter. Late afternoon professional-social meeting. Jim Brown, Dir of Mktg for Govt Progs & Tech, McDonnell Douglas, guest speaker. "LHX — The Superteam". DMAFB Officers' Club.

■ ■ Sept. 25. Lindbergh Chapter. Late afternoon "3rd Annual Mash Bash". DJ, hors d'oeuvres, dance contest, "Best Costume" awards. The Bunker.

■ ■ Sept. 28. Cedar Rapids Chapter. Professional dinner meeting. David Gaggin, Director, USA AVRADA, Ft. Monmouth, N.J., guest speaker. Stouffer's Five Seasons Hotel, Cedar Rapids, Iowa.

■ ■ Sept. 30. Ft. Bragg Chapter. Late afternoon professional meeting. "Task Force 160 Operations" - Secret Briefing requiring an appropriate security clearance. SOCUM Auditorium, Ft. Bragg, N.C.

■ ■ Sept. 30. Old Ironsides Chapter. Late afternoon general membership business meeting. Chapter planning for FY88, SKI Week planning. Hindenburg NCO Club.

October, 1987

■ ■ Oct. 1. Corpus Christi Chapter. Professional dinner meeting. Sergei I. Sikorsky, Vice

Each month, some eight to ten key military, industry, and gov't leaders address the AAAA's 52 worldwide Chapters professionally.


Mr. Crawford

COL Stewart

Mr. Gaggin

Mr. Brown

Mr. Sikorsky



AAAA Overview

Virtually tripling the number of its Governors, the AAAA Scholarship Foundation has embarked on a ten-year program that seeks \$1 million in invested capital and an annual return of \$80,000 to \$100,000 a year to underwrite scholarship grants.

Also Governors Thyra Bonds, COLS "Frank" Estes and Bill Golding, Jose Guzman, CW4 Dave Helton, Paul Hendrickson and Charles Marotta, and COLS John Marr and "Al" Marshall.

Also serving on the new Board are CW4 "Mike"

AAAA Scholarship Foundation Board Undergoes Major Personnel Revision

The Foundation is involved in a current CY88 award program that will return up to \$60,000 in Freshman year aid to the sons and daughters of AAAA members and deceased members. (See Page 77).

Unlike most aid programs, the AAAA National Scholarship Awards Program is not based on need, but is based primarily on academic merit, well-rounded secondary school activities, and solid career potential.

Widespread membership participation was obtained this past year when nine AAAA Chapters supported the "1987 Chapter Matching Fund Program" by contributing \$1,000 and receiving a matching sum from the AAAA.

Expanded from nine to 25 members this past April, the Foundation Board now has a broad organizational base to face the '90's. Its constituency covers all AAAA membership segments, commissioned, warrant, enlisted, DAC, Industry, retired, Active Army, Reserve Components, etc.

The Board of Governors now include Bryce Wilson (Hon Pres), MG John L. Klingenhagen (Pres), COL "Deac" Descoteau (VP), Dotty Kesten (Sec), and Don Luce (Trea).

Novosel, LTCs Bill Pearson and "Pete" Peduzzi, COL "Ace" Phillips, Frank Piasecki, CW4 Joe Pisano, MG George Putnam, LTC Frank Radsprinter, "Dick" Steele, CSM Hartwell Wilson, and LTC Jim Woodard.

Under review by the Governors are proposals on second, third, and fourth year scholarships; the award of scholarships to relatives of members, in addition to the sons and daughters of deceased members; the issue of scholarship awards to winners who elect to attend a service academy after their selection by the AAAA; and the conduct of a "Congressional Appreciation Luncheon" (or dinner) with the proceeds, after costs, accruing to the Scholarship Foundation.

GEN Vessey joins AAAA as a "Life Member"

One of the U.S. Army's most senior aviators, GEN John Vessey, Ret., recently donated \$300 to the "AAAA Scholarship Foundation" and became an AAAA "Life Member" in the process.

Full details of the "Life Member Program" may be obtained by writing to the AAAA National Office.

Who leads?

The AAAA Chapters showing total membership "gains" for CY87 in each of AAAA's three Chapter categories as at Sept. 30 include:

Master Chapters

North Texas.....	+ 30
Hanau Chapter.....	+ 27
Colonial Virginia.....	+ 11
Phantom Corps.....	+ 10
Edwin A. Link.....	+ 3

(All other Master Chapters show a "minus")

Senior Chapters

Arizona Chapter.....	+ 37
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(All other Senior Chapters show a "minus")

AAAA Chapters

Aloha Chapter.....	+ 78
Redcatcher Chapter.....	+ 75
Tucan Chapter.....	+ 10
Pikes Peak Chapter.....	+ 5
Dibrell (Alamo).....	+ 2

(All other AAAA Chapters show a "minus")

Top Guns

Individual Memberships

(\$650 First Prize to "Top Gun" as at Dec. 31, 1987)

CW2 D.E. Jungell, AL.....	97
CW4 R.S. Chipman, APO-NY71	
1SG F.O. Oxendine, APO-NYS2	
CPT H.E. Topete, APO-NY..51	
MAJ J.R. Lam, Jr., HI.....	37
SSG D.R. Phillips, APO-NY..32	
E7 J.H. Bae, APO-SF.....	26

Industry Memberships

\$300 and/or \$600 Category (\$650 First Prize to "Top Gun" as at Dec. 31, 1987)

Vicki Avenevoli, MO.....	1
(Dynamics Research Corp.)	
Charles D. Brown, MA.....	1
(Pacer Systems, Inc.)	
Harry W.O. Kinnard, VA.....	1
(Schweizer Aircraft Corp.)	

Sustaining Memberships

\$40 and/or \$75 Category

MAJ Frank Wilmoth, KY.....	2
(Houchen's Market #26)	
(Kar Country/Mlca's)	
CPT William Gillen, KY.....	1
(Beneficial Kentucky, Inc.)	

October, 1987

President, Special Projects, guest speaker. "Recollections of a Pioneer." Marriott Hotel, Corpus Christi, Tex.

■ ■ Oct. 1. Monmouth Chapter. Professional luncheon meeting. LTC Fred Zedeck, Sr Mill Advisor to the FAA, Office of Emergency Ops,

guest speaker. "Air Forces in the Middle East - Comparisons and Contrasts." Colts Neck Inn, Colts Neck, N.J.

■ ■ Oct. 3. Lindbergh Chapter. "Second Annual AAAA Road Rally." (Scavenger Hunt on Wheels - Not a speed trial). Starting point: West Alton, Mo.

■ ■ Oct. 9. Redcatcher Chapter. Late afternoon professional meeting (AAAA Videotape). Pastorious Community Club.

■ ■ Oct. 14. Washington, D.C. Chapter. First Annual Scholarship Benefit Golf Tournament. Limit: 48 players. Andrews AFB East Course.

■ ■ Oct. 16. Lindbergh Chapter. AAAA President's Dinner Dance (Informal). Breckenridge Frontenac Hotel, St. Louis, Mo.

■ ■ Oct. 16. Board of Governors, AAAA Scholarship Foundation, Inc. Semi-annual business meeting (Pay-as-you-go). Hilton Head Holiday Inn. Hilton Head, S.C.

■ ■ Oct. 17. AAAA National Board. Quarterly business meeting (Pay-as-you-go). Hilton Head Holiday Inn. Hilton Head, S.C.

■ ■ Oct. 20. Delaware Valley Chapter. Late afternoon "Beef N' Beer Social." Knights of Columbus Hall, Crum Lynn, Pa.

■ ■ Oct. 21. Southern California Chapter. Professional dinner meeting. Norm Nelson, Lockheed Skunk Works (Retired). "History of the Skunk Works." Hacienda Hotel, El Segundo, Calif.

■ ■ Oct. 24. Tucan Chapter. Canoe Trip down

the Rio Chagres followed by a "Bring your own Picnic". Wear river attire/Sun Screen 15.

November, 1987

■ ■ Nov. 3-4. Fifth Aircraft Survivability Equipment (ASE) Symposium sponsored by the Army Aviation Association. Classified sessions and Award Dinner. Presentation of the "1987 ASE Award". MG Story C. Stevens, President-AAAA, MC; BG Rodney D. Wolfe, Asst Comdt, USAAVNC, keynote; MG Richard E. Stephenson, CG, AVSCOM, '87 Award Dinner Speaker. Host: Daimo Victor Division of the Singer Company. Presidio of San Francisco, Calif.

December, 1987

■ ■ Dec. 3. Aviation Center Chapter. Professional dinner meeting. Presentation of the "1987 Aviation Trainer of the Year Award." Guest speaker to be announced. Formal. Ft. Rucker Officers' Open Mess.

February, 1988

■ ■ Feb. 5-6. AAAA National Awards Committee Selection Meetings. CY88 AAAA National Scholarship Award Winners (Feb. 5); CY87 AAAA National Award Winners (Feb. 6). Imperial "400" Motel, Arlington, Va.

■ ■ Feb. 17-18. 14th Annual Joseph P. Cribbins Product Support Symposium sponsored by the Lindbergh Chapter-AAAA. Presentation of four "1987 AAAA Industry Awards" and the Initial "Outstanding Aviation Logistics Support Unit of the Year Award".

April, 1988

■ ■ April 13-17. 30th AAAA National Convention. Cervantes Convention Center and four St. Louis area hotels.

Col. Richard L. Long, AAAA Past President and WWII veteran, dies

A former director at NASA Langley Research Center and senior project engineer for advanced projects at Sikorsky Aircraft, Col. Richard L. Long died August 31 at St. Mary's Hospital in Richmond, Va.

A Master Army Aviator, Long received an ME at Purdue University and a master's degree in aeronautical engineering from Princeton University. He entered the Army as a 2LT in 1942 and was at one time chosen by GEN George S. Patton, Jr. as his pilot. He joined Sikorsky Aircraft in 1965, and returned to the Army as a civilian in 1972 as the

deputy director of research, development, and engineering at AVSCOM.

Survivors are his wife, Mrs. Jane Long of Williamsburg, Va.; a daughter, Leone Shewmaker of St. Louis; and three sons, Richard Long of Dallas and John and Scott Long, both of St. Louis.

Col. Long was buried with full military honors at Cedar Grove Cemetery. Remembrances may be sent in his care of the AAAA Scholarship in his name at the AAAA Scholarship Foundation, Inc., 49 Richmondville Ave., Westport, CT 06880-2000.

AAAA offers up to \$60,000.00 in 1988 aid for college-entry Freshmen

BACKGROUND — The AAAA Scholarship Foundation, a separate non-profit educational activity created to provide scholarship aid to the sons and daughters of AAAA members and deceased members, announces the availability of up to \$60,000 in assistance funds for the 1988 college-entry year.

1987 AWARDS — Twenty or more scholarships will be presented — One \$8,000 four-year scholarship (\$2,000 a year); and several \$4,000 four-year scholarships (\$1,000 a year), to include the William B. Bunker Memorial Scholarship limited to Engineering School applicants; and several \$2,000 two-year scholarships (\$1,000 a year).

AWARD PHILOSOPHY — Operating on the premise that ample scholarship assistance is available to those in need, the AAAA National Scholarships are awarded primarily on the basis of academic merit and personal achievement. The AAAA seeks to honor those outstanding students whose well-rounded secondary school activities indicate solid career potential.

APPLICATION PROCEDURE — Student

applicants are asked to request the appropriate application forms by writing to the AAAA Scholarship Foundation at 49 Richmondville Avenue, Westport, CT 06880-2000. Requests for applications must be received on or before December 15. All forms, together with other supporting data, must be returned to the Foundation on or before January 20 to receive Awards Committee consideration. The student-prepared application should state the full name of the applicant's parent-member and address of student if different.

ELIGIBILITY CRITERIA — An AAAA applicant must be unmarried, a citizen of the United States, and a high school senior who has applied to an accredited college or university for Fall 1987 entry as a freshman. Program participation is limited to the children of members with an effective date of membership on or before March 31, 1987.

SELECTION AND NOTIFICATION — Selection of winners will be made by the 22-member AAAA National Awards Committee during the February 15-28 period with each applicant to receive a list of the winners not later than April 1.

Application Form for AAAA National Scholarships

APPLICANT'S NAME (PLEASE PRINT)

STREET

CITY

STATE

ZIP

PARENT'S NAME

RANK/GRADE, IF APPLICABLE

PARENT'S ADDRESS

CITY

STATE

ZIP



Solicitation now underway for CY87 AAAA National Awards: Jan. 15, 1988 suspense date set

"Award Presentations"

Up to eight AAAA National Awards for accomplishments made during Calendar Year 1987 will be presented at an Annual Awards Luncheon on April 15 and an Awards Banquet to be held on April 16 at the 1988 AAAA National Convention in St. Louis, Mo. The individual AAAA National Awards will be made on Friday; the unit AAAA National Awards will be made on Saturday. Senior members of the U.S. Army and U.S. Army Aviation will be invited to present the AAAA's top awards on both occasions.

"Outstanding Aviation Unit of the Year Award"

Sponsored by the McDonnell Douglas Helicopter Company, this award is presented annually by AAAA "to the Active Army aviation unit that has made an outstanding contribution to or innovation in the employment of Army Aviation over and above the normal mission assigned to the unit during the awards period encompassing the previous calendar year." Any Active Army Aviation unit that has met the foregoing criteria is eligible for consideration.

"Outstanding ARNG Aviation Unit of the Year Award"

Sponsored by Textron Lycoming, this award is presented annually by the AAAA "to the Army National Guard aviation unit that has made an outstanding contribution to or innovation in the employment of Army Aviation over and above the normal mission assigned to the unit during the awards period encompassing the previous calendar year." Any Army National Guard aviation unit or organization that has met the foregoing criteria is eligible for consideration.

"Outstanding USAR Aviation Unit of the Year Award"

Sponsored by Textron Lycoming, this award is presented annually by the AAAA "to the U.S. Army Reserve aviation unit that has made an outstanding contribution to or innovation in the employment of Army Aviation over and above the normal mission assigned to the unit during the awards period encompassing the previous calendar year." Any U.S. Army Reserve aviation unit or organization that has met the foregoing criteria is eligible for this award.

"The Robert M. Leich Award"

Sponsored by the Army Aviation Association, this award is named in memory of Brigadier General Robert M. Leich, USAR, the AAAA's first president (1957-1959) and its Awards Committee Chairman for 23 years. It is presented periodically to a unit or an individual for Army Aviation service over an extended period.

"Army Aviator of the Year Award"

Sponsored by the Sikorsky Aircraft Division of United Technologies Corpora-

tion, this award is presented annually through the AAAA "to the Army Aviator who has made an outstanding individual contribution to Army Aviation during the Awards period encompassing the previous calendar year." Membership in AAAA is not a requirement for consideration. A candidate for this award must be a rated Army Aviator in the Active U.S. Army or Reserve Components, and must have made an outstanding individual achievement.

"Aviation Soldier of the Year Award"

Sponsored by Bell Helicopter Textron, this award is presented annually by AAAA "to the enlisted man serving in an Army Aviation assignment who has made an outstanding individual contribution to Army Aviation during the awards period encompassing the previous calendar year." Membership in AAAA is not a requirement. A candidate for this award must be serving in an Army Aviation assignment in the Active U.S. Army or the Reserve Components, and must have made an outstanding individual achievement.

"James H. McClellan Aviation Safety Award"

Sponsored initially by Senator John L. McClellan in memory of his son, James H. McClellan, a former Army Aviator who was killed in a civil aviation accident in 1958, this award is now presented by the AAAA to an individual who has made an outstanding individual contribution to Army Aviation safety in the previous CY. The award is NOT intended to be given for the accumulation of operational hours without accidents by any aviation unit.

"Outstanding DAC of the Year Award"

Sponsored by the Boeing Helicopter Company, this award is presented annually by AAAA "to the DAC who has made an outstanding individual contribution to Army Aviation in the awards period encompassing the previous calendar year." Membership in AAAA is not a requirement. A candidate for this award must be a current Department of the Army Civilian.

Administrative Details

ACCOMPANYING DATA FOR INDIVIDUAL AWARDS: A standardized "Nomination Form for Submission of All AAAA National Awards" is the sole form utilized by the Awards Committee in its selection of annual AAAA National Awards Winners. Copies may be obtained directly from any Chapter Secretary or by writing to AAAA, Attn: Awards Committee Chairman, 49 Richmondville Avenue, Westport, CT 06880-2000. The foregoing form should be accompanied by a recent photo of the nominee and the nominee's biographical sketch. Photos of both the commander and the senior NCO must accompany each unit nomination.

Suspense Date and Acknowledgment

The "Nomination Form for Submission of All AAAA National Awards" and the accompanying photo(s) should be mailed ON OR BEFORE the January 15 suspense date to: National Awards Committee Chairman, AAAA, 49 Richmondville Avenue, Westport, CT 06880-2000. Please use stiffeners to protect the photo(s) being submitted. While "nomination" material cannot be returned, photos may be returned on request. The receipt of each nomination will be acknowledged by the Awards Committee Chairman.

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