

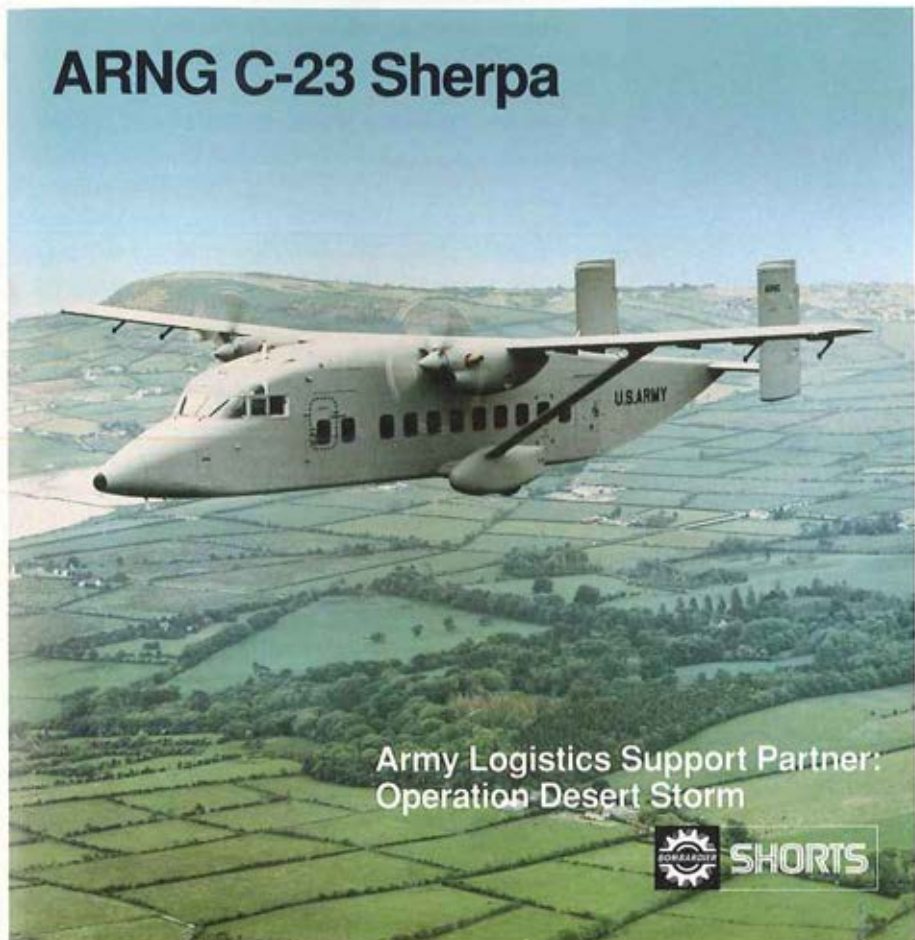
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SPECIAL FOCUS:
AIRCRAFT SURVIVABILITY EQUIPMENT

ARMY AVIATION

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Special Operations Aviation

By General Carl W. Stiner

When America's armed forces liberated Panama in December, 1989 and gave the Panamanian people back their freedom and democracy—Army and Air Force aviation played critical roles in that success. When America's armed forces, together with our coalition

partners stopped Saddam Hussein and liberated Kuwait from his ruthless aggression and domination during Operation DESERT SHIELD/DESERT STORM, Army and Air Force aviation once again played a vital role. The important contributions that our nation's aviation assets made in both of these operations are not surprising to those of us who work with the aviation community on a daily basis.

The aviation community, to include pilots, crews, maintainers, and research and development experts, are dedicated to mission accomplishment and are the best I

have seen in over 33 years in the Army. When the interests of our nation have been threatened, the Army and Air Force

aviation communities answered the call and stood strong against all enemies. At the same time, when countries have looked to America for humanitarian assistance, most recently in northern Iraq and Bangladesh for example, it has been Army and Air Force aviation carrying food, clothing, water, and support teams into troubled areas that transformed hopes and international promises of assistance into reality.

Aviation, both Army and Air Force, is a critical component of our nation's Special Operations Forces (SOF). Their activities are carried out across the operational continuum, including pre-crisis intervention, at strategic, operational, and tactical levels. SOF Aviation Operations routinely support the military, political, economic, and psychological components of our nation's military strategy. However, what I am finding as I speak to our service's mid-career and senior service schools is that the roles,



GEN Stiner is Commander-in-Chief, U.S. Special Operations Command, MacDill AFB, FL.



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missions and capabilities of our nation's Special Operations Forces, as a member of the combined arms team are often not understood. It is imperative that we, as military professionals, understand what SOF provides the operational commander when they are integrated into the campaign plan at every stage of planning and execution. SOF should no longer be placed in its own box or operational area on the battlefield, separate and distinct from other forces. SOF is a vital combat multiplier that, when integrated with conventional forces, maximizes force potential and capability.

Orientation and Modernization

As a result of the Cohen-Nunn Amendment to the 1986 Defense Authorization Act, the United States Special Operations Command (USSOCOM) was established to unify all of our nation's Special Operations Forces under one command. USSOCOM comprises a small headquarters staff and four component commands consisting of Active, Reserve, and National Guard Forces numbering 42,600 men and women. The component commands include the Joint Special Operations Command (JSOC) located at Pope AFB, NC, the United States Army Special Operations Command (USASOC) headquartered at Fort Bragg, NC (the parent headquarters for the 160th Special Operations Aviation Regiment), the Naval Special Warfare Command (NAVSPECWARCOM) based at Coronado, CA and the Air Force Special Operations Command (AFSOC), at Hurlburt Field, FL.

As a unified command, USSOCOM is charged with organizing, training and equipping special operations forces—which includes Psychological Operations (PSYOPS) and Civil Affairs (CA) forces, and providing combat-ready special operations forces to the regional Commanders-in-Chief (CinCs) who employ them throughout the world in pursuit of national objectives. Each component—Army, Navy, and Air Force—continually trains in its respective area of expertise and routinely participates in service and joint training exercises to hone fighting skills and promote interoperability among forces.

The identification and exploitation of emerging technology is vital to SOF. Technological superiority is a critical special operations force multiplier, and has often been decisive in offsetting enemy superiority in numbers, firepower, and mobility. The Cohen-Nunn Amendment recognizes this requirement and, as such, charges USSOCOM with developing and acquiring SOF-peculiar equipment, materiel, supplies, and services. This, together with the authority to develop the special operations program and budget, provides USSOCOM the flexibility to procure small numbers of Mission Essential Equipment with minimal lead time. We were able to do this for the Army, Navy, and Air Force SOF units employed on DESERT SHIELD.

However, SOF Research, Development and Acquisition is not done in a vacuum. Special Operations and the Services' Research and Development Programs must be closely coordinated to preclude wasteful duplications and take advantage of shared capabilities.

We work closely with the Army and Air Force on the modernization of our Special Operations Aviation fleet to ensure that they are managed properly and that they are developed with the operator in mind. Specifically, the Army MH-47E and the MH-60K helicopters, and the Air Force enhanced MH-53J Pave Low helicopter, AC-130U Spectre gunships, and MC-130 Combat Talon II continue to be my highest priorities. To develop and field these systems on time, as with other SOF modernization programs, special operations-unique research and development programs must be carefully tailored, closely managed, and aggressively pursued.

The role that the MH-53J Pave Low played during Operations DESERT SHIELD/DESERT STORM is a testament to the importance of technology to SOF in its support of the operational commander. For example, on the evening of 16 January 1991, MH-53J helicopters crossed into Iraqi airspace leading a flight of Army AH-64A Apache helicopters. The Pave Low was selected for this mission because of its electronic countermeasures, enhanced

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navigation, and Terrain Avoidance/Terrain Following (TA/TF) radar capabilities. This coordinated strike against key Iraqi radars successfully created a corridor through which allied air forces passed enroute to key targets throughout Iraq. When these aircraft crossed the Iraqi border, Operation DESERT SHIELD ended and Operation DESERT STORM began. When the MH-47E is operational in 1993, it will have many of the same capabilities that the MH-53J currently has.

The Versatility of SOF

A valuable attribute of SOF is its ability to conduct missions in three political/military settings: peacetime engagement, crisis response and regional conflict.

● **Peacetime Engagement**—during the period of peacetime engagement, SOF is ideally suited to counteract violence and promote Nation Assistance. SOF can be employed directly or indirectly to counter terrorism, narcotics trafficking, subversion, or insurgencies.

In addition, SOF is particularly adept at Nation Assistance tasks that require cultural familiarity, linguistic skills, and a longterm commitment. Characterized by small, flexible organizations with a wide range of specialized skills and area expertise, SOF provides numerous forms of training and assistance to emerging democracies. Today, USSOCOM has forces employed in 27 different countries in every region of the world. These soldiers, sailors, and airmen are quiet, professional instruments of U.S. Policy. They are employed, performing their respective missions every day of the year, from the grass-roots level—where the problems are—to the Ambassadorial level, giving advice, providing assistance and coordinating requirements, all in support of U.S. interests. With tumultuous events presaging change in much of the world, coordinated Nation Assistance programs advance the interests of the United States while assisting developing countries. U.S. participation in assisting nations often works best when it remains inconspicuous—a role for which SOF are particularly well-suited.

SOF aviation continues to be an integral

part of our nation's peacetime engagement programs. In this vein, however, we have discovered that our ability to advise or train friendly foreign governments to effectively employ fixed or rotary wing aviation assets in Foreign Internal Defense (FID)/Counterinsurgency/Counterdrug situations is a capability that is lacking. USSOCOM, in coordination with the Army's Training and Doctrine Command (TRADOC), the U.S. Army Aviation Center (USAAVNC), and the Air Force Special Operations Command (AFSOC) is organizing a joint FID aviation organization to assist developing countries to efficiently employ their air assets in efforts to protect their citizens from subversion, lawlessness, and insurgency.

To meet the requirements of the host governments and to support each theater CINC's Regional FID Plan, the Joint FID Aviation Organization will teach advanced flying skills to host nation aircrews, advise them on the proper employment of aviation assets in a counterinsurgency environment, and teach operational planning, integration of combat assets, and counterinsurgency tactics. In addition, training in logistics operations, aviation combat service support, and aviation supply management will be provided. Initial coordination has been made with the United States Southern Command (SOUTHCOM) for future employment of culturally attuned teams, proficient in the language of the Central and South American region. In the future, the Joint FID Aviation Organization will be capable of supporting Nation Assistance programs in all regions of the world. The priority of the organization's efforts is directed toward building an effective, responsive aviation capability.

Crisis Response

SOF is also capable of conducting complex Crisis Response Contingency Operations with great precision. SOF can be quickly task-organized and rapidly deployed to provide the National Command Authority (NCA) a selective, flexible crisis response capability. Army and Air Force SOF aviation are critical components to this crisis response capability.

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"An imprecise understanding of SOF capabilities ... can result in mission failure, attendant political costs, and possible loss of the entire force."

Often, SOF may be the force of choice for the NCA to provide a capability that falls between diplomatic initiative and the commitment of conventional forces. Properly employed, SOF provide an added dimension for the combat commander. An imprecise understanding of SOF capabilities or the improper employment or support of SOF at any level of command, can result in mission failure, attendant political costs, and possible loss of the entire force. The high state of readiness of our forces permits them to respond to a variety of crises, ranging from personnel recovery missions to supporting larger operations.

Conflict

At the middle and high end of the conflict continuum, SOF supports conventional forces by providing battlefield intelligence and economy of force capabilities to delay, disrupt, or divert enemy forces through direct action, special reconnaissance, or unconventional warfare. Thus, closely integrating SOF and conventional forces in peacetime training and during conflict situations must remain an essential element of national military strategy.

For example, during Operation JUST CAUSE, Army and Air Force SOF worked together to secure critical bridges, communication sites, and terrain to deny the Panamanian Defense Forces (PDF) access to them. By securing these objectives, enemy resistance was eliminated, initial "on-the-ground" intelligence was made available to tactical commanders, and the PDF was prevented from interfering with future operations. Fire support for these initial missions consisted of Air Force AC-130 Spectre Gunships, Army AH-64 Apaches, and SOF AH-6 attack helicopters.

The Future of SOF—People

The success of Special Operations Forces depends on two things: technological superiority, as I have discussed

previously, and high quality soldiers, sailors, and airmen—the cornerstone of the force.

High quality people enable special operations forces to meet challenges across a broad spectrum of mission requirements with the skill and initiative characteristics of American Armed Forces. Special Operations units select high quality service people, already tested by their parent services, for the demanding life of special operations. Those considering volunteering for SOF units undergo a rigorous selection process and/or extensive mission specific training programs to achieve entry level SOF skills.

If history is an example, the very finest volunteers are attracted to forces with demanding, uncompromising standards, and challenging missions like those performed by the "Night Stalkers" of the 160th Special Operations Aviation Regiment (Airborne). Ensuring that this tradition continues is vital to the future success of Special Operations Forces.

Final Note

The worldwide interests of the United States, combined with the growing complexity of the international environment, demands that our nation's aviation forces be versatile and ready for unprecedented challenges in the years ahead.

Special Operations Forces, as typified by the aviation assets of the Air Force Special Operations Command and the 160th Special Operations Aviation Regiment (Airborne), provide the National Command Authority and the theater CinCs with the flexibility required to execute policies ranging from specialized peacetime capabilities to equally specialized wartime support.

Special Operations Forces, as integral members of the Combined Arms Team, will remain prepared to meet any contingency in the complex international environment that lies ahead.

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DEFENSE



The Changing Strategic Environment

By Major General John D. Robinson

As the DESERT STORM victory celebrations become memory, a new strategic environment is emerging, concurrent with domestic pressure for reduced Federal spending. Each evening's newscast brings new challenges to recent decades of planning, programming, and preparation for national security. The prospect of contingency operations anywhere in the world and advances in technology have altered our warfighting concepts. As Yogi Berra once said—"The future ain't what it used to be."

Strategic Picture

We cannot escape being startled by current world events. We watch these events unfold, yet they contain implications which remain obscure even to the most prudent strategic planner. The past monolithic threat, so easy to identify and focus upon, appears shattered. In its place, a destabilizing vacuum promotes regional unrest, and potentially threatens our national security interests around the world.

It is impossible to predict the location and scope of future battles, yet we feel certain that such conflicts will occur. When they do, the proliferation of modern weaponry throughout the Third World will guarantee that many of these future conflicts will be mid-

intensity wars. Amid this turmoil and uncertainty, economic considerations are certain to force larger nations to opt for smaller militaries.

Technology in Flux

Much will be demanded of the Army. There will be great uncertainty on future battlefields. Point targets must be acquired and destroyed at extreme ranges. Advances in computer technology and artificial intelligence are producing "smart weapons", "network battlefields", and satellite navigation. More than ever before, the Army needs lethal forces capable of breaking friction with the ground. The third dimension of the battlefield has taken on greater significance.

The Challenge

Can the rational man hope to make sound force design and investment decisions in this kaleidoscope environment of political turmoil, regional instability, shrinking armies, shifting technologies and changed operational concepts? The challenge is clear—it must be done, and done right.

We must wisely downsize the force adhering to the following essentials:

- Maintain the quality edge achieved in our current forces. The Army must be smaller yet it must be utterly decisive wherever it is committed.
- To do this, we must effectively leverage high technology.

MG Robinson is Chief, Aviation Branch, Commanding General, U.S. Army Aviation Center and Ft. Rucker, AL and Commandant, U.S. Army Aviation Logistics School.

“Army Aviation, in combination with other deploying lethal forces, could make the difference between peace or war.”

- The Army must be a deployable force—capable of rapidly projecting credible and lethal force packages anywhere in the world.
- The Army must excel at joint and multinational operations, and be sustainable in austere theaters.
- The Army must find the optimum mix of active and reserve components to produce the most affordable, effective, and deployable force.

The Army is taking unprecedented actions in adjusting its warfighting doctrine, force structure, and materiel inventories to account for extreme flux in areas of strategy, fiscal policy, and technology investments. Hard decisions remain. Yet, the correct approach must lie in maintaining the Army's momentum while accommodating change.

What then is Aviation's role in this rapidly changing world?

Warfighting Mission

Aviation technology has been harnessed to provide the combined arms team with enormous flexibility, lethality, and the capability for rapid movement. Aviation assets permit the Army to see and sense the enemy. It permits firepower to be massed quickly. It is essential to sustaining the battle. There is no doubt that Army Aviation has a significant warfighting role in reconnaissance, security, attack, air assault, special forces, and support operations—our contribution is combat-proven and central to the execution of AirLand combat operations.

Since 1986, aviation force structure has been reduced by slightly more than 22,000 personnel. As the Army downsizes from current levels, thoughtful force planning

must design a force with the requisite capability for contingency operations. National military strategy is based upon forward presence and deterrence from CONUS-based forces, both active and reserve component; flexible forces that project a credible warfighting capability when placed early in a potential theater of conflict. Such a force sends a strong signal of U.S. commitment. Army Aviation, in combination with other deploying lethal forces, could make the difference between peace or war.

Investments

A prudent investment strategy must complement the force structure. Our research and development work must press the limits of a rapidly expanding technology base. Procurement of improved aircraft, missiles, and introduction of the RAH-66 Comanche into the fighting force is paramount. Concurrently, we must retire old aircraft, reduce the types of aircraft being supported, procure updated ASE, and field modern refueling and ground support equipment items.

Coming Up

In future articles, I intend to highlight doctrine, force structure, materiel, training, and leadership in the context of our warfighting mission in the AirLand Operations concept. There must be two dimensions to our focus: first, our commitment to a trained and ready force capable of responding to America's call. Second, we must have an eye for the future.

I ask each of you to join me at this watershed time in history to preserve force readiness and help shape the future. ■■■■

Aviation's Place in the U.S. Army

By Captain Peter M. Vozzo

With a smaller force, the Army will face a shortage in both personnel and weapon systems. Since this will be so relevant to operations over the coming years, the Army must allocate its resources and pick the tools for the next war carefully in order to maxi-

mize effect while minimizing structure. Selecting correct weapons and proper organizations based on their lethality and maneuverability will require careful analysis.

Making the correct choices will mean that those professional officers remaining in the Army must continue to work even harder in the future. Although it is much easier to achieve short term benefits than to maximize long term goals, leaders must do what they know is best for the Army. Combat developers and decision makers must think out their options and actions beyond the consequences of their current assignments.

All officers must take the time to meticulously plan out new tactics and operational concepts to their full development.



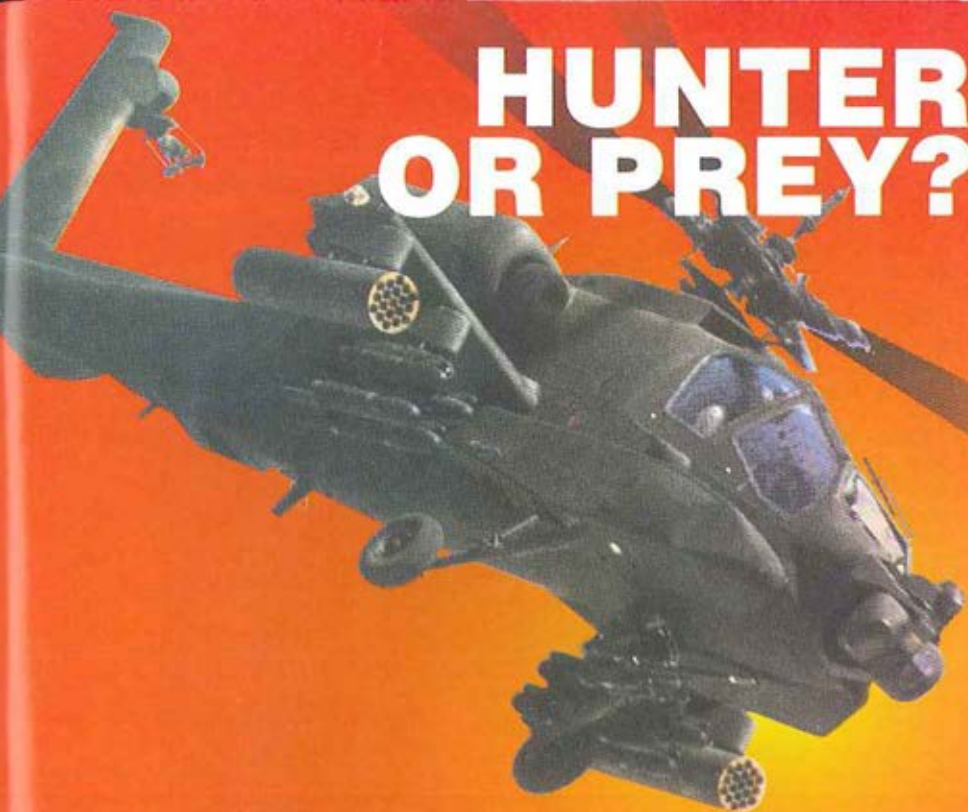
CPT Vozzo is Chief, Operation Research Branch, DCD, Ft. Rucker, AL.

Tactics, systems, and organizations that are outdated and no longer efficient must be replaced. Those that are old but valid or new and innovative must be emphasized. Such tactics, systems, and organizations can make the Army more combat effective in the leaner years to come.

Secretary of Defense Richard B. Cheney summed it up with his mandate that units that are versatile, multipurpose, and rapidly deployable will have priority in all future budget considerations¹. Easily deployable, lethal, and extremely mobile, Army Aviation is a relevant force for today and the future. Aviation, as a combat maneuver organization with its associated systems and tactics, has the potential to play a significant role in the new, smaller Army.

In 1962, Secretary of Defense Robert McNamara clearly saw Aviation's mobility and directed the Army to look at "employment of fresh and perhaps unorthodox

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"... transition to a vertical rising, aerial platform as a main battle vehicle ... is inevitable, as was the transition from horse-mounted cavalry to the tank."

concepts which will give us significant increase in mobility."² In response to the Secretary's directive, the Army put together the Tactical Mobility Requirements Board. The Commanding General of the Strategic Army Corps and the XVIII Airborne Corps, LTG Hamilton H. Howze, chaired this board.

When the board adjourned there was a single conclusion. "Adoption by the Army of the airmobile concept is necessary and desirable. In some respects the transition is inevitable, just as was that from animal mobility to motor."³ Low level, aerial transportation offered a tremendous force multiplier by maneuvering Infantry on the battlefield.

Now, in the early 1990s, the helicopter readily provides the mobility foreseen by the Howze Board. Today, observers recognize air mobility as common practice in the Army. During a low-intensity situation in Panama, Army Aviation enabled a constrained infantry force to occupy virtually an entire country in a single day. A year later, on the other side of the world in a mid-intensity conflict, the largest successful air assault operation in history airlifted an entire division into the center of Iraq to cut off the enemy's withdrawal from Kuwait.

The time has now come to highlight the overwhelming killing power of the helicopter on the battlefield and recognize Aviation's status as a combat maneuver element. The Army should not require the same high-level outside influence as it did in 1962 from the Secretary of Defense in order to recognize Aviation as the principle combat element on the battlefield. If the Department of Defense formed a "Tactical Firepower Requirements Board" today, it might well conclude — "the eventual transition to a vertical rising, aerial platform as a main battle vehicle for shock and firepower is inevitable, as was the transition from horse-mounted cavalry to the tank."

Apache helicopters fired the first shots

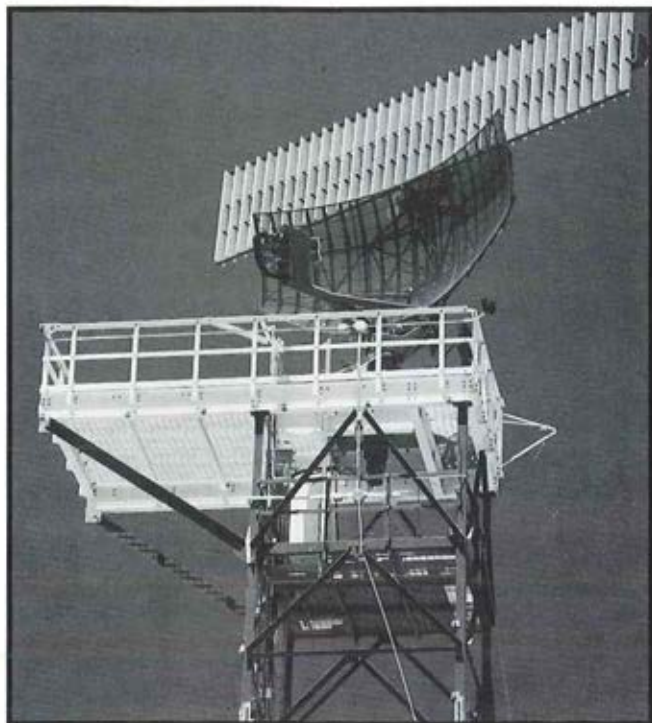
during the Persian Gulf War, opening safe corridors through enemy air defense networks so the jets of the air war could reach their targets. Towards the end of the war, in a six hour operation at night, one attack helicopter battalion killed more than 150 Iraqi tanks during a series of engagements. Aviation, as DESERT STORM demonstrated, is now a very lethal and maneuverable force in land warfare. In addition to these current capabilities, several U.S. Army studies show a clear trend for even more effectiveness in the future. In force-on-force modeling, the system exchange ratios⁴ on the battlefield for helicopters exceed those of tanks.⁵ These ratios favor the helicopter in both the defense and the offense during many different scenarios.⁶

The "Stealing" Factor

Some analysts often argue that the helicopter's high system exchange ratios are because the helicopters are "stealing" targets from the tanks. These analysts insist that the helicopters are killing the same target an armored unit would eventually kill if given battlefield geometry and time. This ignores the strategic/tactical advantage of the helicopters on the non-linear battlefield, where time is critical and getting into position first is often decisive. The "stealing" factor actually demonstrates a point in favor of the helicopter over slower, less agile systems.

On the non-linear battlefield, lethal forces will attempt to rapidly mass and do battle at their chosen point. On offense these actions will have to take place very quickly to preserve the element of surprise. On defense there will be very little time available to react and counter this type of surprise attack. Helicopters can move faster than any other Army combat maneuver force while using terrain for protection without being bound to it for mobility. They can traverse the battlefield,

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over any type of terrain, at speeds in the excess of three kilometers per minute. Helicopters possess the unique capability to be on the scene quickly to conduct operations throughout an entire corps area. During the "Land Combat" phase of Operation DESERT STORM, attack helicopter battalions by-passed enemy armor rather than fighting through it. This enabled them to get into positions from which they engaged more lucrative threat forces. The ability to attack the enemy at his center of gravity proved to be decisive and was instrumental in quickly ending the war. Given the helicopter's speed and exchange ratio, Aviation clearly possessed the ability to do more with less.

Added to this perspective of battlefield effectiveness is the fact that helicopters are evolving into better fighting machines every year. Aviation will soon arm its helicopters with Fire and Forget missile systems for use against armored ground vehicles. These missiles will increase systems accuracy, rates of fire, and engagement ranges. As the advent of technologies such as those behind the Rotorcraft Pilots Associate (RPA) and the Day/Night Adverse Weather Pilotage System (DINAPS)⁷ program become practical in the early 21st Century, the helicopter's effectiveness will leap even farther ahead. The helicopter will become the weapon system of the future for delivering overwhelming firepower and shock effect to the enemy.

Aviation's mobile firepower is why Aviation is so important during combined arms operations. When working to prepare an order, commanders at all levels must plan Aviation's usage correctly or lose some of its effectiveness. Aviation forces should be totally integrated into the scheme of tactical and operational maneuver—not as an afterthought or a contingency back-up. Aviation is a part of the overall ground maneuver force, not a separate organization.

The very nature of AirLand Operations⁸ on the non-linear battlefield dictates the use of Aviation's maneuverability. The Army should always organize its units into task forces to allow them to best cope with the situation at hand. During this task force organization

process there will be times, such as large cavalry operations, when it will be best for Infantry or Armor forces to be task organized under the operational command of an Aviation unit.

Mutual Understanding

To regularly attain the best possible results, all of the Army's maneuver branches must understand each other. The first step in getting other branches to understand how Aviation works is for Aviation to thoroughly understand how each of the other branches works. Armor and Infantry have been winning battles for a long time. Each individual aviator has the responsibility to know the basics of how the other branches operate. Much of what Aviation will do on the future battlefield is history replayed with helicopter employment.

Armed with a working knowledge of how other branches operate, aviators must constantly be ready to tutor others on how their branch works. One of the most prestigious jobs for an aviator should be that of the liaison officer assigned to work with the traditional ground branches. The liaison officer has a responsibility to advise other maneuver arm leaders on how to properly employ Aviation assets and must anticipate the requirements of those assets. His duty is not only to ensure synchronization between the combined arms during mission execution, but also to represent Aviation at all times to the leaders of Infantry and Armor branches.

The more established, conventional combat arms branches will not easily accept how significantly different the look of the future battlefield will be from that with which they are now very familiar. However, once other branches realize what AirLand Operations doctrine is about and understand how attack helicopters are employed they will be convinced that Aviation is, indeed, a significant maneuver element.

Aviation must make the transition from the recent status quo easily understood by Armor and Infantry. Aviation must be ready to show the other branches that it, too, is of the "muddy boots" Army. Army Aviation is not like the Air Force. It does not need long, paved runways or permanent crew quarters from which to operate. Aviation is a part of

the ground force. The Army needs the cooperation of each of its branches if it is to continue to operate at full potential. Synergy cannot be achieved in a vacuum.

Army Aviation has the capability to ensure that the U.S. Army's smaller size does not lead to compromised battlefield results. Aviation can enable the Army to continue to provide the enhanced readiness and combat effectiveness, when called for, that the nation has learned to expect. The Army, as a whole, must recognize this and ensure that Aviation possesses the necessary means to do so after down-sizing is complete.

Aviation must be the Army's growth industry during this time of defense reductions. The new aerial weapon systems that the Army is scheduled to acquire during this decade will make Aviation a principal player during combined arms operations. As a leader, Aviation must carefully plan out how it will work with not only the Infantry and Armor but also sister services on the battlefield of tomorrow to ensure that the enemy is met rapidly, fought aggressively, and defeated totally!



¹Cheney, Richard B., "Cut the Budget, But Mind the Risk", *Defense*, Department of Defense, Mar/Apr 1990, p.4.

²Tolson, John J., *Airmobility: 1961-1971*, Department of the Army, 1973, p. 19.

³*Final Report, Tactical Mobility Requirements Board*, Department of the Army, 20 August 1962, p. 95.

⁴System Exchange Ratio (SER) is a numerical representation for the effectiveness of a particular weapon system against all opposing systems.

⁵*Armored Systems Modernization COEA, Volume II, Main Report*, TRADOC Analysis Command—Fort Leavenworth, February 1990, pp. 4-40.

⁶*Longbow COEA, Volume VIII, Effectiveness*, TRADOC Analysis Command—White Sands Missile Range, April 1990, pp. 44-46.

⁷The objective of this program is to accelerate the application of cockpit automation and artificial intelligence.

⁸Formerly known as AirLand Battle-Future.

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Aviation Operations Update

By Sergeant First Class Michael A. LeBleu

Periodically, the Doctrine Division (DOCD), Department of Tactics and Simulation (DOTS), evaluates and updates its doctrinal literature priorities. On 6 January 1991, the Chief, DOCD, made the decision to place FM 1-300, "Procedures for Flight Operations and

Airfield Management", on hold due to the subject matter expert's temporary assignment to Southwest Asia in support of Operations DESERT SHIELD/STORM. With the cessation of hostilities in the Kuwaiti Theater of Operations (KTO), restoration of Kuwait well underway, and redeployment of troops from Southwest Asia in progress, work on FM 1-300 has once again begun.

Though this manual has not yet been released to aviation units for worldwide review, information concerning aviation unit tactical operations, especially those units supporting Operations DESERT SHIELD/STORM, is solicited for possible inclusion in the manual. Every level of aviation operations should be concerned over the contents of FM 1-300. In order for this manual to meet the need of the units in the field, request that constructive feedback, sugges-

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tions, comments, and recommendations be forwarded on DA Form 2028, to: Commander, United States Army Aviation Center, ATTN: ATZQ-DOT-DD, Ft. Rucker, AL 36362-5263.

In the article "93P Aviation Operations Specialist" published in the 31 July 1990 issue of ARMY AVIATION MAGAZINE, it was mentioned that FM 1-300 was to be changed to a training circular. By definition, FM 1-300 will remain a field manual. The Department of Enlisted Training's (DOET) original intent was to provide aviation units with a one-source document outlining all TDA & TOE unit and tactical aspects of flight/TOC operations and airfield management. This unfortunately could not be accomplished due to the constant revision of source material. However, a recent review of reference material used in preparing the preliminary and initial coordinating drafts of FM 1-300 revealed that incorrect informa-

tion had been incorporated into the manual. This was due in part by using outdated regulations, field manuals, FAA Handbooks, and TO&E organizational information. The most current regulations, manuals, etc. have since been obtained and appropriate corrections have been made. The next coordinating draft, due to be fielded during the third quarter of FY 92, will reflect these changes.

Unit Operations

At present, Chapter Five, "Unit Operations", is being expanded to include the current aviation personnel authorizations for S-3s in TO&E units, a draft tactical SOP, and wartime records and reports requirements. It was necessary to expand this chapter, providing aviation units with a broader spectrum of tactical operations information since nothing has been published outlining the responsibilities of aviation operations specialists assigned to higher echelons.

Chapter Seven will also be rearranged, placing the automated flight record section ahead of the manual flight record section. This chapter also contains more detailed information and examples pertaining to flight record management and computation of enlisted flight pay (DA Form 759-3). It will also provide regulatory procedures concerning personnel who fail to complete their Aircrew Training Program (ATP) requirements.

Form Change Pending

There are three very important items of information that have a direct bearing on the contents of Chapter Seven. First, the U.S. Army Aviation Systems Command (AVSCOM) has asked for additional information to be placed on DA Form 2408-12. This has resulted in a modification of the 2408-12 now in use. Pending changes have been incorporated into DA Pamphlet 738-751 with a new draft DA Form 2408-12. We are anxiously waiting to see if the Department of the Army is going to adopt the new form before we commit ourselves and publish the new version of DA Form 2408-12 in FM 1-300. DA Pamphlet 738-751

also provides an example of this draft DA Form 2408-12 to include detailed instructions outlining its use.

DA Pamphlet 738-751 also provides information on the provision of certified true copies of DA Form 2408-12 to pilots who perform flights in aircraft not assigned to their unit or activity. The pilot in command of the flight will annotate the DA Form 2408-12 with a remark, "I certify that this is a true copy of the DA Form 2408-12" and the date of the flight. The pilot in command's signature will be entered following the certification date.

Second, there has also been some confusion on when an individual may log combat and imminent danger flight time. According to Army Regulation 95-1, personnel may log combat time when the aircraft is flown directly against the enemy within a designated combat zone. Imminent danger time may be logged when Imminent Danger Special Pay is authorized per Department of Defense (DoD) Pay Manual, Chapter 10, Section 11007. For example, during the Persian Gulf War, if a UH-60 accompanied a flight of AH-64 aircraft as part of a Search and Rescue operation into enemy-held territory, where there was a high probability of drawing hostile fire, the UH-60's aircrew would log combat time. However, if that same UH-60 made a parts run from Rahfa to King Khalid Military City (KKMC), the aircrew would log imminent danger time because the probability of drawing hostile fire was highly unlikely, and because Saudi Arabia was designated an imminent danger area.

The third concern is the tracking imminent danger time for both aviator and non-aviator personnel. Since the present DA Form 759 series forms do not provide space for tracking imminent danger flight time for aviator and nonaviators, it is recommended that the lower portion of the remarks section of DA Form 759-3 be used to record this information on nonaviator personnel. It is further recommended that an annotation indicating the total number of imminent danger hours be made in the remarks section of DA Form 759 for aviators. Once the new DA Form 759

series becomes available, these hours will be transferred in accordance with instructions provided in FM 1-300.

Annual Writ

The Annual Aviation Written Examination, long a part of an aviator's proficiency requirements, was put to rest 31 September 91. DES has been informed that aviators, beginning in FY 92, will no longer be required to complete the annual written examination as part of their ATP requirements.

News from the schoolhouse indicates that the conventional typing course, once a part of the Aviation Operations Specialist Course (AOSC) Program of Instruction (POI), will no longer be taught. The AOSC Branch Chief has stated that typing is no longer considered a critical 93P task and was removed from the list of required course subjects by the last critical task selection board. This means that students in the AOSC are no longer required to demonstrate typing proficiency to become fully qualified aviation operations specialists. With the removal of typing from the AOSC POI, appropriate changes to AR 611-201 had to be made concerning the prerequisites for attendance at the AOSC.

The conventional typing course has now officially been replaced by "keyboard fundamentals". These fundamentals were designed to familiarize the 93P student with the computer's characteristics and functions, the keyboard itself, and how to input data accurately. Aviation operations students are now tested on their ability to input data accurately into an existing database, and not on their speed. This process affords students the opportunity to do several things. It allows them to electronically update a unit database by transferring flight record information contained on an individual diskette to the computer's hard drive. Once the information transfer and database update has been completed, it allows the student to input data into that individual's file, perform DA Form 759 closeouts, and remove individuals from the unit database by transferring individual flight record

information from the computer hard drive to a floppy diskette that will accompany the individual to his next duty station.

Flight Record Automation

Although Version 2.1 is presently being taught in the AOSC, DES and DOET have been working diligently on providing a computer program that will potentially revolutionize the Automated Flight Record System (AFRS). Through their combined efforts, this goal may have been achieved in AFRS Version 4.0.

This program, although still in the developmental stages, is expected to undergo rigorous testing during late summer or early fall of 1991. AFRS Version 4.0 will have a faster internal operations function incorporated within the program itself, providing an increased data transfer response time when accessing individual data from a unit's database. In other words, rather than waiting several seconds for a screen to appear, data transfer will occur almost instantaneously.

Flight records managers will no longer be required to manually calculate the number of hours flown for nonaviator pay entitlements. The basic flight pay entitlement computation for nonaviator personnel is the only calculation that has, at present, been incorporated into this newest version of AFRS to date. AFRS Version 4.0 automatically calculates the total number of hours flown for any given month and places that total in column F of DA Form 759-3. It will then indicate whether or not the individual is entitled to flight pay for that month. Computation of entitlement eligibility, using excess and unused hours, is still in the developmental stages and will be incorporated in future versions of AFRS. What has yet to be programmed into AFRS is flight pay entitlements based on the 120-day notice, commander's verification of nonavailability of aircraft, and nonaviator illnesses. Barring any unforeseen circumstances, AFRS Version 4.0 is expected to be fielded by December 1991.

Commanders are reminded that the DES AFRS software is the only version authorized for flight record management. ■■■■

The Voice of the Soldier in Comanche

By Lieutenant Colonel James M. Delashaw

The Light Helicopter (LH) Source Selection Evaluation Board (SSEB) recently completed the difficult task of evaluating two outstanding industry proposals for the LH weapon system—the RAH-66 Comanche. The Boeing Sikorsky proposal was

selected as providing best overall value and MANPRINT played a significant role in the process. This is a good time to reflect on what has been accomplished with respect to MANPRINT and what the future holds for Manpower/Personnel Integration as the Comanche program moves forward into the Demonstration/Validation Prototype Phase (Figure 1, Program Schedule). The need for warfighting enhancements made possible through designed-in effective man-machine interface does not diminish now that the winning team has been chosen. The DEM/VAL Prototype Phase must continue aggressive application of MANPRINT.

Both industry teams were in competition to win the largest acquisition

program—approximately \$34 billion—in the history of the Army. In briefly recapping the past, it is important to remember that both industry teams (McDonnell Douglas/Bell and Boeing Sikorsky) have been under contract since 1988 performing Demonstration/Validation to refine their designs and technologies through iterative design and trade studies. The DEM/VAL Statement of Work included certain MANPRINT efforts which the government felt were appropriate and timely. In support of the contracting teams' efforts the government provided representative user personnel to industry to participate in simulation development of crew stations and mission equipment. Each contractor team was provided eight aviators with experience and backgrounds in OH-58D or AH-64A aircraft. These aviators, hand-picked from FORSCOM and USAREUR units, provided invaluable insights and



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PROGRAM SCHEDULE

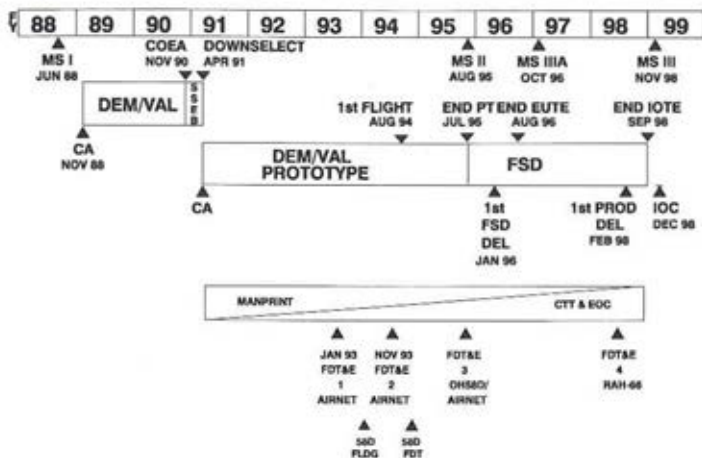


Figure 1

information to the contractors during their design efforts. Additionally, maintainers were provided from FORSCOM and TRADOC units to provide their insights, skills, and knowledge on the maintainability aspects of the emerging designs. Finally, near the end of the DEM/VAL phase, a government team of aviators (operational pilots from FORSCOM, USAREUR, and WESTCOM) and testers (developmental pilots from the Aviation Development and Test Activity, PM LH test personnel, and Operational Test and Evaluation Command [OPTEC] personnel) assessed full mission simulation capabilities of each contracting team. Simulated missions were flown by operational pilots while assessment and report preparation were performed by the test personnel. This effort provided the government with insight into each contractor's evolving crew station designs and man-machine interfaces. The assessment results were briefed and provided to the SSEB.

As an incentive to integrate MANPRINT design philosophy into the proposals and commitments, the government provided industry prior to the SSEB the evaluation

weight of MANPRINT and its factors during the source selection process. The LH Program was aggressive in the area of MANPRINT. MANPRINT was established as a separate element and received a greater percentage of the evaluation score than it had in any previous source selection. In fact, MANPRINT, Training, Reliability, Availability, and Maintainability (RAM), and Integrated Logistics Support (ILS) elements (thought of as supportability) were collectively weighted equal to the Technical Area (Figure 2). Consequently, industry recognized the message and responded with enthusiasm in their incorporation of MANPRINT.

In order to ensure the government/industry team maximizes the benefits derived from up-front design influence, a team of "user greensuiters" is assigned to industry. This team is neither a part of the Defense Plant Representative Office residing at contractor plants, nor a part of the Program Manager's office. This team is comprised of four operators/maintainers who are assigned to the TRADOC System Manager (TSM)-Comanche. The TSM Forward team composition and responsibilities are at Figure 3. The personnel filling these spaces



SOURCE SELECTION WEIGHTING

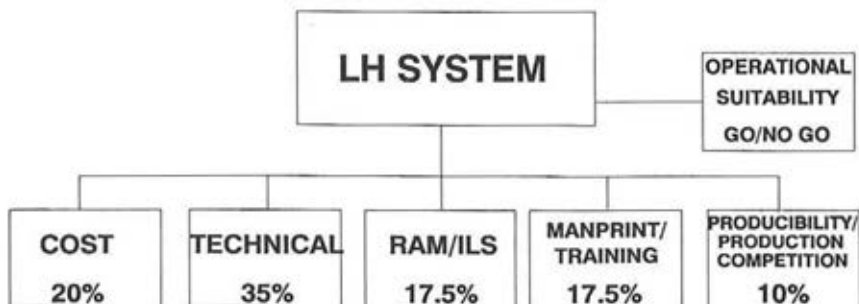


Figure 2

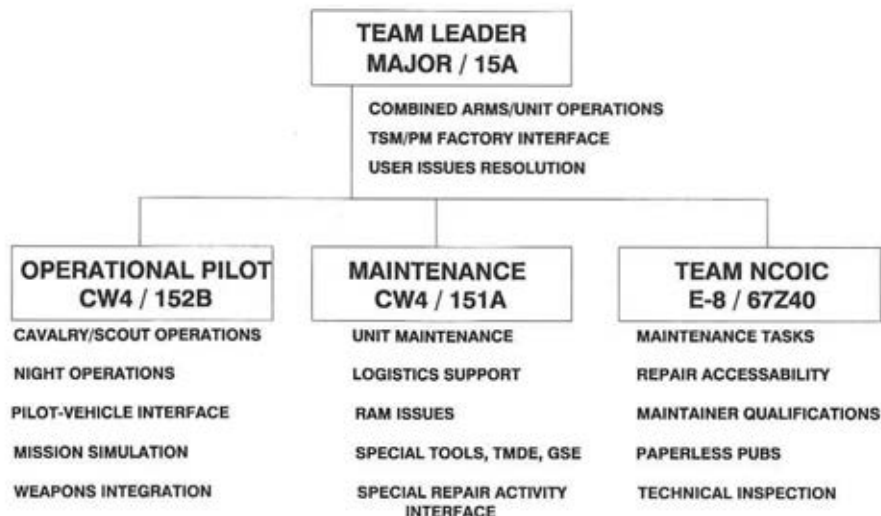
were selected for their individual skills, knowledge, and experience to ensure the contractor benefits from the resident operational subject matter experts.

The TSM Forward is an extension of the TSM office at Ft. Rucker and is fully involved in the development of the RAH-66. It interfaces daily with the contractor design team, and participates as members of a large joint working group known as the Crew Station Working Group (CSWG). The CSWG includes members of two advisory panels—the Aircrew Advisory Panel, which advises design engineers on the Air Vehicle and Mission Equipment Package, and the Maintenance Advisory Panel that advises design engineers on maintainability and logistical matters. These two advisory panels, and the CSWG, are comprised of both contractor and government personnel. The TSM Forward staff will be augmented periodically (about one week every two months) with aviators and maintainers from the MACOMs for participation in CSWG activities. This augmentation ensures a broad and up-to-date spectrum of backgrounds and experience. In addition to the CSWG, the TSM Forward soldiers bring their backgrounds and experience to the Comanche MANPRINT Joint Working Group

and the Comanche System Safety Working Group.

By having TSM Forward at the plant on a permanent basis, the contractor gains continual access to operational suitability/effectiveness considerations and issues. Detailed questions about how Army Aviation flights can be answered rapidly and correctly. The TSM Forward personnel expedite the flow of accurate and up to date operational information to the contractor, ensure that the program capitalizes on Lessons Learned, provide the operators' and maintainers' perspectives to designers and trade study analysts, and report progress to the TSM. By virtue of their membership in the Army Aviation community, and as ambassadors of the Aviation Center and TRADOC, these individuals know where to get the necessary information to support industry. Another aspect of their presence is that they are the on-site eyes and ears of the user. TSM Forward maintains a constant vigil over contractor activities to integrate the user and the weapon system into an operationally effective combat multiplier.

A database prepared by the SSEB will be provided to the TSM Forward. This database identifies issues/potential issues which Board evaluations felt merited over-



sight and attention during DEM/VAL Prototype. The TSM Forward will use this oversight to ensure issues impacting operators and maintainers are resolved. Additionally, the team possesses the issues and criteria listed in the System MANPRINT Management Plan and System Safety Plan. Examples of database areas of concern are:

- optimized placement of switches and displays to enhance performance of the crewman
- sufficient and unrestricted external visibility to facilitate armed reconnaissance and air combat
- FLIR presentation on the Helmet Mounted Display that is adequate for targeting at ranges consistent with armament capabilities
- unrestricted access to repair areas
- ensuring that proposed design changes do not diminish the tactical (C-130) air transportability capability of the RAH-66.

These are just some of the interests which the TSM Forward team will have. Whenever the team feels that the design is not optimizing operational effectiveness and integration, it advises the TSM. The TSM, as "Voice of the Soldier", and the Program

Manager (PM), the materiel developer, then jointly resolve the issue. If design direction is necessary, the PM issues direction through his Army Contracting Officer.

Putting a team in place to influence MANPRINT is the beginning of the user involvement after contract award and prior to receipt of the production aircraft. Over time, the design will begin to stabilize as it incorporates those early MANPRINT influences. The next logical step will be to provide operational influence into Comanche testing. This is accomplished through the Combined Test Team (CTT—Figure 1) comprised of contractor and government personnel. The CTT starts in 1991 and will mature to a full complement of people by 1996. The TSM Forward plays an early role in that activity as the MANPRINT influence evolves into testing. The RAH-66 Comanche Operational Capabilities (EOC) unit being formed at Ft. Rucker will provide operational aviators and maintainers to support the tests. The CTT and EOC are subjects of another story for a future issue.

In closing, the TSM staff applauds the support from Aviation Brigade and Battalion
(Comanche — continued on page 53)

Army Aviation and the Helicopter: the Interwar Years

By Doctor John W. Kitchens

As I explained in the first article of this series, the Army Ground Forces exhibited little interest in the helicopter until near the end of 1945. During World War II, the organic aviation requirements of the Army Ground Forces (Army Field Forces after March 1948

and now the combat arms branches) were filled by L-4s and a few other small fixed wing aircraft. Although the Army Air Forces acquired several hundred Sikorsky-built helicopters during the war and used them for evaluation, experimentation, training, and for a few rescue operations, the Army Ground Forces only conducted a few tests on one borrowed helicopter. The Navy and Marine Corps likewise paid relatively little attention to the helicopter during the war; the Coast Guard was more interested but, since it was attached to the Navy, it was able to acquire only a very few helicopters for testing, training, and rescue.

During the interwar years, the Navy's attitude toward the helicopter

changed little, as demonstrated by the words of the deputy chief of Naval Operations in 1949: "We find that the helicopter is still an ungainly child. . ." The problem was that helicopter technology at that time did not permit the antisubmarine warfare missions that were of primary interest to the Navy. Nevertheless, the Navy increasingly used the "ungainly child" for sea rescue and experimented with its use for observation and scouting. The Coast Guard, having regained its independence from the Navy, continued acquiring helicopters, training pilots, and developing tactics for both sea and land rescue operations.

The attitude of the Marine Corps with regard to helicopter acquisition and use changed markedly during the interwar years. Although the first Marine did not become qualified as a helicopter pilot until August 1946, the Corps became the leader



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among the U.S. Armed Forces in the use of helicopters by 1950. The driving force was the perceived need to perfect new amphibious assault techniques for the post-World War II era. This concern resulted in the Marine Corps' developing, testing, and implementing the concept of amphibious aerial assault or vertical envelopment, a concept which involved practically all aspects of helicopter applications employed anywhere at that time.

During the interwar years, the Army Air Forces (U.S. Air Forces after 15 September 1947) experienced a diminishing budget and, correspondingly, a reduced interest in the development and acquisition of helicopters. In the early years of the Cold War, Air Force emphasis was more than ever on strategic air operations and aerial defense. Although the Air Force reluctantly conducted some tests of cargo helicopters during those years, the helicopter's role in that service was gradually becoming limited to search and rescue services.

While Army leaders during the interwar years were by no means unanimously convinced of the helicopter's utility, the commander of the Army Ground Forces GEN Jacob L. Devers, and many others were coming to realize its potential for moving cargo and artillery pieces over rugged terrain. LTG James M. Gavin and a growing minority also believed that the helicopter had other possibilities for the Army of the future.

Official Requirements

Early in 1946, another Army general, Joseph W. Stilwell, served as president of the War Department Equipment Board (commonly known as the Stilwell Board). In this board's 29 May 1946 report, the Army Ground Forces' requirements for helicopters were officially stated for the first time. These requirements consisted of the following:

- light liaison helicopters;
- two or three place liaison helicopters;
- 1,000-2,000 pound payload transport helicopters;
- 2,000-6,000 pound payload transport helicopters, convertible to cargo, passenger, or ambulance use.

The Army Ground Forces acquired their first helicopters, two place Bell YR-13s, in early January 1947. Fourteen of these aircraft were received and distributed for testing and training by the end of the year. GEN Devers requested authorization in mid-1947 for the purchase of 150 more Bell helicopters and also recommended the early development and acquisition of cargo helicopters. Although this request was approved by the acting chief of staff of the Army, the Army Ground Forces/Army Field Forces were unable to acquire any cargo helicopters and obtained only around 60 more Bell two-place helicopters, H-13Bs, during the following three years.

Proven Value

In the meantime, testing by the Army and other services and several Army studies culminated in an Army Field Forces Board No. 1 study report, dated 16 November 1949. In recommendations remarkably similar to those of the Army Ground Forces in 1945, this report stated that various tests and studies had proven the value of helicopters for a wide array of military uses and that requirements existed for five types of helicopters, viz:

- a "flying crane" type capable of transporting 20,000 to 25,000 pounds for over 100 miles;
- another "flying crane" type capable of transporting 50,000 pounds for ranges under 100 miles;
- an 8,000 pound cargo capacity helicopter for transporting supplies, personnel, and equipment over a 200 mile range;
- a four-place helicopter ambulance for evacuation of wounded from the combat area;
- a two-place helicopter to supplement or replace the fixed wing two-place airplane;
- and a single-place helicopter for short range reconnaissance.

The Board No. 1 study report was circulated to interested Army agencies for comment. Respondents to the coordination request generally concurred with the requirements for several types of helicopters. Although most Army leaders had come to accept the need for a variety of rotary wing

aircraft, most of them did not expect the Army itself to acquire and operate all of them.

Existing agreements between the Army and Air Force placed weight and use limitations on the Army's aviation assets and gave the Air Force other controls over Army Aviation. To understand how these limitations and controls had hampered the Army's helicopter program since 1947 and would continue to do so after the 1949 study report, we need to examine the relationship between the Army and the new U.S. Air Force.

The "Key West Agreement"

The Armed Forces Unification Act and the National Security Act of 15 September 1947 abolished the War and Navy Departments, created the Department of Defense, and made the U.S. Air Force a separate military service co-equal to the Army and the Navy. These acts and the subsequent "Key West Agreement", promulgated by the Secretary of Defense on 26 March 1948, gave the Air Force responsibility for aviation with specified exceptions.

The major exception to the Air Force monopoly over aviation was the authority given to the Navy and Marine Corps to develop and use air power without effective significant limitations except strategic operations. Another exception of more concern to us here was the provision that "the U.S. Army [was to consist of] land combat and service forces and *such aviation and water transport as may be organic therein.*"

The Key West Agreement further limited the Army's development and use of aircraft by giving to the Air Force the responsibilities to:

- furnish close combat and logistical air support to the Army, to include airlift, support, and resupply of airborne operations, aerial photography, tactical reconnaissance, and interdiction of enemy land power and communications;
- and provide air transport for the armed forces except as otherwise assigned.

Finally, the Key West Agreement withheld from the Army any mission assignment which would justify force requirements for airlift, tactical air operations, or air defense

other than anti-aircraft artillery. Although the Key West Agreement did not stipulate a maximum weight for Army aircraft, the Air Force was able to limit them to small liaison-type fixed wing aircraft and to two-place helicopters until the 1950s. The Air Force prevailed in this point of contention because of the Army's narrowly defined aerial mission and because the Air Force Air Materiel Command maintained total responsibility for basic research, development, testing and purchase of all aircraft for the Army as well as the Air Force.

Limitations

Size limitations on Army fixed and rotary wing aircraft were formally fixed by the "Joint Army and Air Force Adjustment Regulation 5-10-1," dated 20 May 1949. This agreement constituted somewhat of an Air Force concession to the Army, however, in that it permitted future Army rotary wing aircraft to weigh up to "3,000 to 4,000 pounds when empty"—considerably more than any Army helicopter prior to that time. The 1949 agreement also opened new possibilities to organic Army Aviation by giving it various types of surveillance, reconnaissance, and limited courier, evacuation, and resupply missions. However, other aviation requirements of the Army were still to be provided by the Air Force.

Had the Air Force given more attention to the air support needs of the Army during the late 1940s, the Army's dissatisfaction with these limitations and dependencies would still have developed, but much more slowly. The official Air Force position, however, was that "the peacetime requirements for Air units to perform the air support mission [was] neither so large nor so urgent as that for units to perform the air defense and strategic bombing missions." This attitude resulted in the 1948 reduction of Tactical Air Command from a major command to a subordinate command under the Continental Air Command.

Furthermore, the Air Force refused to fund research and development and to test and procure the helicopters that many Army leaders were demanding. In 1948, GEN James M. Gavin, in his capacity as presi-

dent of the Army Airborne Panel, attempted to convince the Air Force Director of Requirements of the Army's need for more and larger helicopters. Finally, exasperated by GEN Gavin's persistence, the Air Force general replied:

"I am the Director of Requirements and I will determine what is needed and what is not. The helicopter is aerodynamically unsound. It is like lifting oneself by one's bootstraps. It is no good as an air vehicle and I am not going to procure any. No matter what the Army says, I know that it does not need any."

Dependence

The Army also continued to be dependent on the Air Force for pilot and aircraft maintenance training during the interwar period. The Army Air Forces trained a few Army Ground Forces helicopter pilots on an irregular basis in late 1945 and early 1946. Bell Helicopter Corporation then trained several Army pilots to fly the YR-13s acquired in early 1947.

In accordance with agreements between the Army and Air Force for implementation of the National Security Act of 1947, the Air Force began providing primary rotary wing training to Army pilots at San Marcos Air Station, TX, and rotary wing mechanic training at Keesler Field, MS, around September 1947.

The Air Force created a separate, shorter course for Army pilots rather than training them along with Air Force helicopter pilots. Consequently, the Army established its own advanced helicopter tactical course at Ft. Sill in 1948.

Throughout the late 1940s, there were constant problems associated with the divided training responsibility for Army helicopter as well as fixed wing liaison pilots and mechanics. Shortages of aircraft and spare parts, different standards in selection of trainees, the Army's dissatisfaction with the training provided by the Air Force, and the Air Force's dissatisfaction with the Army's inability to send fixed numbers of students at regular intervals were only some of the causes of disputes.

In November 1949, the Army issued a regulation which stated that "training of Army officers, . . . as aviators and aviation officers is the responsibility of the Department of the Army." No efforts were made at that time to implement this assertion of training responsibility, but the dissatisfaction among Army leaders of various levels with the Air Force control over training and other aspects of their helicopter program was growing rapidly.

As I will show in the next article in this series, shortly after the onset of the Korean War, the Army would initiate a concentrated campaign to escape from Air Force controls so as to expand and invigorate its helicopter program.

IIII

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ARMY WAR COLLEGE AIR ASSAULT ROUNDTABLE

By COL Eugene H. Grayson, Jr., Ret.

The Army War College hosted an Air Assault Roundtable, entitled "Air Assault—The Strategic Vision," on 22-23 May 1991, at Carlisle Barracks, PA. The objective of the conference, hosted by Major General Paul G. Cerjan, War College Commandant, was to explore roles, missions and structure of the Air Assault Division of the future.

The Roundtable's initial briefing, which covered the historical background of the air assault/air mobile concept, was given by LTG Harry W. O. Kinnard, Ret., former Commander of the 11th Air Assault Division and first wartime commander of the 1st Air Cavalry Division. MG Binford Peay, Commander of the 101st Airborne Division (Air Assault), followed with a briefing on the operations of the 101st during Operations DESERT SHIELD/STORM. MG Rudolph Ostovich, then Commander, U.S. Army Aviation Center, completed the Formal Briefings with an update on future aviation systems and structure, and also included aviation accomplishments during the Gulf War.

Unquestionably, the highlight of the Conference was the attendance and participation in the Roundtable by several notable former Army Aviators who were so instrumental in the development, training, testing and fielding of the air assault/air mobile concept which has resulted in Army Aviation being a full partner in today's combined arms team. Included in that distinguished group were retired Generals Hamilton H. Howze and Robert M. Shoemaker, returned Lieutenant Generals John J. Tolson, Robert R. Williams, Harry W. O. Kinnard, and Richard T. Knowles, and retired Major Generals George S. Beatty and George W. Putnam.

Army Aviators from the War College Class of '91 also participated in the Roundtable discussions, which offered a positive exchange of views and experiences from the early days of the "Howze Board," through the Aviation reorganization ARCSA III and IV and the formation of the Aviation Branch, and the recent contributions and highlights from the Gulf War.



5th Row l to r: COL Snelgrove, COL Garrett, MG McNair. 4th Row l to r: COL Grayson, LTC Callen, MG Malley, LTG Knowles, COL Van Eaton, LTC McHaffey, Dr. Berenson. 3rd Row l to r: LTC Richter, LTC Ruth, LTC Stewart, MG Putnam, GEN Showmaker, COL Neal, LTC Belich, LTC Crews. 2nd Row l to r: MG Silvasy, COL Duck, LTC Crampton, MG Beatty, LTG Kinnard, LTC Curtis, LTC Elder, LTC Thomas. 1st Row l to r: LTC Ahern, LTC Anderson, MG Peay, LTG Tolson, General Howze, LTG Williams, MG Ostovich, LTC Timmerman, LTC Roy.

ASE PM DESERT SHIELD/ DESERT STORM Overview

By Colonel Thomas E. Reinkober

I will never forget the first week of August 1990. I became the new Project Manager for Aircraft Survivability Equipment (ASE) here in St. Louis, MO at about the same time Saddam sent his Iraqi forces into Kuwait. As the U.S. Army was being mobilized and

deployed to Southwest Asia (SWA), I immediately embarked on an all-out effort to accelerate the fielding of existing ASE to CONUS Aviation units prior to their departure. In addition, I began accelerating production (in some cases, three shifts a day), of the most modern ASE in our inventory. In particular, we accelerated the production of the AN/ALQ-144A Infrared Jammer, the Quiet Camp version of the AN/ALQ-136 Radar Jammer, and the Scout Attack AN/APR-39A(V)1 Radar Warning Receivers. During the next three months, a concentrated CONUS fielding effort took place, even to the point where I had civilians from my office out on the tarmac in bib overalls and hard hats putting ASE in

the aircraft prior to their being shrink-wrapped and deployed. In one case, I had a Major climbing up and down various levels of a ship in Savannah Harbor changing out attack helicopter radar jammers for the more modern Quiet Camp version. Last Thanksgiving, I deployed a team of officers from my office to Dhahran in SWA to personally assist in the in-country fielding of our hardware.

Once these officers were in place, I got the shock of my life at the reports I received back from our aviation units in SWA. First of all, the "distribution" system was completely broken. By that, I mean that hardware was arriving by the plane load but a lot of it was ending up in a 50 acre bone yard rather than being efficiently distributed to the aviation units that were scattered through Saudi Arabia. The other thing that became immediately evident to me was that the aircraft ASE installation kits



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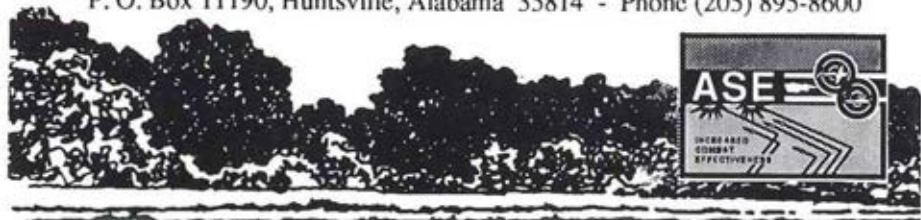
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**William R.
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Expendable CM
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Mario Garcia, Jr.
Assistant PM (ASE)
Training
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CPT
Donnie C. Turner
Assistant PM (ASE)
Infrared CM
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(wiring, brackets, cables, connectors, etc.) were in a sorry state of repair.

Then, of course, there was the ASE training aspect. I found a really bad situation in the training area, particularly from the pilot (and commander) aspect. Aircrews in general were very unfamiliar with their ASE, both in how to operate and use it as well as knowing what it could do for them.

This problem was compounded by the huge vacuum that existed between the battalion/brigade S-2s and the individual aircrew members. By that, I mean it is one thing to have a general laydown of the threat situation, but it is an entirely different matter to have someone who is intimately familiar with the specific Iraqi threats, their specific characteristics, and knowing exactly what ASE frequency settings should be utilized against them. There was no one to walk the flight line with this knowledge, ensuring that the aviators had their ASE up and running, that they had it set properly, and that they knew the most optimum tactics to utilize for maximum survivability and combat effectiveness.

I had an on-site team of people in-country from my office supported at various times by a contractor team of 20 different personnel. You may recognize the names of some of the people from my office as they personally distributed, installed, supported, and trained aviators from one end of SWA to the other. LtCol Pete McGrew, USMC, MAJ Joe Durso, MAJ Craig Searfoss, MAJ Scott Healy, CPT Donnie Turner, MSG Larry Landon, and Mr. Jim Carter comprised the nucleus of our support with the help of approximately 20 different contractor personnel from several different ASE prime contractors (they all did a super job).

Over 3,100 total ASE systems were fielded. Over 530 aircraft installation kits were checked out and repaired by our on-site team. Over 40 electronic warfare classes were given to different aviation units. In one case, a unit labelled this class a "briefing from hell." It may have been intense and the units may have been tired, but I can assure you that after this class, they knew what their threats were, what

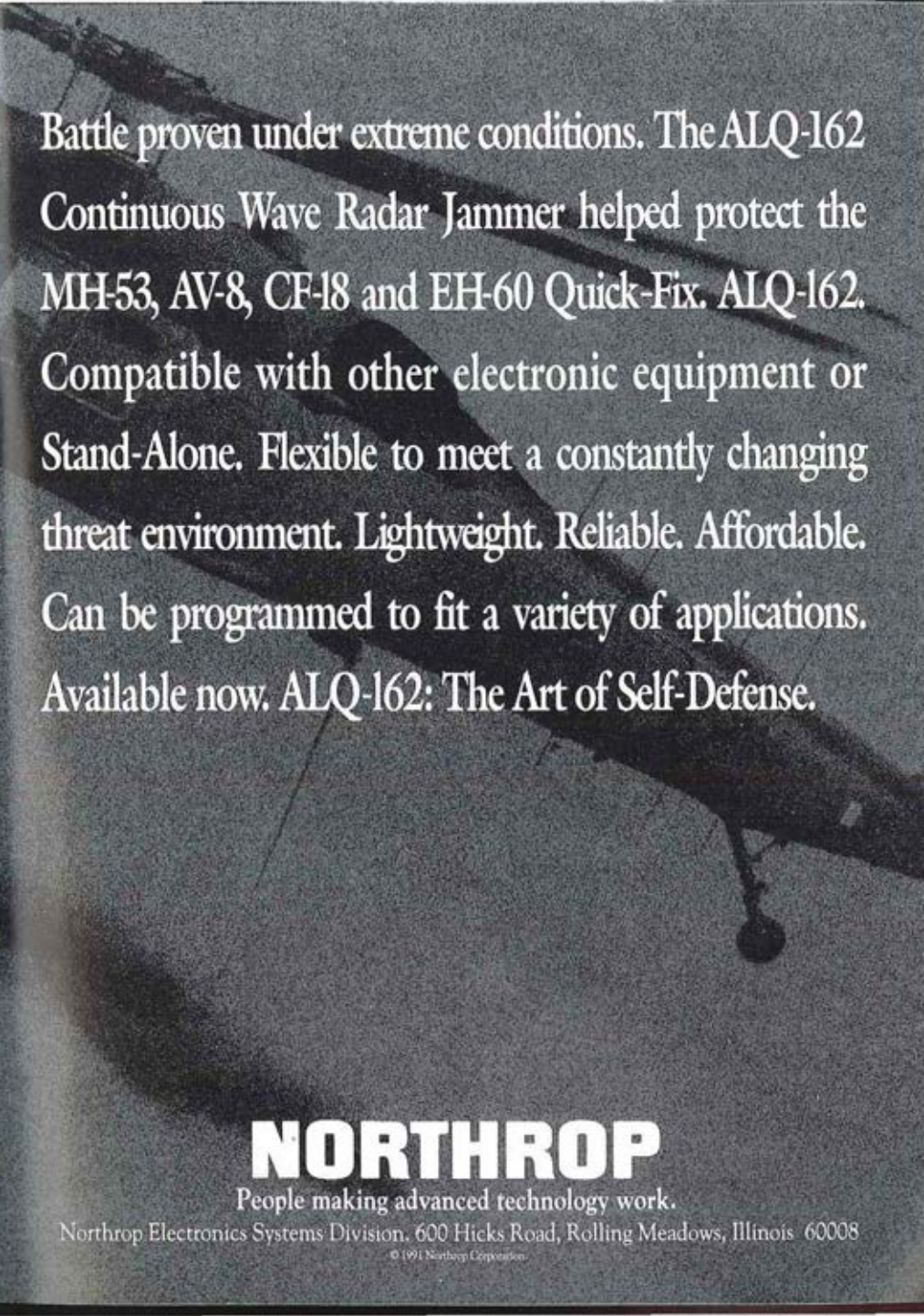
their ASE was capable of doing, and how to survive and be more combat effective as a result of it.

We accomplished two really worthwhile rapid reprogramming actions in SWA on ASE, one for our Scout Attack radar jammers, and the other for SEMA radar warning receivers. We set up a special repair activity for limited depot repairs of ASE where we had a direct exchange and quick turn-around capability designed for rapid field support.

I am proud of what we accomplished in SWA from an ASE perspective, even with all the problems we encountered. The bottom line result is that U.S. Army Aviation lost zero aircraft to Iraqi infrared and radar-directed missiles—and I can assure you the Iraqis tried! Postwar after action mission reports are still coming in, but so far there is evidence of at least 10 infrared missile firings involving eight Army aircraft. All 10 missiles missed their target, and there is evidence from Apache gun cameras that the Army's infrared jammer was having very significant effects on these in-flight missiles. These reports also indicate there were over 17 radar threat encounters involving 28 Army aircraft. Ten of these engagements were broken (break lock) before firing; there were seven confirmed firings (missiles and guns) but all 28 Army aircraft survived the engagements. There is no way of knowing how many engagements were prevented because of the signature reduction aspects utilized on Army aircraft. These demonstrative facts have opened the eyes of many Army aviators to the fact that ASE/EW is real world, combat fighting, mission essential equipment.

Now that DESERT STORM is over, we may not be operating on an emergency basis, but I can assure you we are still making an all-out push to overcome the shortfalls we experienced in SWA. You are going to hear more about Electronic Warfare Officers in every aviation unit. We are going to make this one happen. In addition, if there is anything I can do to help it, you are going to see a significant

(PM ASE — continued on page 53)



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ASE Logistics: The Road to Victory

By Donald L. Roth

When the word went out to the units that DESERT SHIELD had started, the Aircraft Survivability Equipment (ASE) Logistics Division implemented actions that significantly helped the U.S. Army in the victory of DESERT STORM. As units were mobilized, ASE

Logistics Action Teams were formed and dispatched to each unit to check out ASE systems and Special Test Equipment (STE) to first make sure it was operational and also to fill any ASE shortages prior to deployment. Within a moment's notice these Logistics Teams were sent to the units, along with ASE systems, spares, and Technical Manuals. These teams worked well into the night either locating the ASE systems in the Central Receiving Points (CRP) and getting them to the unit or helping with the actual installations of systems on the aircraft. These logisticians

gave up their Sunday clothes for blue jeans, T-shirts, and tennis shoes to get the aircraft outfitted with ASE prior to



Mr. Roth is Chief, Logistics Management Division, ASE PMO, St. Louis, MO.

deployment to Southwest Asia (SWA).

A Combined Support Effort

Support in SWA was another story. An ASE team was dispatched to SWA for the purpose of installing, troubleshooting, and repairing ASE systems and wiring on the aircraft. We soon learned that a mini supply/maintenance storage depot was badly needed so one was established at Dhahran. A loggie was sent over to SWA to be part of the ASE Team Forward. His function was to set up and maintain the mini depot. All our shipments from CONUS were intensively managed from contractor sites, transportation facilities (Dover), and SWA to monitor, push, shove, and also meet the aircraft and help with the unloading. Thanks to this great effort by the ASE "Loggies" and the ASE Team Forward, none of our systems were lost in the "black hole" of SWA. We did some

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unique and innovative things to get spare parts shipped and into the hands of the user. The supply system was clogged due to the massive effort to support troops. Most of our ASE shipments were classified and consequently moved through the supply system including Dover to SWA in 48 to 72 hours. With that in mind, we rerouted the ASE spare parts to the contractor and packaged these with the end items. This worked well. We also painted "ASE" in big bold letters with bright florescent paint so the ASE Team Forward could easily identify the pallets in SWA. Our ASE Team Forward met every aircraft that we previously identified to them by aircraft type, tail number, TCN, and arrival time. ASE received excellent support and cooperation from contractors, transportation, Defense Contract Management Command, depots, CECOM, AVSCOM, and AMC personnel. This was truly a combined team effort. We shipped over 3,100 ASE systems and pieces of STE. The ASE Loggies worked around the clock, seven days a week, to accomplish this feat.

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In addition to shipping spare parts, authorization was given to the ASE Team Forward to break down systems and issue parts to units to keep systems operational. An example was the ALQ-144 IR Jammer. We fielded an advanced IR Jammer to the Attack Helicopters (AH-64, AH-1F) and instead of shipping complete displaced systems back CONUS, we instructed ASE Forward to remove parts that were in high demand (e.g., window assembly) and keep them in the ASE depot for issue as required. CECOM also came on line and issued 30 days worth of critical spare parts for ASE systems. This proved to be an excellent move. These parts were quickly moved from the depot through the contractor's facility to SWA.

It became necessary during DESERT STORM to devise clever ways to "beat" the transportation problems within the supply system. ASE-Logistics was lucky enough to have classified shipments which no one in the transportation arena wanted to keep around for any length of time and also to have contractors who were willing to do some unique packaging for us. The key to these successful fieldings and shipments was knowledge of logistics (maintenance and supply) "how it works" and the classified aspects of the hardware so it rolled through the system unchallenged. GEN Schwarzkopf stated this was a logistics war. It was true.

The Payoff

The bottom line of the total logistics effort was that not a single Army aircraft was lost to heat seeking or radar guided weapons systems. ASE Logistics proved to be a force multiplier on the road to victory.

I was very lucky to have a Logistics Team with total dedication. I tip my hat to this magnificent team who utilized the total team concept to its fullest, in accomplishing this ASE Logistics mission to support the troops in SWA. ASE Logistics could not have accomplished this feat if it were not for the excellent cooperation among the many facets of the U.S. Government and private industry, who made things happen at the right time. Aircraft Survivability Equipment allowed the road to victory to be safer for the pilots and aircrews.

Have We Learned a Lesson?

by

Lt. Colonel Peter McGrew, USMC, and Major Craig Searfoss

Without a doubt, the electronic warfare systems used by the U.S. Army and its sister services to provide an extra "survivability edge" to its aircraft worked extremely well. The "black boxes" worked for the U.S. Army Team when they were needed—yet it

was more last-minute integration of assets rather than long term training, preparation, and utilization.

As the Army units spearheaded the blocking of any deep or expanded push by Iraqi forces from Kuwait, PM ASE was already geared up to analyze the threat through the use of installed EW equipment and to coordinate the expeditious production of "newer" EW protective equipment for our helicopters and fixed wing aircraft.

Extensive installation of EW assets was undertaken from August through October 1990 to units located within CONUS. In November 1990, PM ASE, in conjunction with directives

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from the Department of the Army (DA), decided to field the upgraded AN/ALQ-144A Infrared Countermeasure System, the AN/APR-39A(V)1 upgraded Radar Signal Detecting Set, a reprogrammed AN/APR-39(V)2, along with AN/ALQ-162 Radar Frequency Jammers. To assist in the installation of this EW equipment, PM ASE deployed two officers and a Senior NCO to coordinate fielding to prioritized units and to assess the overall ASE status in Southwest Asia (SWA). A review of units from the total EW perspective showed serious asset shortages, lack of threat knowledge, and a need for an "EW Czar" in-country to attempt to bring together

MAJ Searfoss is Assistant Product Manager, ASE PMO, St. Louis, MO.



"Had this adversary pushed harder, quicker, and sooner, the successful outcome of our campaign could have been drastically different."

the right people to quickly correct the weaknesses and enhance the strengths.

The PM ASE team (which at times numbered 20 personnel), in conjunction with expert contractor representatives from ITT, Lockheed-Sanders, Northrop and Daimler-Benz (now part of Litton), corrected several EW weaknesses by installing over 3,000 "black boxes" during DESERT SHIELD/DESERT STORM, repairing and/or testing EW equipment on approximately 1,000 aircraft in SWA (to include USAF F-15 and USMC KC-130s) and teaching EW classes to various aviation units located throughout SWA.

The PM ASE team was totally self-sufficient in SWA, arriving with our own total support package of tools, cables, connectors, test equipment, and spares. We would carry the equipment with us as we flew or drove to units, staying with them in their locations to perform repair or fielding as required. However, not all aviation units were visited due to time and priorities.

To complete this complex mission, we meticulously tracked our ASE from CONUS to Saudi Arabia, where a member of our team would meet the equipment and prepare it for movement forward. In an attempt to support rapidly deploying aviation units with much needed EW assets, it became necessary at times to split up our personnel into EW teams. Due to the expansive geographical area in which we operated, this worked best when units were located near one another. All of these endeavors, fielding, new equipment, repairing existing equipment, and conduct-

ing training assisted in eliminating many short term EW weaknesses but did we learn a lesson? And what about the long term?

Throughout DESERT STORM, many aviators visualized ASE as the ultimate protection bubble without understanding the capabilities of these systems against specific threats. A review of the data collected by system/aircraft/unit depicted the majority of ASE failures were attributable to poorly maintained "A" kits (or aircraft wiring/connectors). These could have been discovered by a scheduled inspection and dedicated use of AVUM/AVIM test equipment well in advance of deployment. ASE needs to lead the way in theaterizing EW libraries or push a more logistically supportable means of reprogramming to meet dynamic fleet operations. ASE also needs to spend more time with field units to hear real time negative (and positive) points in EW equipment. The above concerns which still exist after the Gulf War must be addressed and solved collectively within the aviation community before EW assets are involved in hostilities again.

To reflect upon DESERT STORM, we enjoyed an adversary who permitted us to build, correct, update, and train with our new EW "toys." Had this adversary pushed harder, quicker, and sooner, the successful outcome of our campaign could have been drastically different. The lesson to be learned is obvious—to train with our EW like we intend to fight with our EW. The next electronic war may not be as "easy" as this one.

The Changing Threat

By William R. Nicholson

In this era of reduced budgets and changing threat, providing Army Aviation with the means to survive on the future battlefield will be a significant battle for the Aircraft Survivability Equipment Project Manager (ASE PM). Even though Operation DESERT SHIELD/STORM,

Yugoslavian civil war, and the recent attempted coup d'etat in the Soviet Union have provided a tempering effect on the "peace is breaking all over" feelings prevalent in the early 1990s, the ever-shrinking defense budget means that there are a lot of decision makers ready to use the old "there isn't a threat" argument to help balance the budget.

I feel anyone who looks at the world situation objectively must conclude that the threat potential is great. However, if we look at the shift in our military strategy, as stated by former U.S. Army Chief of Staff GEN

Carl E. Vuono, from "a focus on containment of the Soviet Union and the Warsaw Pact to a focus on power projection", it is

obvious that both the threat and mission are changing. Unfortunately, it will take time for these changes to be recognized in fully approved threat and mission documentation. If we allow it, the uncertainties caused by these changing times will provide the excuse to eliminate the investment needed in ASE to insure that Army Aviation can fight and survive in this changing environment.

Unresolved Uncertainties

In the September 1990 edition of *Aircraft Survivability*, the article entitled "Survivability: Which Problem Do We Solve?" (published before the August 1990 hostilities), the ASE PM identified the need for a team effort between the user, developer, and intelligence communities to resolve these uncertainties. In that article, we were concerned that the problems facing ASE were changing due to the



Mr. Nicholson is Chief, Technical Management Division, ASE PMO, St. Louis, MO.

"... the success in DESERT STORM does not mean we are prepared for the future."

global threat resulting from the proliferation of sophisticated air defense weapons and the need to protect a highly mobile force anywhere in the world. If the threat was no longer primarily Soviet and the focus was no longer on Eastern Europe, then it would be easy to be caught unprepared.

Changes and Threats

There have been a lot of changes over the last year, but we are still faced with the same problems: what is the real threat today, and how best to provide survivability to Army Aviation in the face of the changing threat and mission?

You don't have to look hard to see the continued growth and diversity of potential threats resulting from worldwide proliferation of weapons systems. A look at three recent periodicals shows the Soviets marketing everything from SA-16s to SA-10s, along with the French marketing Matra Mistrals to at least 11 different countries. A quick review of *The Military Balance 1990-1991*, prepared by the International Institute for Strategic Studies, shows approximately 49 countries with SA-7, SA-14, or SA-16 Soviet missiles; 10 countries with the U.S. Stinger missile; 12 countries with the Swedish RBS-70 missile; and 22 countries with Swiss, Italian, or Swedish-built anti-aircraft gun systems.

Some may look at the results of DESERT SHIELD/STORM and say, "What problem? We seemed to have been prepared for that." I would be first to agree we had success during DESERT STORM. Some specific examples of this success are given in other articles contained in this month's issue. It is not possible to say exactly how many aircraft may have survived or how many lives were saved due to ASE, but I am confident that ASE made a significant

contribution to reducing aircraft losses and aviator casualties. I am also sure that if you were the pilot or copilot of one of the aircraft unsuccessfully engaged by an IR missile, for example, you may feel the words "significant contribution" aren't quite strong enough.

However, the success in DESERT STORM does not mean we are prepared for the future. There were many other factors that contributed to the relatively low losses. Some will argue that Iraqi troops didn't challenge us because of lack of resolve as well as old and poorly maintained equipment. We certainly can't count on this in future conflicts. More pertinent is the fact that the Iraqi air defenses consisted mainly of Soviet equipment, the same kind of Soviet equipment we had been expecting to encounter on the European battlefield. We have been planning and preparing to face this equipment for at least 10 years. As was very correctly pointed out in the September 1990 issue of *Aircraft Survivability*, it is a good five to ten years after the start of development until a complex weapon system is out in the field. Many of you might agree with me in believing this is perhaps somewhat optimistic. It also takes the same amount of time for development of the countermeasure once the weapon system is identified as a threat.

We should be proud of our success in DESERT STORM, but we must also recognize the major battle ahead, the battle of the "Development Wars". We must prepare ourselves for the battle by firmly defining the mission of Army Aviation and the threat in future conflicts. If we don't win this battle and continue our investment in aircraft survivability, we will not be prepared for the next conflict.

IIII

Evaluation of the ASE Trainer (ASET) II

By Elizabeth Plumb, Ed. D.

A rmy aviation's success in DESERT STORM was due, in part, to the aviator's knowledge and use of Aircraft Survivability Equipment (ASE). This knowledge was gained through a comprehensive training strategy developed jointly by the Project Manager for

Aircraft Survivability Equipment (PM ASE) and the Army Aviation Center (USAAVNC). Part of this training strategy is the ASET II training program.

The ASET II training program is a desktop trainer that teaches the individual aviator threat limitations and capabilities, ASE employment and capabilities, tactical maneuvers and countermeasures for the scout, attack, cargo, utility, and special electronic aircraft. The ASET II uses the Electronic Information Delivery System (EIDS) as its delivery device.

The ASET II classified courseware is designed in three modes—tutorial, game, and management. The highly interactive courseware allows the

Dr. Plumb is an Educational Specialist with the Directorate of TRADOC, Ft. Rucker, AL.

aviator to learn all aspects of threat identification, threat evaluation and ASE operation, and apply them practically in tactical situations.

PM ASE has recently fielded a limited number of evaluation courseware. This courseware was designed for DESERT STORM and contains a special section on Iraqi threat systems. CAS, Inc., of Huntsville, AL, is currently under contract to evaluate both the DESERT STORM program and the standard ASET program, scheduled for worldwide fielding in October 1991. ASET II software and the EIDS hardware are being evaluated by collecting data from the aviation community. Figure 1 shows the methodology being used in the ASET II evaluation.

The ASET II tutorial mode will be evaluated for correctness, completeness, quality, validity, and pertinency. The aviators will be asked to determine whether training



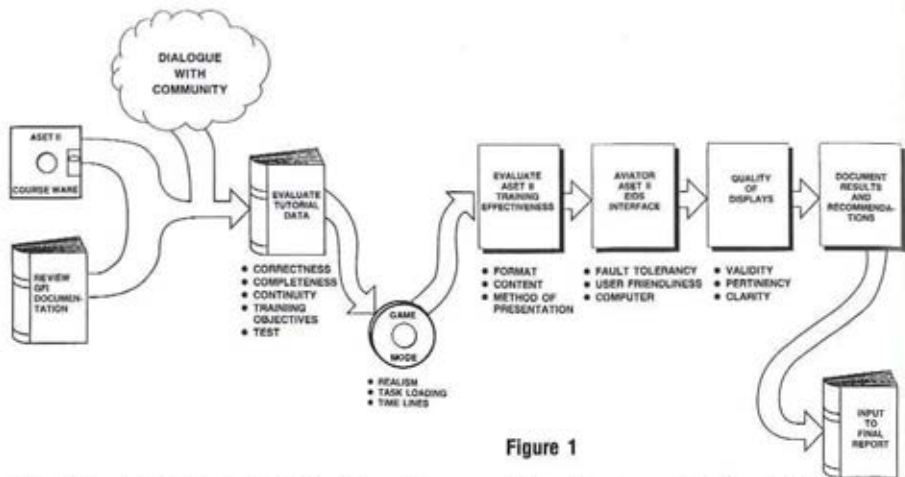


Figure 1

objectives are realistic and obtainable and if the lesson tests are accurate and complete in examining the aviator's ASE and threat knowledge. Data collected from the evaluation of the tutorial mode will be used to update the ASET II program in FY92.

The ASET II gaming mode places the aviator in a combat mission scenario that reinforces decision-making skills. Evaluation of this mode will determine the realism of the combat missions and accuracy of weapon time lines. The number of tasks and task loading during the combat scenario will also be investigated. Data from the game mode evaluation will be used to update mission scenarios so that the realistic low-, mid-, and high-risk mission scenarios are presented.

The objective of ASET II is to present ASE training to the individual aviator. CAS, Inc. is planning to investigate the total training effectiveness of the ASET II system. The total program format, content, and method of presentation will be investigated to determine if the objective is met.

The EIDS system is a relatively new training media. The EIDS computer system is designed for user friendliness and limited instruction is needed to operate this system. During the ASET II evaluation, the EIDS delivery system will be evaluated for user friendliness to determine whether additional

instructions are needed and if the EIDS authoring system presents quality displays. As with most electronic systems, EIDS may need occasional repairs. During the ASET II evaluation, fault tolerance will be determined and possible EIDS hardware improvements identified.

The evaluation of ASET II will result in a comprehensive training program that will equip the aviator with the ASE knowledge to be successful on the future battlefield.

The PM ASE and CAS, Inc. have established toll free user hot lines on which all comments are recorded. The purpose of these lines is to answer user questions about the ASET II courseware, the EIDS hardware and the ASET II distribution, and identify trends. The hot line operates from 0800-1600, Central Time, five days a week. The ASET II Hot-Line numbers are:

CONUS (including Hawaii and Alaska)—1-800-545-ASET
Panama—1-800-111-0420
S. Korea—008-1-800-901-8289
Germany—0130-81-0439

Twenty-five special CALL ME cards for Saudi Arabia have been issued. For a CALL ME number, call DSN 693-1477.

Written comments concerning the ASET II program should be sent to: Commander, USAAVNC, ATTN: ATZQ-TDS-AS, Ft. Rucker, AL 36362-5163.

||||

OPERATIONS:

U.S. PRECISION HELICOPTER TEAM

BY CAPTAIN T. COWART

FORT RUCKER, AL — The United States Precision Helicopter Team (USPHT) is gearing up to defend its title as World Champion. Planning and preparations are underway for the 1992 World Precision Helicopter Championship, which will be held in England in September 1992.

The World Helicopter Championship is organized by the Federation Aeronautique Internationale (FAI) Helicopter Commission, and the USPHT operates under the auspices of the Helicopter Club of America (HCA). The HCA conducts the U.S. National Championships under the Rules for Rotorcraft established by the FAI.

Previous World Precision Helicopter Championships were conducted in Poland (1981), England (1986), and in France (1989). The USPHT has claimed the World Championship title in each of the last three competitions, and it is expected that the 1992 championship will once again be hotly contested.

Thirty-eight crews representing six countries competed in the 1989 event—the Soviet Union, France, Great Britain, West Germany, Ireland, and the United States. In previous competitions, each country has been limited to five crews competing for the team title and two additional crews allowed to compete for the individual title.

The championship events conducted in France in 1989 were the timed arrival with load drop-off event, the precision flying event, the long navigation event, and the slalom and skill event. Each of the four events was scored with a maximum of 200 points, with points being deducted for even the slightest deviations. A perfect score of 800 for the four events was possible.

The eventual winners of the World Champion title in 1989, CW3s Jon Iseminger and Rudy Hobbs, scored an amazing 796 points. Less than 30 points separated the winners from those finishing in seventh place. The top seven places went to the American contingent, comprised of U.S. Army and U.S. Army National Guard aviators.

Following the championship, members of the 1989 team were invited to Washington, D.C. for an office visit with the Secretary of the Army, Michael P.W. Stone. Later, GEN Carl E. Vuono, Army Chief of Staff, accompanied team members to the Oval Office for a visit with President George Bush.

Prior to the 1989 World Championships, a lengthy team selection process occurred, and this process will be repeated in the selection of the 1992 USPHT. The HCA will conduct the National

CPT Cowart is with the ARNG Multi Media Branch, Ft. Rucker, AL.

Helicopter Championships in Las Vegas, NV, in March 1992. The competition will consist of three events and will determine a champion in each of three categories—Military, Commercial, and Private.

The initial briefing for the National Championship is scheduled for Friday, 20 March, and the competition will be held 21-22 March with 23 March as the make-up day in event of inclement weather. The awards banquet is scheduled for the evening of 24 March 1992.

Subsequent to the National Helicopter Championship, the fly-offs for the USPHT will be held at Ft. Rucker, AL in April 1992. These fly-offs will be open to members of the military aviation community, as well as civilian and private operators who qualified during the National Helicopter Championship. The fly-off events will be the same as those to be flown in the 1992 World Championship in England.

The members selected for the 1992 USPHT will begin an intense training program May 1992 at Ft. Rucker. The program culminates with a final phase of training and acclimatization in England just prior to the World Helicopter Championship.

Announcements concerning all competitions and team try-outs will be made in aviation publications during the next several months and throughout the military aviation communities via Memorandums of Instruction. Interested personnel and organization points of contact can call the USPHT headquarters for more information at DSN 558-3037/3038 or Commercial (205) 255-3037/3038.

IIII

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HARDWARE:

APACHE: ON THE MOVE AGAIN

BY COLONEL GARY D. JOHNSON

ST. LOUIS, MO—After a somewhat brief and satisfying interlude to the DESERT SHIELD/STORM arena, I have returned to the National Maintenance Point to again become involved with ongoing events concerning the AH-64A Apache helicopter. I believe this brief article will give readers an overview of our continuing efforts to optimize depot level maintenance support for the AH-64.

This NMP has been in the forefront of planning to set up depot level maintenance capability at various Army Organic Depots for the AH-64 airframe and most of its related components. Presently, a majority of the depot maintenance on the Apache airframe and other components is done by prime manufacturers. This is not an uncommon practice and is beneficial in that the Army has time to develop organic capability while maintaining the new and growing Apache fleet "operationally ready."

Shortly after an AVSCOM study was completed on the feasibility of transitioning the Apache from contract to organic depot maintenance facilities, the Secretary of the Army made the decision to accelerate the transition process. Our Target Date to complete the transition to depot facilities is September 1994.

Obviously, an Army depot does not start overhauling a new high

tech component such as a Main Rotor blade without extensive planning and preparation. Listed here are just some of the major considerations:

- A Depot Maintenance Work Requirement (DMWR) containing all the information needed on how to overhaul the component is essential to the depot. This manual will include all testing requirements, measurements, and quality standards for each work process in the manual. For example—over 52 DMWRs on the Apache helicopter have been prepared, and an additional 16 are required.

- A wide range of technical specifications referenced in the DMWRs are also required by the depot.

- Depot Maintenance Plant Equipment (DMPE) and Special Tools required by the depot must be identified, obtained, installed, and tested. When possible, DMPE already at the depot will be modified to do a new job.

- Technical training may be necessary for depot personnel.



COL Johnson
is Director of
Maintenance,
U.S. Army
Aviation
Systems
Command,
St. Louis, MO.

- Last but not least are repair parts. Parts must be available to the depot in the proper range whether the component requires limited repair or major overhaul.

These elements must come together at the right time, if the depot is to be properly prepared for repair and overhaul of a new or different component. Before a component is scheduled for repair at a depot, a "Pilot Overhaul" of the component will be conducted. When "Pilot Overhaul" is completed, we will know whether all elements are present and working at the depot. If not, any problems found will be corrected.

No single Army depot can repair all systems or components used on the Apache. Depots are assigned specific types of components to repair. These assignments for the AH-64A generally follow this pattern: airframe and related components—Corpus Christi Army Depot, TX; Avionics and related systems—Sacramento Army Depot, CA; Weapons and related items—Reconnaissance and Armaments River Army Depot, TX.

We rely heavily on a comparatively new computer-aided system known as the "Depot Automated Pilot Overhaul Program" (DAPOP) to assist in managing this transitioning planning. By combining selected data from other computer systems at AVSCOM, along with our hand-entered data, management decisions based on reliable information have been made easier.

Total Quality Management (TQM) is the impetus for rapid development and enhancement of depot level maintenance support capability for the AH-64A Apache helicopter within the organic Army Depot system. ■■■■

OPERATIONS:

FAST TRACK AT THE 224TH MI BN

BY LIEUTENANT COLONEL (P) RODNEY P. MILLER

HUNTER ARMY AIRFIELD, GA

— Greetings from the 224th Military Intelligence Battalion (Aerial Exploitation). Our mission is to provide reconnaissance and surveillance support to any of the XVIII Airborne Corps contingency missions and to perform directed missions in support of national level agencies.

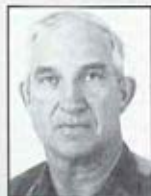
In May this year, the 224th conducted a formal ceremony to dedicate the only existing OV-1E model aircraft to a permanent static display. The commemorative plaque dedicates the aircraft to all the pilots, technical observers, crew chiefs, maintainers, and operations personnel within the special electronic mission aircraft community. This aircraft, tail number 920, was one of only two prototype aircraft built under a DoD Multi-Stage Improvement Program (MSIP). The aircraft featured an all-glass cockpit and numerous improvements over the existing D model OV-1. The MSIP was terminated and, as a result, only one aircraft remained. This was given to the 224th for our permanent display.

In August of this year, the 224th deployed five RV-1D Mohawks in support of Operation DESERT SHIELD. Not only did our guys do a great job during DESERT SHIELD/STORM, their 16,000 mile round trip self

deployment to Southwest Asia was a major accomplishment for the aging fleet. It was a real tribute to the maintainers and AVSCOM to keep the aircraft flying.

One scary incident did occur on the initial self deployment. An RV-1 aircraft flown by CW4 John Fowler and Technical Observer SPC Brian Doudna had a major malfunction enroute to Keflavik, Iceland. While at 13,000 feet, the elevator trim tab tore off in flight, which caused the aircraft to pitch up and flip into an inverted flat spin. At approximately 8,500 feet, after several revolutions, CW4 Fowler was able to regain control of the aircraft and fly it into Keflavik. For his superior airmanship CW4 Fowler was awarded the Broken Wing Award from the U.S. Army Safety Center at Ft. Rucker, AL. SPC Doudna received an ARCOM for his cool and expert crew support function.

In February this year, the 224th was tasked to deploy to the Central Caribbean to conduct a JCS-directed mission in support of Joint Task Force Four (JTF-4).



COL Miller was Commander, 224th Military Intelligence Battalion (AE), Hunter Army Airfield, GA, when this article was written.

JTF-4 is one of three Joint Task Forces that was established by the Department of Defense to coordinate military operations against illicit drug traffic. This mission provides excellent training for my soldiers, and it allows us to make significant contributions to this national priority. This operation also hones skills necessary for the 224th to deploy and support any XVIII Airborne Corps contingency operation.

Future

The future also looks bright for the 224th in terms of new equipment. In July this year, we will receive a production version of the Guardrail V Remote Relay System. This system will allow us to forward deploy aircraft and minimal ground support equipment anywhere in the world and communicate back to our integrated processing facility located at Hunter Army Airfield.

In 1993, we will receive the latest version of the Guardrail Common Sensor system. This system consists of the latest innovation of Ground Processing Equipment and the all new RC-12K aircraft. In June, we will receive a Forward Looking Infrared (FLIR) system onboard the OV-1D aircraft. This program will support an evaluation of the system and its ability to support JTF-4 type missions. In the 1996 time frame, the 224th will receive a company of unattended air vehicles (UAVs). These systems worked well during DESERT SHIELD/STORM.

In summary, our future looks bright and we look forward to continuing our fast-paced support to XVIII Airborne Corps and our national level mission.

||||

OPERATIONS:

25TH ID(L): SAFETY IN THE PACIFIC

BY COLONEL JOHN C. MAHER

SCHOFIELD BARRACKS, HI

— The Aviation Brigade within the 25th Infantry Division (Light) is based on Wheeler Air Force Base adjacent to Schofield Barracks on the Island of Oahu. Activated on 15 October 1985, the Aviation Brigade celebrated its sixth anniversary as the fourth maneuver Brigade of the 25th Infantry Division (Light) this past October. The significant aspect of this event was that the Brigade performed a myriad of missions and off-island deployments and amassed over 100,000 flight hours without experiencing a Class A, B, or C accident over this period of time. This is a phenomenal record. A tremendous amount of credit is extended to the soldiers and senior leaders who served with the Brigade since its activation.

Two major contributing factors toward achieving this outstanding record were the superior command climate and safety consciousness displayed by the different commanders over the past six years. Special thanks and our sincere appreciation are extended to BG Ronald E. Adams, 1985-1987 and COL Theodore A. Duck, 1987-1989. Congratulations on a job well done.

The Aviation Brigade currently consists of a Headquarters and Headquarters Company (HHC); the 1st Battalion, 25th Aviation

Regiment (Attack); the 4th Battalion, 25th Aviation Regiment (Assault); and the 5th Squadron, 9th Cavalry. In addition, the Aviation Brigade has a Fixed Wing Flight Detachment which flies in support of the United States Army Pacific Command Group. The Aviation assets within the Brigade consist of 27 UH-1s; 15 UH-60s; 3 EH-60s; 26 AH-1Ps; 28 OH-58s; and a C-12 for a total of 100 aircraft. The Brigade is authorized 913 personnel and has 915 assigned.

Over the past three years, the Brigade has averaged an annual flying hour program in excess of 17,000 hours. These hours are devoted to the normal aviator training requirements and the numerous missions associated with supporting a Light Infantry Division. These missions include such things as Air Assaults, Air Movements, Rappelling, Stability Operations (STABO), sling loads, and paradrop. In addition to providing support to the aforementioned missions, the Attack and Cavalry units also conduct



COL Maher was Commander, Aviation Brigade, 25th ID(L), Schofield Barracks, HI, when this article was written.

numerous gunnery exercises of the big island of Hawaii.

The Brigade also provides mission support to the Drug Eradication Program conducted by the Drug Enforcement Administration (DEA), Special Patrol Insertion and Extraction System (SPIES) and Fire Fighting Operations. The Fire Fighting mission is conducted during both day and night conditions and is one of the most demanding operations in which we participate. During night operations, the pilots utilize Night Vision Goggles to fly the UH-60 helicopters along a valley floor and up the sides of valley walls while dropping water from a bucket slung beneath the aircraft. This is a high risk and demanding mission that our aviators accomplish with skill and professionalism. The ability of the Brigade to accomplish this mission enables the Division to use only the best of Oahu's few ranges for night live fire training.

Due to the congestion and limited training areas available on the island of Oahu, the Brigade is routinely required to conduct its training on the island of Hawaii where we operate at altitudes from sea level to 8,000 feet. The base airfield is located at 6,180 feet and is nestled between two inactive volcanoes. The flight envelopes for the different aircraft are constrained and require very delicate and precise flight techniques to operate safely. Our extensive training in high altitude operations conducted during RL2 progression sets the standards by which our aviators operate in these conditions. Probably the most interesting aspect of being stationed on the island (25th ID(L)) — cont. on p.53

of Oahu is that every training event results in a major deployment utilizing both air and sea assets to move equipment and personnel to and from the training area on the island of Hawaii.

Our missions have taken us throughout the Pacific Basin and further. We have deployed troops and equipment to such places as Korea for TEAM SPIRIT, Japan for ORIENT SHIELD, to Thailand for COBRA GOLD, and Australia for Operation KANGAROO. We have sent Aviation Task Forces to such places as the Philippines, Hong Kong, Singapore, Arkansas, and most recently, Bangladesh. These numerous and varied deployments coupled with the aforementioned deployments to the island of Hawaii enable this Division and the Aviation Brigade to maintain the capability for worldwide deployment at any time.

Once you consider the mission and capability of the Aviation Brigade and the 25th Infantry Division, the comments made in the opening paragraph become very important. To successfully complete the numerous, complex, and varied missions of the Brigade and the Division over the past six years and to do so without experiencing a Class A, B, or C accident is truly remarkable.

Command Climate

The success story evolves around solid aviator training programs and a *safety conscious command climate*.

Safety is always a part of the leader's mission planning and is constantly addressed. Everyone is involved and has a voice in what is taking place; in effect, everyone is a Safety Officer.

The Battalion and Company commanders are required to produce written risk assessments prior to conducting battalion or company size training.

In addition, each Pilot-In-Command is required to produce a written assessment for each mission flown. The chain of command then reviews these risk assessments and looks for ways to reduce the risk from high to medium, or medium to low. Our intent is to accomplish the mission, but to do it safely. The tools which we use to test the waters within the Brigade are similar to all other units. Safety Meetings, Safety Councils, Night Vision Goggle and Aviation Life Support Steering Committees, Safety Stand-down days, Awards Programs, Surveys, and Inspections are all utilized; however, the success of these programs revolves around the fact that the Command Group listens and implements suggestions and recommendations provided by the forums.

The Wings of Lighting Brigade has deployed throughout the Pacific Basin and done it safely. Our personnel and pilots have developed a sixth sense called "THINK SAFETY" and it has undoubtedly contributed to the overall mission readiness of this Brigade and the 25th Infantry Division (Light). ■■■■

Comanche

(continued from page 25)

Commanders in the field who have provided operational aviators and maintainers in support of the development efforts to date. Additionally, we acknow-

ledge those who have agreed to provide this expertise during DEMVAL Prototype and Full Scale Development. We recognize the sacrifice made by losing key personnel for one to two weeks at a time, but your unwavering support will leave a legacy for the aviation professionals of the future—an integrated weapon system which is matched to the needs and abilities of our soldiers to enhance their warfighting capability. ■■■■

ASE PM

(continued from page 36)

increase in the attention that Army aircraft installation kits will receive. This aspect has got to be addressed by aviation units and must receive as much attention as the basic mission equipment packages receive.

Lastly, I can assure you that both schoolhouse training and unit aircrew training will receive significantly more attention in the future. I have a new officer, CPT Mario Garcia, who is just reporting in and he will be one of my direct interfaces with both schoolhouse and aviation units in the ASE/EW training area.

We did not experience problems in SWA not only because of the extreme environment but because of the maintenance/training aspects that I discussed above.

All in all, when the equipment was maintained and properly utilized, it proved very effective as evidenced by the track record mentioned earlier—zero aircraft lost to Iraqi infrared and radar-directed missile threats. ■■■■

The 1991 Aviation Warrant Officer Directory*

Sample

LAST NAME, First Name, M.I., (Rank)
(Initial Membership Year) (Nickname)
Residence Address. Dy: Duty Phone.
Res: Residence Phone. S: Spouse's
Name. Dy: Duty Assignment. Rtg: Pilot
Rating. Qual: Qualification. Time: Total
Hours Flight Time. Cbt: Total Hours
Combat Time. DFC. AM/00.

Pilot Ratings

MAA: Master Army Aviator
SAA: Senior Army Aviator
AA: Army Aviator
IFE: Instrument Flight Examiner
SIP: Standardization Instructor Pilot
IP: Instructor Pilot
TP: Test Pilot

Miscellaneous Information

DFC: Distinguished Flying Cross
AM/00: Number of Air Medals.

* A professional-personal roster of Aviation Warrant Officer AAAA members. Only listings returned to the AAAA National Office on or before 24 August 1991 are listed.

Hi-Timers

CW3 Luis Silvestre.....	16,000
MW4 Warren D. George.....	12,958
CW4 Harry R. Stevenson.....	12,300
CW4 Ben A. Van Etten, Jr.....	12,100
CW4 Paul A. Herrick.....	11,650
CW3 Vincent A. Balocchetti, Jr.....	11,200
CW4 Archie A. Ahl.....	10,300
MW4 Gregory A. Waltz.....	10,100
MW4 Stanley H. Graves.....	10,075
CW4 Josef W.H. Frey.....	10,000
CW4(P) Charles M. Barr, II.....	9,600
CW4 Richard P. Fegreus, Jr.....	9,400
MW4 Stephen L. Davidson.....	9,000
CW4 Daniel N. Foe.....	8,950
CW4 Robert E. Yates.....	8,801
CW4 Wayne S. Guffy, Jr.....	8,617
CW4 Richard E. Campbell.....	8,600
CW4 Marty L. Anderson.....	8,500
CW4 Dempsey L. Birmingham.....	8,200
CW4 Larry R. Pucci.....	8,000
CW4 John A. Shoemaker.....	8,000
CW4 Cornelius McMillan.....	7,860
MW4 David C. Beishline.....	7,842
CW4 William H. Whitehill, Sr.....	7,800
CW4 Richard W. Burbank.....	7,600
CW2 Stephan J. Buchanan.....	7,500
MW4 James R. Kale.....	7,500
CW4 Tyrus R. Carr.....	7,400
MW4 Michael J. Hutson.....	7,400
CW3 Steven P. Houston.....	7,300
MW4 Thomas E. Ault.....	7,200
CW4 James R. Bandy, III.....	7,200
CW4 Donald R. Harlor.....	7,200
CW4 Dennis A. Reed.....	7,200
CW4 Robert J. Schurr.....	7,200
CW4 Richard L. Voigt.....	7,200
CW4 Brent H. Gourley.....	7,100
CW4 Michael Johnson.....	7,100
CW4 Robert E. McClellan, Jr.....	7,100
CW4 Joseph Perez.....	7,005
CW4 Robert J. Hawkins.....	7,000
MW4 Robert D. Hill.....	7,000
MW4 Larry Lee.....	7,000
CW4 Bruce L. Singer.....	7,000
CW4 Robert L. Smith.....	7,000
CW4 Larry D. Walters.....	7,000
CW3 John S. Mollenberry.....	6,930
CW4 James A. Rohrer.....	6,850
CW4 Dennis A. Hegland.....	6,800
CW4 Ernest C. Record.....	6,800
MW4 Bryon M. Wilkinson.....	6,784
CW4 Craig V. Randall.....	6,755
CW4 Timothy J. Vreeman.....	6,670
CW4 Richard A. Skaaden.....	6,660

Aberg, John H., (CW3(P)) (M80) (Jack) 11400 White Bluff Road, Apt. 62, Savannah, GA 31419-1544. Dy: (912) 352-6105. S: Margie. Dy: A Co, 3/160th SOAR(A), HAA, Rtg: SAA. RW Qual. Time: 3,665 Hrs./Cbt 139 AM/3.

Adair, Michael S., (CW3) (M86) (Mike) C Company, 1-2 Aviation Regiment, APO San Francisco 96257-0480. Dy: 732-6156. S: Jean. Dy: AH-1F IP. Rtg: SAA. RW Qual. Time: 1,485 Hrs.

Adams, Anthony W., (CW4) (M86) (Tony) HSC, 1st Aviation Regt., Box 1832, APO New York 09250. Dy: 467-2854. S: 098-189-304. S: Connie. Dy: BN Standardization Officer, Katterbach, Germany. Rtg: MAA IFE IP. RW Qual. Time: 6,100 Hrs./Cbt 1,335 DFC1, AM/31.

Adams, Doug A., (WO1) (M90) 4635 West Gore, Apt. 67, Lawton, OK 73505. Dy: (405) 351-4044. Res: (405) 357-9280. Dy: CH-47 Pilot, Fort Sill. RW Qual. PW Qual. Time: 320 Hrs.

Adams, Gerald E., (WO1) (M90) 14 Gibson, Fort Rucker, AL 36362. Dy: (205) 255-6591. Res: (205) 598-1904. Dy: B1-145th. Rtg: AA. RW Qual. Time: 1,500 Hrs.

Adaway, John W. III., (CW2) (M84) A Company, 2d MI Bn., Box 852, APO New York 09359. S: Joan. Dy: OV-1 Instructor Pilot, Stuttgart AAF. Rtg: SAA IP. RW Qual. PW Qual. Time: 1,950 Hrs./Cbt 60

Adcock, John S., (WOC) (M91) (Stan) 13 B Apache Drive, Enterprise, AL 36330. Dy: (205) 255-4006. Res: (205) 347-4543. S: Donna. Dy: Flight Student, C71-145. RW Qual. Time: 120 Hrs.

Adkins, Thomas L., (CW4) (M88) (Tom) 307-A Sudut Street, Wahiawa, HI 96786. Dy: (808) 656-1382. Res: (808) 624-9577. S: Diane. Dy: SPIE Avn Bde Standardization Officer, HHC, Avn Bde, 25 D(UL). Rtg: AA IFE SIP. RW Qual. Time: 5,000 Hrs./Cbt 25 AM/2.

Adolphson, John L., (CW4) (M77) C Company, 4/501 Aviation, APO San Francisco 96208. Res: (206) 588-8429. S: Linda. Dy: Standards Officer, 4th Bn, 501st Avn, Camp Page, Korea. Rtg: MAA SIP. RW Qual. Time: 4,200 Hrs.

Aerdelman, Mark W., (CW3) (M82) G Company, 1st Avn. Regt., Box 2448, APO New York 09250. Dy: 467-2689. Res: 098-177-249. S: Dagmar. Dy: IP (DH58D). G Co, 1st Avn Regt, Task Force Phoenix, Rtg: SAA IP. RW Qual. Time: 2,500 Hrs./Cbt 92 AM/1, IV.

Ahl, Archie L., (CW4) (M74) 114 Haman Lane West, Tacoma, WA 98467. Dy: (206) 967-3918. Res: (206) 581-2792. S: Marianne. Dy: Cdr, PL Lewis Flight Detachment, Rtg: MAA IFE SIP. RW Qual. Time: 10,300 Hrs./Cbt 1,950 DFC2, AM/43.

Albers, John E., (CW3) (M86) 927 Poppy Drive, Clarksville, TN 37042. Dy: (607) 353-6931. Res: (907) 356-1877. S: Terri. Dy: 7th Bn 101st, Fort Campbell. Rtg: AA IP. Time: 2,600 Hrs.

Alexander, Darrel, (CW4) (M86) PSC 995, APO Miami 34001. Dy: 313-6556. Res: 007-638-471. Dy: RW Cdr, Panama, B1-228 Avn. Rtg: MAA MTP. RW Qual. PW Qual. Time: 3,000 Hrs.

Alexander, Paul J., (CW2) (M89) (Alex) 10014 White Bluff Road, No. 604, Savannah, GA 31406. Dy: (912) 352-5256. Res: (912) 927-8950. Dy: B3-160th SOAR, CH-47 Pilot, HAA, A. Rtg: AA. RW Qual. Time: 700 Hrs./Cbt 51 AM/1.

Allard, Michael P., (CW2) (M83) 604 Melbourne Drive, Enterprise, AL 36330. Dy: (205) 255-

Aviation Warrant Officer Directory

2226. Res: (205) 393-6004. S: Vicky. Dy: B Co, 1-145th Avn. Rgt., Ft. Rucker. Rtg: SAA IP. RW Qual. Time: 1,500 Hrs.

Allen, Carlson E., (CW4) (M83) 390 Sycamore Lane, Cheshire, CT 06410-2022. Dy: (203) 386-7295. Res: (203) 250-7175. S: Peggy. Dy: Army Program Mgr Representative, DPHO Sikorsky Act. Rtg: MAA SIP MTP. RW Qual. Time: 4,900 Hrs./Cbt 1,000 AM/22.

Allen, Nathan E., (CW2) (M88) (Jay Bird) C Company, 5/501 Aviation, APO San Francisco 96397. Dy: 011-82-371-82498. Res: (206) 964-5736. S: Cynthia K. Dy: Cobra Pilot, C Co, 5/501 Camp Eagle, Korea. Rtg: AA. RW Qual. PW Qual.

Allison, Rodney C., (CW3) (M89) (Rod) 942 RM Road, Fayetteville, NC 28314-5256. Res: (919) 487-5455. S: Cindy. Dy: Student, Fort Benjamin Harrison. Rtg: IP MTFE. RW Qual. Time: 3,000 Hrs./Cbt 55 AM/2.

Alsbaugh, John T. Jr., (WO1) (M89) A Co., 4-159th Avn. Regt., Box 854, APO New York 09359. Dy: 0711-729-4178. Res: 0711-348-1109. S: Christine. Dy: UH-1 Pilot, 4/159th Avn. Regt, Stuttgart, Ger. RW Qual. Time: 500 Hrs.

Americo, Louis C., (CW3) (M89) 127 East Pondella Drive, Enterprise, AL 36330. Dy: (205) 255-2442. Res: (205) 393-4316. S: Helga. Dy: UH-60 SIPIFE DES. Rtg: IFE SIP IP. RW Qual. Time: 4,000 Hrs.

Ammon, Mark W., (CW4) (M86) 311 Cedar Drive, Enterprise, AL 36330. Dy: (314) 263-1810. Res: (205) 347-3111. S: June. Dy: PM-Corniche, St. Louis. Rtg: MAA SIP. RW Qual. Time: 3,200 Hrs.

Amold, Richard G., (CW4) (M84) (Rick) 414 Gordon Road, Wahiawa, HI 96786. Dy: (808) 656-2622. Res: (808) 625-7191. S: Marilee. Dy: Avn Safety Off, C Co, 1-25 Avn Bn. Rtg: MAA. RW Qual. Time: 2,400 Hrs. Past VP, Wings Of The Marine Chapter.

Anders, Donald G., (CW4) (M89) G Company, 3rd Avn. Regt., APO New York 09182. S: Frances. Dy: EH-60 Quick Fox Aviator. Rtg: IP. RW Qual. Time: 4,500 Hrs.

Anderson, Carl F., (CW3) (M91) HHC 4/229 AAHR, Box 924, APO New York 09140. Dy: 011-49-09841-83-621/758. Res: 011-49-09841-7437. S: Elizabeth. Dy: UH-60 SIPIFE. Rtg: SAA IFE SIP. RW Qual. Time: 3,200 Hrs./Cbt 40 AM/1.

Anderson, Marty L., (CW4) (M91) (Andy) U.S. Army Avn Det., P.O. Box 41, APO San Francisco 96343-0084. S: Maxine. Dy: Flight Instructor, Camp Zama, Japan. Rtg: IFE SIP IP MTP. RW Qual. PW Qual. Time: 8,500 Hrs./Cbt 625 DFC1, AM/15.

Andrews, Stephen L., (WO1) (M90) 2nd Avn Rgt, 1st Bn, C Co, Unit, APO APO 96257-0480. Dy: 732-61561. Dy: 2nd Avn Regt, 1st Bn, C Co, Camp LaGuardia, Korea. RW Qual. Time: 195 Hrs.

Anglesey, Terry S., (CW3) (M82) 1523 Jeffries, Killeen, TX 76543-5176. Dy: (817) 288-1009.

Res: (817) 699-3427. S: Deann. Dy: D Co, 227th Avn Regt, 1st Cav Regt, Fort Hood. Rtg: AA IP IFE SIP. RW Qual. PW Qual. Time: 3,000 Hrs./Cbt 1,100 AM/5.

Archer, David W., (WO1) (M89) 8028A Jefferson County Dr, Fort Drum, New York 13603. Dy: (315) 772-6068. Res: (315) 773-2831. S: Rosanne. Dy: B Co, 3-25 ABN UH-60 Pilot, Fort Drum. RW Qual. Time: 300 Hrs.

Arnold, David L., (CW2) (M84) (Dave) 612 Paddy Run Road, Clarksville, TN 37042. Dy: (615) 798-7410. S: Pamela. Dy: D Co, 4-101 Avn Regt, Fort Campbell.

Ashley, Anthony M., (WO1) (M89) (Tony) 209 Sorrell Drive, Apt. A, Copperas Cove, TX 76522. Res: (817) 288-1030. Dy: Cobra Pilot, C Trip, 1-7 Cav, 1st CD. RW Qual. Time: 256 Hrs./Cbt 34 AM/1.

Atkins, Charles V., Jr., (CW3) (M90) (Chuck) 2920 Gary Avenue, Manhattan, KS 66502. Dy: (913) 239-6700. Res: (913) 539-8306. S: Pamela. Dy: AH64 IP, A Co, 1-1 Avn Regt, Ft. Riley. Rtg: IP. RW Qual. Time: 2,000 Hrs./Cbt 65 DFC1, AM/2.

Ault, Thomas E., (MW4) (M82) (Tom) 107 Hank Nik Drive, Ozark, AL 36360. Dy: (205) 255-2680. Res: (205) 774-5654. S: Phyllis. Dy: Accident Investigation, US Army Safety Center, Fort Rucker. Rtg: MAA SIP. RW Qual. Time: 7,200 Hrs./Cbt 2,610 DFC1, AM/57.

Aycock, Edward B., (CW3) (M83) (Hunter) 301 Calloway Street, Newton, AL 36352-9574. Res: (205) 299-6241. S: Carol. Dy: Korea. Rtg: SAA SIP MTP. RW Qual. Time: 2,000 Hrs./Cbt 8

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Bachand, Robert J. Jr., (CW3) (M81) (Bob) A Company, 2-227th AHb, APO New York 09165. Dy: Aircraft Armament Maint Tech/AH-64 Pilot. Rtg: AA. RW Qual. Time: 1,500 Hrs./Cbt 100 AM/2.

Baliochetti, Vincent A., (CW3) (M90) (Vin) P.O. Box 84, Gunpowder Branch, Aberdeen Proving Ground, MD 21010-0084. Dy: (301) 671-1773. S: Eileen. Dy: ARM-V Management Analyst. RW Qual. PW Qual. Time: 11,200 Hrs.

Baker, Glenn F., (WO1) (M89) Q Troop, 4/2 ACR, Box 76, APO New York 09092-0216. Dy: 4614-673. Res: 09170-1505. S: Lynn. Dy: AH-1 Pilot, Nurnberg, Germany (Feust Army Airfield). RW Qual. Time: 400 Hrs./Cbt 40 AM/1.

Ballard, Kevin D., (WO1) (M90) 52 End Avenue, Fort Rucker, AL 36362-2240. Dy: (205) 255-6640. Res: (205) 598-4712. S: Denise. Dy: D/1-13th Avn. RW Qual. Time: 160 Hrs.

Bandy, James R. III., (CW4) (M83) (Jim) 1514 Robertson Court, Clarksville, TN 37042. Dy: (502) 798-7084. Res: (615) 647-6742. S: Gloria. Dy: 160th SOAR (ABN), Fort Campbell. Rtg: MAA SIP IFE. RW Qual. PW Qual. Time: 7,200 Hrs./Cbt 1,026 AM/22.

Banks, Peter D., (CW3) (M87) Q Troop, 4/2 ACR, Box 10143, APO New York 09092-0216. Dy: 4614-823. Res: 0911-52213. S: Barbie. Dy: AH-1 Maint Tech, Nurnberg, Ger. Rtg: SAA MTFE. RW Qual. Time: 2,200 Hrs./Cbt 50

Barlow, Joseph W. Jr., (CW3) (M91) (Joe) 12523 John Barry, San Antonio, TX 78233. Dy: (512) 221-2526. S: Dora. Dy: HO's Fifth U.S. Army (CART Team). Rtg: MTP. RW Qual. Time: 1,000 Hrs.

Barnett, Gene P., (WO1) (M91) (Paul) 23 Mann Street, Fort Rucker, AL 36362. Dy: (206) 255-6640. Res: (205) 588-1608. S: Connie. Dy: D Co, 1/13th Avn.

Barr, Chas. M. II. (CW4P) (M69) (Chuck) USA Priority Air Transport, Andrews AFB, Washington, DC 20331-5000. Dy: (301) 981-7885. S: Mary. Dy: SIP/Project Officer-Less Jct. Rgt: MAA IFE SIP. RW Qual. FW Qual. Time: 9,600 Hrs./Cdt 1,105 DFC/1, AM/39. Past VP, Rhine Valley Chapter.

Barrenfines, William H., (WO1) (M88) (Bill) HHC/Vs Aviation Regiment, APO San Francisco 96204-0483. Res: (904) 593-6017. S: Phyllis. Dy: Avn Maint Tech/TAC.

Barrie, Steven B., (CW2) (M89) (Steve) 14044 Compton Heights Ct., Clifton, VA 22024. Dy: (703) 664-4073. Res: (703) 818-8422. S: Kim. Dy: RWPAT, USADAC, Ft. Belvoir. Rgt: IP. RW Qual. Time: 2,600 Hrs. Life Member.

Barton, Vance L., (CW4P) (M84) (Vance) 509 Big Creek Road, Westford, TX 76087-9348. Dy: (817) 280-7623. Res: (817) 588-1044. S: Robin. Dy: Operations & Standardization Officer, DFRD Bell Helicopter. Rgt: MAA SIP TP. RW Qual. Time: 6,400 Hrs./Cdt 992 DFC2/AM19,2V.

Bayar, Thomas A., (CW2) (M88) (Aquino) H Company, 4th Aviation Regiment, APO New York 09185. S: Melissa. Dy: H Co, 4th Avn Regt, Finthen Army Airfield. RW Qual. Time: 750 Hrs.

Beauchamp, Daniel J., (WO1) (M89) (Newt) 80 Harris Drive, Fort Rucker, AL 36362-2339. Dy: (206) 255-6574. Res: (206) 588-5559. S: Trish. Dy: Aeroscout Pilot, A2-229th, Fort Rucker. Rgt: AA. RW Qual. Time: 393 Hrs./Cdt 38

Becker, William R., (CW3) (M77) (Bill) B Co, 70th Trans Bn, #316, APO New York 09028. S: Nadine. Dy: Safety Officer, B Co, 70th Trans Bn (AWM). Rgt: SAA TP. RW Qual. Time: 3,200 Hrs. Life Member. Sec, Rhine Valley Chapter.

Bedard, Alex R., (CW2) (M90) (Rick) D Company, 31st Avn Bde, Box 3109, APO New York 09250-5000. Dy: 09802-832-768. Res: 09802-8748. S: Lori. Dy: Armament Maintenance Tech.

Beebe, Frederick R., (CW2) (M84) (Fred) HHC, 7-159th Avn Regt., Box 377, APO New York 09061. Dy: 421-6610. Res: 49-711-349-738. S: Ginger. Dy: UH-1 Instructor Pilot, 49-711st, Fort Rucker. Rgt: IP. RW Qual. Time: 2,300 Hrs.

Boebe, Sandra L., (CW4) (M86) 15804 Crocus Lane, Dumfries, VA 22026. Dy: (703) 664-2019. Res: (703) 680-0449. S: Steven. Dy: Food Wing Pilot, B Co, MI LI. Rgt: MAA IFE SIP MTP. RW Qual. FW Qual. Time: 4,500 Hrs.

Belshline, David C., (MW4) (M68) (Dave) 6846 Townsend Road, Fayetteville, NC 28306. Res: (919) 425-9022. S: Beate. Dy: Standardization Officer, 18th Avn Bde, Ft. Bragg. Rgt: MAA IFE IP. RW Qual. FW Qual. Time: 7,842 Hrs./Cdt 1,411 AM/36.

Belanger, Keith L., (WO1) (M90) 4308-2 Wolford Drive, Fort Riley, KS 66442. Dy: (913) 239-6631. Res: (913) 784-3218. S: Cathie. Dy: D Co, 4-1 Avn. RW Qual. Time: 225 Hrs./Cdt 41 AM/1.

Bell, Brian L., (WO2) (M91) 507 Briarwood Drive, Apt. 15-A, Enterprise, AL 36330. Dy: (206) 255-6007. Res: (206) 347-2994. S: Ellen. Dy: C/1-145. RW Qual. Time: 135 Hrs.

Bent, Daniel P., (CW2) (M89) Q Troop, 411 ACR, Box 79, APO New York 09146-5000. S: Deirdre A. Dy: 152G AH-1S Helicopter Pilot, Quiksilver Attack Helpt Rgt. RW Qual. Time: 500 Hrs.

Benson, Adam S., (WO2) (M91) CMR 2, Box C-12284, Fort Rucker, AL 36362. Dy: (206) 255-4006. Dy: IERW Flight Student, C Co, 1/145.

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Aviation Warrant Officer Directory

Benson, Bruce D., (CW3) (M88) 506 Chocoma Drive, Enterprise, AL 36330. Dy: (206) 255-5404. Dy: OIC Cairns Army Airfield, ALMO Office. Rgt: SAA MTP. RW Qual.

Benson, Matthew K., (CW2) (M89) 1904-6 Tryon Drive, Fayetteville, NC 28303-6205. Dy: (919) 306-3837. Res: (919) 486-3141. Dy: UH-60A Black Hawk Pilot, A2-82 Avn. Rgt: AA. RW Qual. FW Qual. Time: 1,100 Hrs./Cdt 10 AM/1.

Berg, Dale M., (MW4) (M89) 531-H Waters Edge, Newport News, VA 23606. Dy: (804) 878-6655. Res: (804) 591-2802. Dy: Project Officer, New Systems Team, USAUSL. Rgt: MAA TP. Time: 4,600 Hrs./Cdt 1,430.

Bergamo, Mark G., (CW2) (M89) 553 Andover Road, Fayetteville, NC 28311. Dy: (919) 386-2453. Res: (919) 630-2282. S: Lorraine. Dy: IP OH-560, 4717 Cav, 18th Avn Bde, Ft. Bragg. Rgt: AA IP. RW Qual. Time: 1,800 Hrs./Cdt 50

Berge, Jong-Leo, (CW4) (M89) HHT, 314 Cav Regt (AVUM), APO New York 09702. Dy: Avn Maint Tech, Schweinfurt, Germany. Rgt: MAA MTP. RW Qual. Time: 5,600 Hrs./Cdt 1,304

Bernett, David S., (WO1) (M91) A Company, 5-501 Aviation, Unit 15567, APO AP 96297-0626. Dy: AH-1 Pilot, Korea.

Bemler, Michael D., (CW3) (M88) (Mike) 299 Mayhew Road, Clarksville, TN 37040. Dy: (502) 798-9306. Res: (615) 645-5363. Dy: B Co, 3-101 AHB, Ft. Campbell. Rgt: SAA IP SIF IFE. RW Qual. Time: 2,800 Hrs.

Bernstein, Mark K., (CW2) (M86) (Lone Wolf) 505 Briarwood, Apt. H-7, Enterprise, AL 36330-2289. Dy: (206) 255-3263. Dy: E Co, 1-14 Avn, Fort Rucker. Rgt: IP. RW Qual. Time: 1,600 Hrs.

Billings, Martin D., (CW3/P) (M86) (Merle) 803 Flison Court, Newport News, VA 23602-9340. Dy: (804) 878-3286. Res: (804) 874-5892. S: Sukl. Dy: Maint Test Ft. Evaluators/TP, DOES, USAUSL. Rgt: MAA MTP MTFE SIP. RW Qual. FW Qual. Time: 7,500 Hrs./Cdt 750 AM/13.

Birmingham, Dempsey L., (CW4) (M90) 5063 Lambgate Lane, Woodbridge, VA 22183. Dy: (301) 981-7885. Res: (703) 590-0031. S: Christine. Dy: Operations, USAPAT (C-20), Andrews AFB. Rgt: MAA IFE SIP IP. RW Qual. FW Qual. Time: 8,200 Hrs./Cdt 800 AM/39.

Birmingham, Glenn D., (CW3) (M87) Co. D, 4228th Avn Regt, Unit 5704, APO AA 34042. Dy: (817) 690-1004. S: Mindy. Dy: AVIM Maint Off, UH-1VH MTFE. Rgt: SAA TP. Time: 2,300 Hrs.

Black, Frank M., (WO1) (M89) (Gus) 727 Crestwood Drive, No. 5, Manhattan, KS 66502. Dy: (913) 239-3817. S: Andrea. Dy: UH-1V Medevac Pilot, 82nd Med Det. Rgt: AA. RW Qual. Time: 500 Hrs./Cdt 100 AM/2.

Black, Walter B., (WO1) (M91) 610 Meadowland Road, Kennesaw, GA 27284. S: Tanja. Dy: 1-2 Avn Regt, Korea. RW Qual. Time: 250 Hrs.

Blankenship, Steven W., (CW3) (M84) (Steve) A Company, 2-1 Aviation, Box 3255, APO New York 09250. S: Jessica. Dy: AH-64 IP, Katterbach, Germany. Rgt: SAA IP. RW Qual. Time: 2,000 Hrs./Cdt 25 AM/2.

Blood, Jack E., (WO1) (M89) 21st Ag Reg Det

(WH02AA), Fort Hood, TX 76544. S: Patricia. Dy: Camp Base, Korea. RW Qual. Time: 400 Hrs.

Bodin, Errol P., (CW2) (M89) (Flynn) S Troop, 4/11 ACR, Box 496, APO New York 09146. S: Terri. Rgt: AA. RW Qual. FW Qual. Time: 1,007 Hrs.

Boggs, Lawrence A., (CW4) (M82) (Larry) 219 Cherokee Lane, Hinesville, GA 31313. Dy: (807) 767-3767. S: Elaine. Dy: 3 Pt, 48th Med Co, Fort Stewart. Rgt: IP. RW Qual. Time: 6,150 Hrs./Cdt 1,400 DFC/1, AM/10.

Bonds, Felix G., (CW2) (M91) 63 E. Harris Drive, Fort Rucker, AL 36362. Dy: (206) 255-5223. Res: (206) 598-3744. Dy: Standardization Instructor Pilot. Rgt: AA. RW Qual. Time: 3,000 Hrs.

Booth, Glenn D., (CW3) (M82) H Company, 4th Aviation Regiment, APO New York 09185-2383. Rgt: SAA IP. RW Qual. Time: 3,000 Hrs./Cdt 246 AM/2.

Boswell, Clint F., (CW2) (M88) (Frank) ERAU, Fort Rucker, AL 36362. Res: (206) 347-5917. S: Astrid. Rgt: SAA IP. RW Qual. Time: 2,500 Hrs.

Bottom, Robert G., (WO1) (M91) (Bob) 159th Medical Company, Box 408, APO New York 09175. Res: 49-6151-61039. S: Susan. Dy: Utility Helpt Pilot (UH-60) 159th Medical Company. Rgt: AA. RW Qual. Time: 400 Hrs.

Bowyer, Steven E., (CW2/P) (M83) 5055 Huffman Mill Road, Hopkinton, VT 4240-9122. Res: (502) 885-3963. S: Debbie. Rgt: SAA IP. RW Qual. Time: 3,100 Hrs.

Bradford, Ronald F., (CW3) (M83) (Sig) 348 Sunset Court, Cadiz, KY 42211. Dy: (502) 756-4678. Res: (502) 322-8936. S: Candy. Dy: D Co, 1/160th SOAR (Airborne), Fort Campbell. Rgt: SAA MTP. RW Qual. Time: 1,600 Hrs./Cdt 43 AM/1.

Bradley, Eric R., (CW2) (M88) 1777 2nd Avenue, No. 462, Fort Ord, CA 93941. Dy: (408) 242-2733. Res: (408) 375-4811. S: Anne. Dy: AH-1 Pilot. Rgt: AA. RW Qual. Time: 450 Hrs.

Braman, Gary D., (CW3) (M85) 56th Aviation Co, Box 337, APO New York 09028. Dy: 382-5159-4343. Res: 0621-731-853. S: Louise. Dy: Utility Airplane Pilot, Bn ASO, 70th Trans Bn, Coleman AAF. Rgt: AA. RW Qual. FW Qual. Time: 2,000 Hrs. Life Member.

Brenda, Todd J., (WO1) (M89) (Tirm) A Company, 2/227 AHB, APO New York 09165. Dy: 322-7760. Res: 49-06181-54924. S: Carolyn. Dy: AH-64 Pilot, A Co, 2-227th AHB, Hanau, Germany. RW Qual. Time: 410 Hrs./Cdt 73 AM/3.

Brennell, Thomas S., (CW3) (M84) D Co, 502nd Avn. Regt., APO New York 09028. Dy: 049-0621-775-5104. S: Angie. Dy: Standardization IP. Rgt: SIP IFE. RW Qual. FW Qual. Time: 3,000.

Bressner, Armand C., (CW2) (M89) I Co, 3rd Aviation Regt., APO New York 09182. S: Henda. Dy: Maintenance Test Pilot UH-60. Rgt: MTP. RW Qual. Time: 1,800 Hrs.

Brown, Donald T., (CW3) (M89) (Don) A Co, 3rd MI Battalion, Box 4464, APO San Francisco 96271-0154. Dy: 3175-6369. Res: 0333-691-4624. S: Yong Ok. Dy: OVA-1 SIF/FE, Camp Humphreys, Korea. Rgt: SAA SIP IFE. RW Qual. FW Qual. Time: 4,050 Hrs.

Brookins, Sanford R., (CW4) (M79) (Sandy) 718 Badger Circle, Harker Heights, TX 76543-6065. Dy: (817) 287-9924. Res: (817) 698-1150. S: Yvonne. Dy: Stds Officer, 1st Sqdn, 8th CB (AC), Fort Hood. Rgt: MAA SIP IFE. RW Qual. Time: 3,900 Hrs. AM/17.

Brosenman, Dwight A., (CW2) (M91) (Beast Man) 112 No. 4 Weeks Drive, Enterprise, AL 36330. Dy: (206) 255-4006. Res: (206) 363-2766. Dy: TAC Of-

flier/inst. Pilot. Rtg: IP. RW Qual. Time: 3,300 Hrs.

Brewer, Jamell R., (CW2) (M89) (Lutherberg) 2008 Dusk Drive, Killeen, TX 76543. Dy: (817) 287-9922. Res: (817) 690-5878. Dy: AH-64 Maint Off. C/1-Cav. Rtg: MTP. RW Qual. Time: 500 Hrs.

Brewer, Lindsay R., (CW2) (M90) 1917 Strong St., Marlinton, KS 66502. Dy: (913) 239-3486. Res: (913) 533-6623. Dy: Am. Maint. Officer Pilot 4th Bn, 1st Avn. Regt./Ft. Riley, KS. Rtg: MTP. RW Qual. Time: 1,700 Hrs./Cdt 52 AN/1.

Broecke, Keith S., (CW4) (M88) CASSIDUSMCA, Box 271, APO New York 09457. Dy: (611) 750-5502. Res: (611) 71-8968. S. Nancy Dy: Standardization Branch Chief. Rtg: MAA IFE SIP. RW Qual. Time: 5,250 Hrs./Cdt 775 AM/31. AA Of Year 1979.

Brown, Casey K., (W01) (M91) 366 Reservation Road, Apt. A-7, Marlin, CA 95933. Res: (408) 883-1783. S. Teresa S. Dy: AH-1 Pilot, C/1-123rd Avn. (M89).

Brooks, Robert A., (MW4) (M90) (Bob) 401 Choclat Street, Enterprise, AL 36330. Dy: (205) 255-5656. Res: (205) 347-0831. S. Holly. Dy: Chief, Night Vision Device Branch, Ft. Rucker, AL. RW Qual. Time: 5,555 Hrs./Cdt 1,400

Brown, Clark W., (CW2) (M87) 4 Fox Tail Court, Savannah, GA 31406. Dy: (912) 352-6249. Res: (912) 922-2031. S. Melinda. Dy: SIP, IFE, B3-160th SOAR (A), HAA, GA. Rtg: AA SIP IFE. Time: 3,500 Hrs./Cdt 200

Brown, Richard E., (MW4) (M79) 8158 Avn, Box 1457, USMC-USB-WBS, APO New York 09457. Dy: (337) 5258. Res: (611) 367555. S. Sharon. Dy: A Co, 8th/158th Avn, Wiesbaden, Germany. Rtg: MAA IP. RW Qual. Time: 5,600 Hrs./Cdt 1,100 DFC/1, AM/26.

Brown, Roger H., (CW3) (M85) 618 Wagon Trail, Clarksville, TN 37042. Dy: (615) 647-4935. S. Colleen. Dy: UH-60 Pilot, C Co, 5/101st Avn Regt, Ft. Campbell, Rtg: MTP. RW Qual.

Brown, Wayne E., (CW2) (M88) 240 Candlebrook Drive, Enterprise, AL 36330. Res: (205) 347-1949. Dy: D Co, 1/13 Avn Regt (Fixed Wing Counsel). Rtg: IP. RW Qual. Time: 2,100 Hrs./Cdt 180

Bruce, Robert B., II (CW3) (M91) (Bob) 105 Oakview Circle, Enterprise, AL 36330. Dy: (205) 255-4846. Res: (205) 347-5947. S. Kathy. Dy: OH-58 PC Section Leader, B/1-14 Avn. Rtg: AA SIP. RW Qual. Time: 3,300 Hrs.

Brunner, Jeffery E., (CW2) (M89) (Diamond) 3440 Marble Terrace, Colorado Springs, CO 80906-4641. Dy: (719) 579-2753. S. Patricia. Dy: A/1-4 Avn, Ft. Carson. Rtg: AA. Time: 600 Hrs.

Brunsting, Clifford D., (CW4) (M75) (Sling) 5314 East Hamill Street, Mesa, AZ 85205. Dy: (602) 891-3506. Res: (602) 366-3885. S. Debra. Dy: Chief, Ft Test, Defense Plant Rep Off. McDonnell Douglas Helicopt. Rtg: MAA IP. RW Qual. Time: 4,300 Hrs./Cdt 300 AM/1, IV, Arizona Chapter. Past VP, Wings Of The Marine Chapter.

Buckman, Stephen J., (CW2) (M81) 2301 Hillside Hill, Killeen, TX 76543. Dy: (817) 288-1014. Res: (817) 690-6174. S. Kelle. Dy: D Co, 227 Avn, 1 CO. RW Qual. Time: 7,500 Hrs./Cdt 100

Buck, Stanley J., (CW2) (M89) 2219 Hilltop Loop, Killeen, TX 76542. Res: (817) 287-6799. S. Jean. Dy: 175th CAC, 6 Cavalry Bde (Air Combat), Fort Hood. RW Qual. Time: 1,300 Hrs.

Buckner, Kevin A., (CW3) (M79) (Buck) 680 Cholla Drive, Barstow, CA 92311. Dy: (619) 368-3378. S. Elizabeth. Dy: Avn Off, G3/AR, NTC, Fort Irwin, CA. Rtg: SAA IP SIP IFE. RW Qual. Time: 3,000 Hrs. VP, High Desert Chapter.



Aviation Warrant Officer Directory

Buis, Roger A., (CW3) (M89) Army Aviation TAFI, Unit 6/600, APO AE 09806-1600. Dy: 011-9663-787-7412. Res: 011-9663-771-0699. S. Pauline E. Rtg: AA SIP IP. RW Qual. Time: 3,300 Hrs.

Bullington, Larry B., (W01) (M91) 45th Medical Company, Box 28, APO New York 09061. Dy: 4216-848. Res: 0711-457-0931. S. Amy. Dy: Aviator, 45th Medical Co, Nellingen, Germany. RW Qual. Time: 350 Hrs./Cdt 80

Burbank, Richard W., (CW4) (M70) (Rich) 10 Conshing Court, Columbus, GA 31907. Dy: (404) 545-5519. Res: (404) 561-1975. S. Earsa. Dy: Instrument R Examiner, Fort Benning, GA. Rtg: MAA IFE. RW Qual. Time: 7,600 Hrs./Cdt 1,200 DFC/AM/1, IV.

Burgess, Ronald E., (CW4) (M76) (Ron) P.O. Box 6083, Fort Hood, TX 76544. Dy: (817) 288-3638. Res: (817) 698-4423. S. Linda. Dy: C/3-3 Avn, Fort Hood. Rtg: MAA IP SIP. RW Qual. Time: 5,000 Hrs./Cdt 300 AM/6. Life Member.

Burhans, James R., (CW2) (M91) (Jim) A Co, 3/4 Avn, Box 144, APO New York 09185. Dy: 334-3779. Res: 409-6131-385391. S. Kelly. Dy: Armament Officer, Fth Army Airfield, Mainz, Germany. VP, Mainz Chapter.

Burton, Donald A., (CW2) (M91) RD 1, Box 182A, Feltley, DE 19943. Dy: (301) 671-5636. Res: (302) 284-3727. Dy: Pilot, AASF - Edgewood, MD. RW Qual. Time: 6,000 Hrs./Cdt 194

Bush, William E., (W01) (M89) 938 Enjay Way, Apt. C, Carthage, NY 13619. Dy: (315) 772-3280. Res: (315) 493-7107. S. Jennie. Dy: Adk Hqtr Pilot, B Troop, 3/17 Cav, 10th Mtn Div, RW Qual. Time: 370 Hrs.

Bush, Lawrence O., (CW4) (M89) 1690 Simonelli Road, Muskegon, MI 49445. S. Linda. Dy: Scout Pilot, Co A, 1/238th Avn Regt, MWRNG, Grand Lodge. Rtg: SAA. Time: 3,000 Hrs./Cdt 1,030

Bushy, Raymond J., (CW2) (M89) (Bush) 4802 Jet Wing Circle West, Colorado Springs, CO 80916. Dy: (719) 579-3230. Res: (719) 597-4262. S. Laura. Dy: B/1-4 Avn Regt, Ft. Carson. Rtg: AA MTP. RW Qual. Time: 800 Hrs.

Busse, Morgan C., (W01) (M91) B Company, 1501 Aviation, Unit 1521, Box 23, APO AP 96271-0147. Dy: 753-6555. Dy: Pilot, B Co, 1501 Avn, Camp Humphreys, Korea.

Butler, William E., (W01) (M91) (Bill) B Company, 5501st Avn, Unit 15567, APO AP 96297-0626. Dy: 721-2556. Res: 721-2736. S. Dolores. Dy: Attack Helicopter Pilot, Camp Eagle. RW Qual. Time: 280

Byrd, Charles T., (W01) (M89) (Chuck) 4175 Westmeadow Drive, Apt. 2286, Colorado Springs, CO 80906. Res: (719) 576-8171. Dy: CH-47 Chinook Pilot. RW Qual. Time: 275 Hrs.



Cain, Rodney E., (CW3) (M83) (Rod) HHC, Task Force Stryker, APO New York 09185. Dy: 334-3650. Res: 06122-13760. S. Lisa. Dy: Standardization Ofc, Fth Army Airfield, Germany. Rtg: SAA SIP.

Calkins, Martin A., (W01) (M89) N Troop, 4/11

AOR, APO New York 09146. Dy: 011-49-661-86524. S. Janet. Dy: Fkda, Germany. RW Qual. Time: 700 Hrs.

Callahan, Brian D., (CW2) (M85) 26 Castle Lane, Fort Rucker, AL 36382. Dy: (205) 255-6008. Res: (205) 598-4914. S. Caroline. Dy: Ft. Irwin, A/1-14 ATB. Rtg: AA IP. RW Qual. Time: 1,950 Hrs.

Campbell, Clare L., (CW2) (M89) 2105 Douglas, Leesville, LA 71446. Dy: (318) 531-1865. Res: (318) 330-69. S. Stephanie. Dy: Pilot, UH-1, D Co, 35 Avn Regt. RW Qual. Time: 750 Hrs.

Campbell, Richard E., (CW4) (M82) (Rich) 104 West Sandcreek Road, Enterprise, AL 36330. Dy: (205) 255-5587. Res: (205) 347-1261. S. Cynthia. Rtg: MAA IFE IP. RW Qual. Time: 8,600 Hrs./Cdt 990 DFC/AM/1, IV.

Canupp, James F., (CW2) (M88) C Company, 2227 Aviation, APO New York 09165. Dy: 322-7789. Res: 06187-26160. Dy: Apache Pilot, Rtg: SAA. Time: 366 Hrs./Cdt 30 AM/2.

Carr, Ronald E., (CW2) (M89) (Ron) C Company, 3/227th, APO New York 09165. Dy: 322-7525. Res: 06188-6630. S. Linda. Dy: Pilot, AH-64, Fiegerhorst, Hanau, Germany. RW Qual. Time: 600C/1, 40 AM/1.

Carr, Tyrus R., (CW4) (M81) (Ty) 245 Rushlake Court, Newport News, VA 23602. Dy: (804) 879-2605. Res: (804) 249-0542. S. Susan. Dy: UH-1 Troop Chief, Army TP School, Ft. Eustis, Rtg: MAA SIP MTP IP. Time: 7,400 Hrs./Cdt 1,800 DFC, AM/32. Past SVP, Redcatcher Chapter.

Carter, Nancy K., (CW4) (M85) 385-B Cindy Drive, Fairbanks, AK 99701-3218. Dy: (907) 353-6996. Res: (907) 451-7239. Dy: Bde Avn Safety Officer/EH-60 Pilot, Avn Bde, Ft. Wainwright, Rtg: SAA. RW Qual. Time: 2,100 Hrs.

Carwright, Edward., (W01) (M90) (Hoss) B Co., 4/19th Avn. Regt., Box 825, APO New York 09359. S. Petra. Dy: UH-1 General Service Pilot. RW Qual. Time: 410 Hrs./Cdt 175

Casady, Quincy R., (CW2) (M83) 2706 Chumelon Drive, Killeen, TX 76542. Dy: (817) 288-1023. Res: (817) 554-2705. Dy: D/227th Avn Regt, 1st Cav Div, Fort Hood. Rtg: AA. RW Qual. Time: 1,500C/1, 6

Case, Larry W., (CW4) (M84) (Dustbowl) P Troop, 4/2 ACR, Box 412, APO New York 09892. S. Debbie. Rtg: MAA SIP. RW Qual. Time: 3,100 Hrs./Cdt 80 Past Treas, Redcatcher Chapter.

Cash, Guy W., (CW2) (M89) (Chip) B Company, 4-159 Avn., No. 114, APO New York 09359. Dy: UH-1H General Support Pilot, Stuttgart, Germany. Rtg: AA. Time: 1,050 Hrs.

Castagna, Thomas A., (W01) (M90) (Stag) 30 Crane Street, Fort Rucker, AL 36382-5000. Dy: (205) 255-4006. Res: (205) 598-8286. S. Kyong Un. Dy: C/1-145th, RW Qual. Time: 200

Caylor, Monte E., (CW2) (M89) B Company, 6/158th Aviation Regiment, APO New York 09185. Dy: 08131-1469-844. Res: 06131-478-140. S. Pauletta. Dy: Maintenance Tech, Mainz Fth Army, Germany. Rtg: AA TP.

Chambliss, Gary D., (CW4) (M87) 1821 Dusk Drive, No. 4, Killeen, TX 76543. Dy: (817) 287-7973. Res: (817) 690-2605. S. Fran. Dy: Bde Standardization Off, HHT, 6 CBAC, Fort Hood. Rtg: MAA IFE SIP. RW Qual. Time: 4,500 Hrs.

Chapman, Archie J. Jr., (CW2) (M88) (A.J.) H Company, 1st Avn. Regt., Box 2071, APO New York 09250. Dy: 4672-871-639. Res: 09802-1451. S. Deleen. Dy: Katterbach Army Heliprot. Rtg: AA. RW Qual. Time: 756 Hrs./Cdt 154 AM/1.

Chaston, Mark R., (WOC) (M91) (Chaz) 72 Blackwell Street, Fort Rucker, AL 36362. Dy: (205) 255-4008. Res: (205) 568-6430. S. Michelle. Dy: C/1-145. RW Qual. Time: 125 Hrs.

Chenault, Richard K., (CW2) (M88) (Rich) 77013 Rusk Circle, Fort Hood, TX 76544-1554. Dy: (817) 288-3354. Res: (817) 539-1194. S. Nancy. Dy: A6k Hqst Pilot, C Co, 13 Avn Regt. AA. RW Qual. Time: 525 Hrs.

Childress, Adrian C., (W01) (M89) 5649 Lockridge Lane, Apt. 2, Fort Hood, TX 76544-5057. Dy: (817) 288-3354. Res: (817) 539-1194. S. Brenda. Dy: Pilot, AH-64, C Co, 5-229 AHV. RW Qual. Time: 300 Hrs.

Childs, Gregory E., (CW2) (M90) C Co, 2-1 Avn., Box 3297, APO New York 09250. Dy: 011-49-9802-8631. S. Angie. Dy: Pilot AH-64, Ansbach, Germany. RW Qual. Time: 500 Hrs./Cbt 10 AM/23.

Choate, Donald R., (CW2) (M90) (Don) 9825 A Beasley Road, Fort Drum, NY 13603. Dy: (315) 772-4065. Res: (315) 774-4118. S. Loren. Dy: Evac Pilot, 229th Med Det (RA), Fort Drum. Sig: SAA MTP. RW Qual. Time: 1,680 Hrs./Cbt 40

Chubbey, Marshall A., (CW2) (M87) (Gator) 7th AR Cav, 3rd Squadron, HHT (WAP/TO), APO New York 09028. Dy: 382-3215. S. Sabine. Dy: AH1 Pilot, Sandhofen, W. Germany. Rtg: AA. RW Qual. Time: 480 Hrs.

Church, James R., (CW4) (M87) (Rick) 170 Hickory Grove Blvd., Clarksville, TN 37040. Dy: (502) 798-2729. Res: (615) 562-3515. S. Cindy. Dy: 1-01 Avn Regt, Fort Campbell. Rtg: SAA IFE. RW Qual. Time: 5,000 Hrs./Cbt 60 AM/4.

Church, William A., (CW3) (M79) (Bill) A Company, 5501st Aviation Regiment, APO AP 96297-0626. Dy: Aeroscout SP, Camp Eagle Korea. Rtg: SAA SP. RW Qual. Time: 4,746 Hrs.

Cisneros, Frank S., (CW3) (M90) USMACV Avn Detach, Berlin, PSC 13, Box 784, APO AE 09187. S. Patricia. Dy: USMACV Avn Detachment, Berlin. RW Qual. Time: 1,600 Hrs.

Clark, Neil D., (CW4) (M87) 6306 Bridgerton Court, Springfield, VA 22152. Dy: (703) 664-4789. Res: (703) 866-3944. S. Jan. Dy: Analyst Chf, CAASA, USADAC, Ft. Belvoir. Rtg: SP. RW Qual. Time: 4,000 Hrs./Cbt 350 AM/7.

Clark, Robert L., (CW3) (M86) (Bob) Aviation Detachment, PSC 13, Box 1444, APO AE 09187. Dy: 332-5426. Res: 48-30413-6218. S. Paula. Dy: IF Berlin Ft Det. Rtg: SAA P. RW Qual. Time: 3,200 Hrs.

Cline, Kenneth W., (CW2) (M90) F Twp, 517 Cav. (CF), APO San Francisco 96224. Dy: 730-4829. S. Diana. Dy: Instructor Pilot, C22 CAB 2D, Camp Mobile, Korea. Rtg: P. RW Qual. Time: 1,600 Hrs.

Coates, David A., (CW4) (M72) (Dave) HHC 4th Brigade, 8th ID, APO New York 09185. S. Patricia. Dy: Brigade Standardization Officer. Rtg: MAA IFE SP IP. RW Qual. Time: 4,375 Hrs./Cbt 700 AM/27. VP, Maint Chapter. Past VP, Air Assault.

Coder, D. Robert., (CW4) (M85) (Bob) 443 Baldwin Road, Wahiawa, HI 96786. Dy: (808) 656-1364. Res: (808) 624-2072. S. Tricia. Dy: HHC, 1-25 Avn Regt, Schofield Barracks. Rtg: MAA. RW Qual. Time: 4,700 Hrs./Cbt 565 Past VP, Pikes Peak Chapter. AAAAA McClellan-86.

Cogolia, Joseph M., (W01) (M89) CMR 6, Box 2076, Fort Rucker, AL 36362. Dy: (205) 255-5049. RW Qual. Time: 700 Hrs.

Coker, Greg S., (W01) (M89) (Cowboy) 2085 B Werner Park, Fort Campbell, KY 42223. Dy: (502) 798-2744. Res: (615) 431-3515. S. Cecilia. Dy: Pilot

Aviation Warrant Officer Directory

AH-64, A Co, 1-101st Avn Regt, Fort Campbell. RW Qual. Time: 350 Hrs.

Coleman, George L., (CW4) (M83) P.O. Box 60038, Savannah, GA 31420-0038. Dy: (912) 352-5396. S. Marcia. Dy: 70th Avn Det (AVIM), 224th MI BN, Hunter AAF. Rtg: MAA MTP SP. RW Qual. Time: 5,400 Hrs./Cbt 450 AM/11.

Coleman, James T., (CW3) (M91) (J.T.) 205 Loyola Drive, Enterprise, AL 36330. Dy: (205) 255-6418. Res: (205) 393-2699. S. Josephine. Dy: Instructor Pilot, D1-212 ATB, Fort Rucker. Rtg: SAA IP. RW Qual. Time: 2,500 Hrs.

Cook, George W., (CW2) (M89) (Boby) 702 Clayton, Clarksville, TN 37040. Dy: (502) 798-5540. Res: (502) 522-7072. S. Sondra. Dy: A1-160 SOAR, Fort Campbell. Rtg: P. RW Qual. Time: 2,500 Hrs.

Cooney, James T., (CW2) (M91) (Jim) B Co, 2501 Avn, Box 838, APO AP 96271-0148. Res: (817) 547-4010. S. Shirley. Dy: B Co, 2501st Avn, Korea. RW Qual. Time: 1,800 Hrs./Cbt 1,040 DFC/1, AM/28.

Cooper, Jay M., (CW4) (M87) 1159 Lester Road, Fort Sill, OK 73503. Res: (405) 355-2854. Dy: Pilot/Sail Officer, 2nd Bn, 158th Avn Regt, 2nd Pz, A Co, RW Qual.

Courmeyer, Marc P., (CW3) (M86) (Marcus) B Co, 3227th AHB, Fliegerhorst, Kaseem, APO New York 09165. Dy: 049-6183-55488. Res: 049-6181-61587. S. Sally Louise. Dy: AH-64 Apache P, Hanau, Ger. Rtg: SAA IP. RW Qual. Time: 2,100 Hrs./Cbt 130 AM/2.

Covell, Charles A., (CW4) (M88) (Alex) E Co, 4159th Aviation, Box 19, APO New York 09359. S. Heike. Dy: P.C. Officer/SH-60 ME. RW Qual. Time: 3,200 Hrs./Cbt 27 AM/1.

Cox, Robert E., (CW2) (M87) (Bob) 42 Boyce Lane, Fort Rucker, AL 36362. Dy: (205) 255-4308. Res: (205) 598-1390. S. Glenda. Dy: TAC Officer, A1-145th. Rtg: SAA. Time: 2,000 Hrs.

Cradic, William B., (W01) (M80) A Troop, 516 Cavalry, APO New York 09457. Dy: 049-0611-7055739. Res: 049-0611-716109. S. Rusty. Dy: A Troop, 516 Cav, Wiesbaden, Germany. RW Qual. Time: 470 Hrs./Cbt 40

Crean, Edward T., (CW2) (M91) (Ed) 35 Logan Street, Fort Rucker, AL 36362-2429. Dy: (205) 255-4940. Res: (205) 598-3338. S. Harmony. Dy: Student Management Officer, HHD, 1-212th Avn Regt. Rtg: P. RW Qual. Time: 1,700 Hrs.

Crisball, Jim., (CW4) (M91) (Monk) 3159 Mallard Drive, Clarksville, TN 37042. Dy: (502) 798-6633. Res: (615) 431-4323. S. Linda. Dy: Systems Integration Ofc, 160th SOAR, Ft. Campbell. Rtg: SP. RW Qual. Time: 5,200 Hrs./Cbt 50 DFC/1.

Cruthers, Sean C., (CW2) (M87) B Co, 2-501st Avn Regt, Unit 15212, APO AP 96271-0148. Dy: 735-8964. Res: 011-42-333-691-1837. S. Son M. Rtg: SAA IP. RW Qual. Time: 3,000 Hrs./Cbt 150 AM/2. Life Member.

Cryer, Robbie L., (CW4) (M87) 53 Savoy Drive, Lake St Louis, MO 63367. Dy: (314) 263-3232. Res: (314) 625-4152. S. Juliet. Dy: Systems Mgr, AVSCOM, St. Louis. Rtg: MAA TP. RW Qual. Time: 4,000 Hrs./Cbt 500 AM/7.

Curtis, Scotty G., (W01) (M91) (Scotty) 55 Thorne

Street, Fort Rucker, AL 36362. Dy: (205) 255-6646. Res: (205) 598-1921. S. Stacey. Dy: D Co, 1-13th Avn. RW Qual. Time: 200 Hrs.

Cuthbert, Walter K., (CW3) (M90) (Walt) 5465A Montee Court, Fort Polk, LA 71459. Dy: (318) 531-2627. Res: (318) 537-3320. S. Bettye. Dy: F Co, 5th Avn, Fort Polk, LA. Rtg: MTP. RW Qual. Time: 1,500 Hrs.

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Dahlstrom, David B., (CW4) (M83) 207th Aviation Company, Box 46, APO New York 09102. S. Donna. Dy: C12 IP/Examiner, 207th Avn Co. Rtg: SAA SP IFE. RW Qual. Time: 6,500 Hrs. Past Treas, Checkpoint Charlie Chapter.

Dutton, Alan F., (CW2) (M89) P.O. Box 13367, Fort Carson, CO 80913. Dy: EH-60 Pilot, D Co, 4th CAB. RW Qual. Time: 700 Hrs.

Daniel, Butch., (CW4) (M89) 304 Natchez Road, Enterprise, AL 36330. Dy: 966-3771-0111. S. Sandy. Dy: Safety Ofcr, Avn Talt II, King Khalid Mil City, Hater Al Batin. Rtg: SAA IP. RW Qual. Time: 3,000 Hrs.

Danielson, Suzanne C., (CW2) (M86) P.O. Box 3489, Incline Village, NV 89450-3489. Res: (702) 831-2125. Dy: UH-60 Aviator, C Co, 6-159th Avn. RW Qual. Time: 650 Hrs./Cbt 110 AM/1.

Devere, David., (CW3) (M89) P.O. Box 2187, Fort Campbell, KY 42223. Dy: (502) 798-5669. Res: (615) 553-0414. Dy: Flight Pz Ldr, B Co, 4th BN, 101st Avn Regt, Ft. Campbell. Rtg: SAA. RW Qual. Time: 1,600 Hrs.

Davidson, Stephen L., (MW4) (M87) (Boomer) 609 Willow Oaks, Ozark, AL 36360. Res: (205) 774-4405. S. Connie. Rtg: MAA SP. RW Qual. Time: 9,000 Hrs./Cbt 1,995 DFC/2, AM/56. Life Member. Past SVP, Schwabach Hall Chapter.

Davis, Joseph M., (CW2) (M90) (Joe) 1681 Ponderosa Pine Dr. E, Jacksonville, FL 32225. Dy: (904) 641-8377. Res: (904) 221-0250. S. Tert. Dy: Act Maint Tech, Co, A-111th Avn. Rtg: MTP. RW Qual. Time: 1,575 Hrs. VP, America's First Coast Chap.

Day, Jeffrey A., (W01) (M91) (J.D.) Box 83, Forrest, IL 61741. Dy: Army Aviator, Korea, 2D. RW Qual. Time: 179 Hrs.

Day, Ralph W., (CW2) (M88) (Bud) A Company, 217 Avn Regt, P.O. Box 3323, APO New York 09250. Dy: 4672-175. Res: 08623-6661. S. Moody. Dy: AH-64 Pilot, Ansbach, Germany. RW Qual. Time: 1,800 Hrs./Cbt 40 AM/2.

Delavega, Darryn S., (WOC) (M91) (Primo) CMR 2, Box C-12048, Fort Rucker, AL 36362. Dy: (205) 255-6691. Res: (205) 255-6691. Time: 90 Hrs.

DeLo, Paul K., (CW3) (M91) (Skip) 101 Panawee Drive, Enterprise, AL 36330. Dy: (205) 255-3736. Res: (205) 393-2185. S. Teresa. Dy: Battalion Standardization Pz, 1-14th. Rtg: SP. RW Qual. Time: 2,800 Hrs.

Dennis, Donald W., (CW4) (M83) (Don) 109 Solet, Ozark, AL 36360. Dy: (205) 255-2492. S. Card. Dy: Section Ldr, (PIFE). Rtg: AA IP. RW Qual. Time: 4,000 Hrs./Cbt 800 AM/32.

Denny, Scott., (CW2) (M91) 2029 Cameron Court, Bartow, CA 92311. Dy: (619) 386-3285. Res: 252-1992. S. Susan. Dy: UH60 SP, 247th Med Det, Ft. Irwin, CA. Rtg: SP. RW Qual. Time: 2,000 Hrs.

Despres, Brendon J., (CW3) (M83) (Tiny) 413 Ramona Drive, Leesville, LA 71448. Res: (318) 532-0855. S. Cynthia. Dy: Maint. Test Pilot, D Co, 2122 Avn Regt. Rtg: AA TP. RW Qual. Time: 2,000 Hrs. Life Member.

Dessinger, Michael D., (WOC) (M91) 100 AM Wndham Drive, Apt. 401, Daleville, AL 36322. Dy: (205) 255-6591. Res: (205) 588-4551. S: Tonia L. Dy: B/1-145th.

Detelsen, Kevin M., (CW2P) (M89) (Leopard) 7345 Songbird Drive, Colorado Springs, CO 80911. S: Mary Ellen. Dy: 1-4 Avn Regt. Fort Carson. Rgt: SAA IP. RW Qual. Time: 1,650 Hrs.

Doster, Stephen H., (CW4) (M81) (Steve) 2809 NE Belaire Circle, Lawton, OK 73507. Dy: (405) 351-3714. Res: (405) 248-5610. S: Kathy. Dy: RW SP. IE Standards Off, OPTM Avn USAFACPS. Ft. Sil. Rgt: MAA SIP IFE. RW Qual. Time: 6,000 Hrs.

Diaz, Miguel A., (W01) (M91) (Mig) 207 Westlawn Avenue, No. 6584, Waterbury, NY 13601-5809. Dy: (315) 772-4586. Res: (315) 785-9027. S: Norman. Dy: Army Aviator, C Co, 3-25th AHB, Fort Drum. RW Qual. Time: 200 Hrs.

Dicker, Charles P., (CW2) (M86) (Chuck) 135 Inglewood Drive, Fayetteville, NC 28303. Dy: (919) 396-6583. Res: (919) 867-5918. S: Judy. Dy: A Co, 1-82 Avn Bde, Ft. Bragg. Rgt: AA MTP. RW Qual. Time: 500 Hrs./Cdt 80 AM2.

Dickson, Richard E., (CW4) (M88) (Rick) Route 6, Box 4619, Gloucester, VA 23061. Dy: (804) 878-2650. Res: (804) 694-0394. Dy: AH-1 Act Maint Section Ldr, DPTMSEC, Ft. Eustis. Rgt: SAA MTP. RW Qual. Time: 3,200 Hrs.

Dionne, Roger P., (W01) (M89) (Page) 2051-8 Werner Park, Fort Campbell, KY 42223-5000. Dy: (615) 796-4899. S: Deanna. Dy: UH-1 Pilot, C Co, 6-101st Avn Regt. Rgt: Rgt. Time: 350 Hrs./Cdt 42 AM1.

Dobrowski, Alan D., (CW3) (M90) 56th Aviation Company, Box 151, APO New York 09028. Dy: 382-4492. Res: 06241-83524. S: Sara. Dy: Act Maint Tech, Manheim Ger. Rgt: SAA MTP. RW Qual. Time: 1,700 Hrs.

Dodson, Anthony R., (W01) (M81) (Tony) 15 Carey Street, Fort Rucker, AL 36362. Dy: (205) 255-6641. Res: (205) 588-3156. S: Michelle. Dy: D/1-13th Avn. RW Qual. Time: 160 Hrs.

Donahe, Kenneth A., (CW4) (M71) (Doc) 6814 Rose Street, Fort Hood, TX 76544. Dy: (817) 287-8137. Res: (817) 539-2000. S: Carmen. Dy: AH-64SP (Weapons Tech), Apache Tng Bde, Rgt: MAA SIP. RW Qual. Time: 5,000 Hrs./Cdt 150 OFC, AM5. Life Member. Past Treas, Redcatcher Chap.

Dorminy, Anthony K., (WOC) (M91) 107 Karen Court, Ozark, AL 36360-3322. Dy: (205) 255-4006. Res: (205) 774-0866. S: Carol. Dy: B/1-145th, Fort Rucker.

Dottner, Jack H., (CW4) (M76) (Jack) 622 Paddy Run Road, Clarksville, TN 37042. Dy: (502) 798-5571. S: Pat. Dy: HQ, 160th SOAR, Fort Campbell. Rgt: MAA TP. Time: 5,500 Hrs./Cdt 1,021

Dougherty, John R., (MW4) (M75) 7640 Kingsbury Road, Alexandria, VA 22310. Dy: (703) 325-7844. Res: (703) 971-8033. S: Grace. Dy: Command Safety Officer, Dawson Avn Cmd. Rgt: MAA. RW Qual. FW Qual. Time: 4,500 Hrs./Cdt 800 AM16.

Doyle, Timothy C., (W01) (M88) (T.C.) 102 Greenleaf Court, Clarksville, TN 37042. Dy: (502) 798-3266. Res: (515) 648-6772. Dy: Pilot-AH-1. RW Qual. FW Qual. Time: 650 Hrs./Cdt 45

Duffney, Robert J., (CW2) (M88) (Duff) P.O. Box 2477, Fort Campbell, KY 42223. S: Frances Mar. Dy: B Co, 2-101st, Fort Campbell. Rgt: AA. RW Qual. Time: 450 Hrs./Cdt 10

Dyer, Steven G., (CW2) (M89) (Boy Wonder) S. York, 422 ACR, Box 329, APO New York 09032-0216. S: Erika. Dy: Pilot, S Troop, 42 ACR. RW Qual. FW Qual. Time: 500 Hrs./Cdt 40

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Aviation Warrant Officer Directory

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Eberly, David A., (CW4) (M90) (Isaman) HHC 7th ATC, Box 3333, APO New York 09114. Dy: 475-8331. Res: 011-096411-3787. S: Barbara. Dy: Instructor Pilot, Rgt: S P. RW Qual. Time: 6,300.

Eddy, Gary D., (CW4) (M65) 1817 Ruby, Eau Claire, WI 54703. Dy: (608) 246-5980. Res: (715) 834-8224. S: Sookie. Dy: Supply Mgmt Tech, 32d Inf Bde, Rgt: AA. RW Qual. Time: 1,650 Hrs./Cdt 430 AM13.

Edgard, David., (CW4) (M91) 412 Eufaula Street, Ozark, AL 36360. Dy: (205) 255-2042. Res: 714-0638. Dy: Pilot, 1-212th AVN (ATB) AL, SMO, ATB.

Ehrle, Douglas E., (W01) (M89) P.O. Box 5637, Fort Hood, TX 76544. Dy: (817) 288-3656. Res: (817) 532-5178. S: Michelle. Dy: B Co, 1-5 Avn. Rgt: HHC. RW Qual. Time: 575 Hrs.

Elkins, Glenn C., (W01) (M89) P.O. Box 774, Killeen, TX 76540-0774. Dy: (817) 288-5332. Res: (817) 532-5539. S: Brenda. Dy: A/4th Pilot, B/1-5 Avn. RW Qual. FW Qual. Time: 500 Hrs.

Elliot, Joseph P., (CW2) (M86) 7639 Highland Woods Court, Apt. B-1, London, VA 22079. Dy: (703) 664-4073. Res: (703) 339-2464. Dy: RW PAT USAODC, Fort Belvoir. Rgt: AA. RW Qual. Time: 1,400 Hrs. Past Sec, Stuttgart Chapter.

Elliot, Kenneth E., (CW4) (M81) (Ken) 1444 Guster Lane, Enterprise, AL 36330. Dy: (904) 255-4846. Res: (904) 347-7984. S: Donna. Dy: OH-58 A/C Flight Instructor, Rgt: MAA IP. RW Qual. Time: 3,000 Hrs./Cdt 750 AM23.

Englund, Robert K., (CW3) (M83) (Bob) 815 East Lee Street, Apt. 50, Enterprise, AL 36330. S: Pam. Dy: 224 MI BN, Hunter AAF. Rgt: SAA SIP. RW Qual. FW Qual. Time: 2,600 Hrs.

Ennis, Terry B., (CW3) (M91) 502 Dartmouth Drive, No. 204, Newport News, VA 23602. Dy: (804) 879-3266. Res: (804) 874-8668. Dy: Standardization Instructor Pilot, 1st S&F (DOES), Fort Eustis. Rgt: SIP MTP. RW Qual. FW Qual. Time: 3,100 Hrs.

Ernst, Craig A., (CW3) (M87) C Company, 2-227th Attack Battalion, APO New York 09165. S: Lorraine. Dy: AH-64 Pilstrumt Ex Examiner, Hanau, Germany. Rgt: AA IP. RW Qual. Time: 2,000 Hrs./Cdt 80 AM1/TV, 2 Bronze Stars/V.

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Fagan, Jeffery G., (CW2P) (M88) 2038 North Drive, Copperas Cove, TX 76522. Dy: (817) 288-1412. Res: (817) 542-2017. S: Sigrid. Dy: AH-64 Maint Test Pilot, A Co, 1-227 Avn Regt. Rgt: MTP. RW Qual. Time: 1,675 Hrs./Cdt 4

Fagan, Terry J., (W01) (M91) (T.J.) CMR 2, Box 13358, Fort Rucker, AL 36362. Dy: 205-4711. Res: (205) 255-6539. Dy: TAC Officer, A Co, 1-145th Avn Regt, UH-1A/H-1 Pilot. RW Qual. Time: 350.

Fairfax, Andrew P., (CW2) (M88) C Co, 3-4 Aviation Regt, APO New York 09185. S: Karen. Dy: Cobra Pilot. RW Qual. Time: 500 Hrs.

Fegreus, Richard R. Jr., (CW4) (M80) (Dick) P.O. Box 53429, Fort Benning, GA 31905. Dy: (404)

545-2303. Res: (404) 682-1684. Dy: IP (Fixed Wing), DPTM Avn Div, Fort Benning. Rgt: MAA SIP. Time: 9,400 Hrs./Cdt 1,700 AM35.

Felix, Stanley P., (CW4) (M82) (Stan) 419A Lacey Place, Fort Belvoir, VA 22060. Dy: (301) 981-7887. Res: (703) 360-8849. S: Jeanette. Dy: USAPAT DET, Andrews AFB. Rgt: MAA SIP. RW Qual. FW Qual. Time: 6,330 Hrs.

Feltmate, Reid D., (CW4) (M85) (Torpedo) Route 1, Box 122, Kemper, TX 76538. Dy: (817) 287-7973. Res: (817) 547-4912. S: Elizabeth. Dy: SIP, Bth CBAC, Fort Hood. Rgt: MAA SIP. RW Qual. Time: 6,400 Hrs./Cdt 1,650 AM52. VP, Phantom Corps Chapter, Past Sec, Thunderbolt Chapter.

Fessler, Daniel A., (W01) (M91) 3302 Shady Valley Drive, Manhattan, KS 66502. Dy: (206) 239-6651. Res: (206) 539-7030. S: Cheryl. Dy: EH-60 Pilot, Fort Riley. RW Qual. Time: 300 Hrs./Cdt 85 AM1.

Filmer, David P., (CW3) (M87) C Company, 2nd MI Bn, Box 94, APO New York 09359. Dy: 421-4150. S: Dorothy. Dy: Production Control 09/0V1 MTP. Rgt: MTP. RW Qual. FW Qual. Time: 1,500 Hrs. AM1.

Finocchio, Albert J., (CW4) (M82) (Pete) PSC Box 1809, APO Miami 34004. Dy: 507-001-287-5003. S: Irma. Dy: USARSO Avn Standardization Off, Fort Clayton, Panama. Rgt: SAA SIP IFE. RW Qual. Time: 5,200 Hrs.

Fitzgerald, George T., (CW2) (M89) (Tom) PSC 02, Box 2296, APO AA 34002-5000. Dy: 268-3258. S: Army. Dy: UH-1 Maintenance Test Pilot, Rgt: AA MTP. RW Qual. Time: 1,350 Hrs.

Fladry, Robert R., (CW4) (M75) 702 River Bend Drive, Clarksville, TN 37043. Dy: (502) 798-5789. Res: (615) 358-3521. S: Sandra. Dy: SIP HHC, 1/160th SOAR, Ft. Campbell. Rgt: MAA SIP TP. RW Qual. Time: 6,500 Hrs./Cdt 800 OFC1, AM10.

Flankey, Steven F., (CW3) (M83) 7229 Shady Grove Lane, Fayetteville, NC 28314. Dy: (919) 350-4100. Res: (919) 868-2111. S: Laurie. Dy: B Co, 1 Bn (ATK), 82 Avn Regt, Ft. Bragg. Rgt: SAA IP. RW Qual. Time: 3,000 Hrs./Cdt 75 AM2.

Foe, Daniel H., (CW4) (M82) (Dan) 4403 Hildise Court, Alexandria, VA 22306. Dy: (703) 664-2019. Res: (703) 765-5687. S: Debbie. Dy: RW PAT, DIA, Fort Belvoir. Rgt: MAA IFE. RW Qual. FW Qual. Time: 8,950 Hrs./Cdt 1,300 AM27.

Forman, Charles B., (W01) (M89) 20568 Werner, Fort Campbell, KY 42223. Dy: (502) 798-6308. Res: (615) 431-4029. S: Lisa. Dy: HHC, 1/160th SOAR. RW Qual. Time: 600 Hrs./Cdt 50 AM2.

Forshey, Marshall R., (CW2) (M91) (Ray) C Co, 2/2nd Avn. Regt, APO San Francisco 96324-0483. S: Gloria. Dy: Pilot, Korea. Rgt: MTP. RW Qual. Time: 1,700 Hrs.

Fortune, Thomas H., (CW2) (M83) (HB) 17 End Avenue, Fort Rucker, AL 36362. Dy: (205) 255-6008. Res: (205) 588-5237. S: Cynthia. Dy: AH-1 IP, A Co, 1-14 Avn. Rgt: SAA IP. RW Qual. Time: 2,000 Hrs.

Fraher, Jeffrey R., (W01) (M90) 106 Rose Lane, Apt. D, Rome, NY 13440-3638. Dy: (315) 330-7012. Res: (315) 336-3718. S: Tamara. Dy: OH-58 Pilot B/2-25, ATK Bn 10th Mountain. RW Qual. Time: 300 Hrs.

Freder, Timothy D., (CW2) (M89) 404 Country Club Lane, Hopkinsville, KY 42240. Dy: (502) 798-7442. Res: (502) 885-4973. S: Debbie. Dy: CH-47 Pilot, Fort Campbell. RW Qual. Time: 745 Hrs.

Freitas, William L., (CW3) (M89) (Bill) 94-549 Keskilani Street, Apt. 1041, Milani, HI 96789. Dy: (808) 656-1266. Res: (808) 623-1520. S: Kyoung.

Dy: Bn Avn Safety Off, 425 Avn Regt. Rtg: SAA. RW Qual. Time: 2,500 Hrs.

Frey, Josef W.H., (CW4) (M85) (Joe) 5885 South Quail Street, Littleton, CO 80127-1946. Dy: (303) 340-9846. Res: (303) 973-4439. S: Bonnie. Dy: C, 1/131st Avn, Eagle, CO. Rtg: MAA SIP. RW Qual. Time: 10,000 Hrs./Cbt 910 Life Member.

Frost, Ernest W., (CW3) (M83) (Bill) 139 Seler, Fort Bragg, NC 28307. Dy: (919) 396-6285. Res: (919) 668-8804. S: Suzie. Dy: Pilot, UH60-60, C2-82 Avn Bde, Ft Bragg, Rg: SAA IP. RW Qual. Time: 3,600 Hrs./Cbt 34 AM/1.

Frye, Jerry W., (CW2) (M88) (Jodie) Route 1, Box 1134, Kemper, TX 76539. Dy: (817) 288-3534. Res: (817) 542-6876. Dy: AH-64 Pilot, Avn Safety Off, A Co, 3-3 Avn Regt. Rtg: AA. RW Qual. Time: 640 Hrs.

Fuller, Gary L., (CW3) (M80) 2036 B Werner Park, Fort Campbell, KY 42223. S: Denise. Dy: HHC 160th SOAR. Rtg: AA P. RW Qual. Time: 3,700.

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Galney, Michael D., (CW3) (M89) (Gadget) 200 Hayes Circle, Fort Ord, CA 93941. Dy: (408) 242-7946. Res: (408) 863-0800. S: Sara. Dy: Maint Tech-UH60, B Co, 3/123rd Avn Regt. Rtg: MTP. RW Qual. Time: 1,900 Hrs.

Gant, Randall G., (CW2) (M89) (Randy) H Company, 227th Aviation, APO New York 09165. Dy: (202) 322-7729. Res: 06183-5990. S: Carrie. Dy: H Co, 7-227 Avn, Hanau, GE. RW Qual. Time: 900 Hrs./Cbt 70 AM/1.

Gamer, Roger K., (CW3) (M86) 37 East Harris Drive, Fort Rucker, AL 36362-5000. Dy: (205) 255-5708. Res: (205) 598-6360. S: Jana. Dy: Sr TAC Officer, B Co, 1-145th. Rtg: SAA. RW Qual. Time: 2,000 Hrs. VP, Army Avn Center Chapter, Past VP, Aloha Chapter.

Gatwood, Kenneth R., (CW2) (M89) (Ken) 5657-1 Bobby Street, Fort Hood, TX 76644. Dy: (817) 287-6823. Res: (817) 539-6645. S: Shelly. Dy: 175 Cbt, 6th Cav Bde, Fort Hood, Rtg: AA. RW Qual. Time: 850 Hrs./Cbt 62 AM/1.

Genaille, Robert S., (CW3) (M86) (Scott) C Company, 2-227th Avn, APO New York 09165. S: Sharon. Dy: ASD, C Co, 2-227th Avn, 34D Ger. Rtg: SAA. RW Qual. Time: 1,400 Hrs./Cbt 27 AM/2.

George, Warren D., (MW4) (M65) Route 7, Box 310, Springfield, MO 65802. Res: (417) 866-6412. S: Nancy. Dy: SIP/FE, R. Leonard Wood. Rtg: MAA SIP. RW Qual. Time: 12,958 Hrs./Cbt 2,118 AM/5.

Gerner, Ronald W., (MW4) (M88) (RG) HSC 3d MI BN, Unit 15220, Box 622, APO AF 96271-0156. Dy: 753-6237. Res: (817) 547-1247. S: Nancy. Dy: Bn Safety Officer, 3d MI BN, Camp Humphreys, Korea. Rtg: MAA IP. RW Qual. Time: 5,132 Hrs./Cbt 1,680 DFC1, AM/4.

Giffin, Robert P., (CW4) (M89) (Bob) 104 Yvonne Drive, Enterprise, AL 36330-5000. Dy: (205) 255-4512. Res: (205) 380-3849. S: Marty. Dy: ASD, HQ ATB. Rtg: MAA IP. RW Qual. Time: 12,958 Hrs./Cbt 4,600 Hrs./Cbt 600 DFC, AM/5.

Giganti, Raymond G., (CW2) (M84) (Nick) HSC, 751st MI Bn, APO San Francisco 96271. Dy: 011-82-333-690-6440. Res: 011-82-333-690-3168. S: Diane. Dy: SIP. Rtg: SAA SIP. RW Qual. Time: 2,650 Hrs.

Gjertsen, Douglas W., (CW4) (M89) 1207 Hawk Trail, Copperas Cove, TX 76522. Dy: (817) 287-8236. Res: (817) 547-1861. S: Susan. Dy: III Corps Avn Warrant Assignments Officer. Rtg: SIP.

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Aviation Warrant Officer Directory

RW Qual. Time: 5,000 Hrs./Cbt 1,013 DFC1, AM/36.

Godfrey, Allen R., (CW2) (M88) (Randy) 385 Coronado Drive, Punta Gorda, FL 33950. S: Deborah. Dy: OH-580 Pilot, Fort Bragg. Rtg: AA. RW Qual. Time: 580 Hrs.

Goodall, Gregory A., (CW3) (M85) (Greg) G Company, 227th Aviation, Box 58, APO New York 09165. Dy: 322-7486. S: Elizabeth. Dy: 34D Quickie, Hanau, Rtg: SAA IP. RW Qual. Time: 2,100 Hrs./Cbt 70 AM/1.

Gore, Adam F., (WO1) (M89) (A-Man) 800 Quaco Road, Lot 242, Savannah, GA 31419. Dy: (912) 352-6203. Res: (912) 921-0758. S: Sandra. Dy: A Co, 3/24 Avn Regt, Hunter AAF, Savannah. RW Qual. Time: 300 Hrs./Cbt 140 AM/1.

Gorham, Thomas A. Jr., (CW4) (M80) (Tom) I Company, 3rd Aviation Regiment, APO New York 09182-5000. Dy: 011-49-9334-67-353. S: Mary Anne. Dy: Armt Plt Ldr, Giebelstadt Army Airfield. Rtg: AA. Past VP, Wings Of The Marine Chapter.

Gorum, Alton D., (CW4) (M91) 104 Candlewood Drive, Enterprise, AL 36330. Res: (205) 347-4009. S: Margaret. Dy: D Co, 1-212th Avn, Ft. Rucker, AL 36362. Rtg: IFE SIP IP. RW Qual. Time: 5,000.

Gourley, Brent H., (CW4) (M91) 910 Canterbury Drive, Dothan, AL 36031. Dy: (205) 255-4282. Res: (205) 792-0354. S: Jenni. Dy: Student Management Officer, 1-223 (Cairns). Rtg: MAA IP. RW Qual. Time: 7,100 Hrs./Cbt 900 DFC, AM/23.

Graham, Charles R., (CW2) (M88) 6539 S.W. Zirc Drive, Apt. 77, Tacoma, WA 98409-5112. Dy: (206) 967-2970. Res: (206) 584-4818. Dy: Chinook, C-214 Avn Regt.

Gratto, Timothy C., (CW3) (M83) (Tim) 426 Magnolia Drive, MacDill AFB, FL 33621. Dy: (813) 830-2808. S: Debbie. Dy: Army Avn Spt Element U.S. Spec Ops Cnd, MacDill AFB. Rtg: SAA IP. RW Qual. Time: 2,300 Hrs./Cbt 21 AM/1.

Graves, Stanley H., (MW4) (M78) 107 West Ridge Court, Daleville, AL 36322. Dy: (205) 255-8008. Res: (205) 598-3568. S: Jean. Dy: Project Test Pilot, USAF/AVC Technical. Rtg: MAA IFE SIP TP. RW Qual. Time: 10,075 Hrs./Cbt 1,200 AM/33.

Gray, Michael G., (WO1) (M88) (P) Box 1954, Helendale, CA 92342-1954. Dy: (619) 386-3086. S: Christa. Dy: C Co, 3-159th Avn Regt, Ft. Irwin. RW Qual. Time: 615 Hrs.

Graylock, Lewis E., (CW3) (M87) (Hawk) 111 Blackhawk Drive, Daleville, AL 36322. Dy: (205) 255-5033. Res: (205) 598-4851. S: Carol. Dy: C1-14th. Rtg: S. RW Qual. Time: 3,000 Hrs.

Greene, John C., (CW3) (M79) C Co, MI Bn (L), 3415 4th Street, Orlando, FL 32827-5309. Dy: (407) 623-3552. S: Gunda. Rtg: SAA IP. RW Qual. Time: 2,350 Hrs./Cbt 79.

Gregorich, Henry J., (CW2) (M85) (Hank) G Co, 4th Avn Regt, Box 125, APO New York 09111. S: Brenda. Dy: Maint TP UH-1, Bad Neuenahr, Germany. Rtg: AA TP. RW Qual. Time: 1,500 Hrs.

Gribenski, Arthur J., (CW2) (M89) (Art) A Co, 3227th AB, CAB, APO New York 09165. Dy: 322-7459. Res: 06181-54977. S: Jean A. Dy: Alk Hcpr Pilot, AH-64, Rtg: AA. RW Qual. Time: 800 Hrs. VP, Hanau Chapter.

Griffin, Richard D., (WO1) (M91) (Styles) CMR 2, Box C-12214, Fort Rucker, AL 36362-5096. Dy: (205) 255-6591. Res: (205) 255-6591. Dy: B Co, 1-145th Avn. Time: 138 Hrs.

Gronick, Robert L., (WO1) (M87) (Goose) 19 Vera Circle, Daleville, AL 36322. Dy: 255-6007. Res: (205) 91-3815. S: Denise. Dy: B1-145th. Time: 50.

Grubb, William W., (CW4) (M82) (Rusty) 78th Aviation Bn (PROV), Unit 45007, Box 17, APO AF 96343. Dy: 233-4581. Res: 233-6489. S: Tommy. Dy: Quality Control/Tech Supply Off, Camp Zama, Japan. Rtg: SAA MTP. RW Qual. Time: 2,500 Hrs.

Grubelic, Brian T., (CW2) (M91) 100 AM Windham Drive, Apt. 708, Daleville, AL 36322-2052. Dy: (205) 255-5687. Res: (205) 598-3757. Dy: Instructor Pilot, A Co, 1-14 Avn Regt. Rtg: IP. RW Qual. Time: 1,000 Hrs.

Gruenewald, Thomas E., (CW3) (M91) (Pook Bear) P.O. Box 93, Daleville, AL 36322. Dy: (205) 255-6056. Res: (205) 393-0409. Dy: C Co, 1/223 Avn Regt. Rtg: IP. RW Qual. Time: 3,900 Hrs.

Guerrero, Ramiro V., (CW3) (M87) 14 Division Paces, Fort Rucker, AL 36362. Dy: (205) 255-5223. Res: (205) 598-6719. S: Virginia. Dy: UH-60 IP, C1-223rd. Rtg: SIP. RW Qual. Time: 3,000 Cbt 100.

Guffy, Wayne S. Jr., (CW4) (M72) 2312 NE 9th Street, Lawton, OK 73507-1801. Dy: (405) 351-3714. Res: (405) 353-7494. S: Karen. Dy: Avn Div, DPTM, FL, Sil. Rtg: MAA IP. RW Qual. Time: 8,677 Cbt 939 AM/35. Life Member.

Gulick, Scott R., (CW2) (M87) (Rof) 5 AG Regt. Det., Fort Polk, LA 71459. S: Kathryn. Dy: Giebelstadt AAF, Giebelstadt, Germany. Rtg: AA. RW Qual. Time: 1,050 Hrs.

Gutsche, Walter W., (CW4) (M85) (Walt) 8374 Gore Road, RR 6, Rome, NY 13440. Dy: (315) 330-7555. Res: (315) 339-0743. S: Janet. Rtg: MAA SIP IP. MTP. RW Qual. Time: 5,700 Hrs./Cbt 1,500 AM/45.

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Hacia, Joseph E., (WO1) (M90) 4916 Yaupon Circle, Surfside Beach, SC 29575. S: Donna Jo. Dy: 5th AG Replacement, Ft. Polk, LA. RW Qual. Time: 200 Hrs.

Hafkemeyer, Michael G., (CW3) (M81) HHC, 7th Bn 159th Avn Regt, Box 113, APO New York 09061. Dy: Bn Sfty Ofcr, Nellingen Bks Ger. Rtg: SAA. RW Qual.

Hall, Louis E., (CW4) (M84) (Chig) 211 Jordan Road, Clarksville, TN 37042-3333. Dy: (602) 798-2951. Dy: HSC, 1st Bn, 101st Avn Regt., Rtg: IFE SIP. RW Qual. Time: 0FC1, AM/11.

Hamilton, William L., (CW4) (M91) (Bill) 56th Aviation Company, Box 275, APO New York 09028. S: Gefinde. Dy: C12U21 Pilot, Coleman AAF. Rtg: MAA. RW Qual. Time: 2,900 Hrs.

Hammel, Paul D., (CW2) (M91) (Paul) 4905 Climbing Vine Place, Marietta, GA 30066. Dy: (404) 691-2500. Res: (404) 516-8851. S: Catherine. Dy: UH-1 Instructor Pilot, FORSCOM Flight Detachment. Rtg: IP. RW Qual. Time: 2,700 Hrs.

Hancock, James C., (CW3) (M89) (Jimmy) 1321 North Vista, Mesa, AZ 85207. Dy: (602) 891-3896. Res: (602) 641-1752. S: Teresa. Dy: Acceptance Test Pilot, MDHC, Mesa, AZ. Rtg: SAA MTP. RW Qual. Time: 2,800 Hrs./Cbt 32 AM/1.

Hanks, Tommy., (CW2) (M91) (Tommy) HQ, JUSMAG-K, P.O. Box 27, APO San Francisco

96302-0187. S. Sule. Dy. Maint. Officer/Main Test Pilot (for LH60). Rtg: MTP. RW Qual. Time: 2,000.

Hansen, Matthew E., (CW2) (M89) (Mutt) G Company, 227th Aviation, Box 27, APO New York 09166-0000. Dy: 322-7794. Res: 06184-50315. S. Linda. Dy: G Co, 227 Avn, Hansau, Germany. Rtg: AA IP. RW Qual. RW Qual. Time: 2,200 Hrs/Cbt 150 AM1.

Harbuck, Robert C., (CW2) (M89) (Carl) 5712 Friedman Street, Apt. 1, Fort Hood, TX 76544-1315. Dy: (817) 287-9832. Res: (817) 539-7633. S. Regina. Dy: B Tnp, 146 Cav, Fort Hood. Rtg: AA. RW Qual. Time: 450 Hrs.

Hardwick, J.M., Jr., (CW3) (M83) (Jim) P.O. Box 2283, 4th Brigade, 1st AD, APO New York 09250. S. Bonnie. Dy: G Co, 4th Avn Bde, 1st AD, Ger. Rtg: AA IP. RW Qual. Time: 2,600 Hrs/Cbt 80 AM1, IV.

Harlor, Donald R., (CW4) (M80) (D.R.) 713 Duncan St., Wahiawa, HI 96786. Dy: (808) 656-1324. Res: (808) 624-8226. S. Patti. Dy: Reed Wing Standardization Officer, Ft Br Avn Bde 25th D(L), Rtg: MAA IFE SIP MTP. RW Qual. Time: 7,200 Hrs/Cbt 1,500 AM26, TV.

Harper, Kevin L., (CW2) (M85) 11 Ames Lane, Fort Rucker, AL 36362. Dy: (205) 255-6008. Res: (205) 598-6087. S. Annette. Dy: Gunnery IP, A Co, 1/4th Avn, Rtg: AA IP. RW Qual. Time: 1,700.

Hamilton, Kent H., (CW3) (M82) (Hart) H Co, 4th Avn Regt., APO New York 09457. Dy: 049-611-261360. Res: (215) 836-4977. S. Marta. Dy: Mainz-Finthen, Germany. Rtg: SAA IP. RW Qual. Time: 3,200 Hrs.

Harris, Jeffrey W., (CW3) (M86) (Jeff) HHC 1-501st Sig Bn, Unit 15266, APO NY 96205-0039. S. Marilyn. RW Qual. Time: 2,000 Hrs/Cbt 93 AM1.

Hatley, Terry L., (CW3) (M88) B Co, 4/158th Avn, Bn, 31st, APO New York 09359. Dy: 0711-7294-170. Res: 0711-349-757. S. Linda. Dy: Hcpr Pilot, Rtg: SAA. RW Qual. Time: 2,100 Hrs/Cbt 60 AM1.

Hauensien, Alan D., (CW3) (M82) 740 Grimes Street, Wahiawa, HI 96786. Dy: (808) 656-2564. Res: (808) 624-5720. S. Denise. Dy: SIP, A Co, 4th/25th Avn Regt, 25th ID, Rtg: SAA SIP. RW Qual. Time: 3,000 Hrs.

Hawkins, Robert J., (CW4) (M71) (Bob) 111-B Gulkana Avenue, Fort Richardson, AK 99505. Dy: (907) 552-3337. Res: (907) 428-0685. S. Carol. Dy: Utility Airplane Detachment, Elmendorf AFB. Rtg: MAA IFE IP. RW Qual. RW Qual. Time: 7,000 Hrs/Cbt 1,150 Past Sec, Ozark Mountain Chapter.

Hayes, Kevin R., (CW2) (M80) 540 Wilma Avenue, Rock Hill, KY 40160-5000. Dy: (502) 264-6240. Res: (502) 351-2145. S. Christy. Dy: Standardization Officer, G-3, DPTM Avn Div. Rtg: IFE SIP. RW Qual. Time: 2,200 Hrs.

Hayes, Melvin D., (CW2) (M90) (Doug) B Co, 7/159 Avn Regt., P.O. Box 363, APO New York 09061.

Haynes, Gregory J., (CW2) (M90) (Gus) 613 Kirby Drive, Clarksville, TN 37042. Dy: (615) 739-5540. Res: (615) 553-8205. S. Kathy. Dy: A Co, 1/160th SODAR (A8N), Fort Campbell. RW Qual. Time: 1,800 Hrs.

Haynie, Kenneth W., (CW3) (M90) N Troop, 4/2 ACR, Bn 245, APO New York 09092. S. Lee. Dy: AH-1 IPIFE. Rtg: SAA IFE IP. RW Qual. Time: 1,950 Hrs/Cbt 40.

Hazelrigg, Danny R., (CW2) (M83) (Dan) 4913-2 Forest Avenue, Fort Riley, KS 66442. S. Kathy. Dy: Avn Maint Tech, F Co, 1st Avn, Fort Riley. Time: 250 Hrs/Cbt 150 AM3.



Aviation Warrant Officer Directory

Hazelton, Frank B., (WO1) (M89) 204 Rendova Road, Fort Ord, CA 93941. Dy: (408) 242-4460. Res: (408) 384-0205. S. Kim. Dy: AH-1 Pilot, B Troop, 29th Cavalry. RW Qual. Time: 400 Hrs.

Hazen, Theodore W., (CW2) (M91) (Ted) 2012 Meadowbrook Drive, Killeen, TX 76543. Dy: (817) 287-8353. Res: (817) 690-5644. S. Felicia. Dy: A Co, 146 Cav. Rtg: SAA. RW Qual. Time: 2,000 Hrs.

Hedgcock, Walter D., (CW2) (M85) (Walt) 818 Ringold Street, Wahiawa, HI 96786. Dy: (808) 656-1210. Res: (808) 624-2237. S. Dawn. Dy: P Co, 4/25 Avn Regt. Rtg: AA IP. RW Qual. Time: 1,900 Hrs.

Hegland, Dennis A., (CW4) (M87) (Denny) 216 Miner Drive, Richmond Hill, CA 91324. Dy: (912) 352-9632. Res: (912) 756-4517. S. Karen. Dy: Standation IP, A Co, 224th MI Bn(AE), Hunter Army Airfield. Rtg: MAA IFE SIP MTP. RW Qual. RW Qual. Time: 6,800 Hrs/Cbt 650.

Helson, David E., (MW4) (M73) (Dave) HQ 8th PERSCOM, ATTN: EAPC-RD, APO San Francisco 96301-8924. Dy: 724-8924. S. Betty. Dy: ANA Avn Branch Asst, HQS 8th Army, Yongsan, Korea. Rtg: MAA IP TP. Time: 4,500 Hrs/Cbt 1,960 DCO71, AM47, Past NEB.

Helson, James R., (CW4) (M78) (Jim) Headquarters Command, Right Detachment, APO New York 09055. Dy: 361-5644. Res: 032-6519614. S. Vicki. Dy: IFE Ops OIC, SACBUB R Det, SHAPE Belgium. Rtg: SAA SIP IFE. RW Qual. Time: 4,200 Hrs. Past S/VP, Thunderhorse Chapter.

Helus, Donald J., (WO1) (M91) 200 Edith Way, Davisville, AL 36322. Dy: (205) 255-6641. Res: (205) 598-2646. S. Tina Marie. Dy: A Co, 1-13th Avn, Rtg: Fort Rucker. Rtg: AA. RW Qual. Time: 160.

Hendley, James H., (CW4) (M83) (Jim) 17th Aviation Brigade, ELUSA Avn. Off. Unit 15270, APO AP 96301-0009. Dy: 723-3606. S. Jennifer. Dy: 8th Army Rtr Standardization, NVG SIF/FE, EACJEA. Rtg: AA IFE IP SIP. RW Qual. Time: 4,200 Hrs.

Henry, Leslie S., (WO1) (M89) (Buzzard) 236th Medical Company (AA), Box 470, APO New York 09180. Dy: 49-16731-43279. Res: 49-6371-666331. S. Carol. Dy: RW Aviator, Landstuhl AHP, Ger. RW Qual. Time: 420 Hrs. AM1.

Henry, Ronald L., (CW2) (M88) (Steath) 1160A Lester Road, Fort Sill, OK 73503. Dy: (405) 351-5807. Res: (405) 353-5350. S. Gwendolen. Dy: CH-47 Pilot, 2A/2-158 Avn Regt. Rtg: AA. RW Qual. Time: 825 Hrs/Cbt 80 AM1.

Hernandez, Anthony A., (CW3) (M87) (Tony) 94-665 Northside Place, Wahiawa, HI 96797-4147. Dy: (808) 656-1220. Res: (808) 676-2432. S. Phil. Dy: LH-60 MTR/MEOC Officer, D Co, 4/25 Avn Regt, Schofield Barracks. Rtg: SAA. RW Qual. Time: 1,400 Hrs.

Hermick, Carl G., (WO1) (M91) 10 Edwards, Fort Rucker, AL 36362. Res: (205) 588-1359. S. Rebecca. Dy: 2/377th Med Co (AA), 43rd MASH, Korea. RW Qual. Time: 30 Hrs.

Hermick, Paul A., (CW4) (M64) 1629 Boardwalk Avenue, Florissant, MO 63031. Dy: (618) 256-3579. Res: (314) 639-3096. Dy: OSA Cmd Pilot, Scott AFB, IL. Rtg: IP MAA. RW Qual. RW Qual. Time: 11,650 Hrs/Cbt 930.

Hill, Robert D., (MW4) (M79) (Bob) 6917

Candlewood Drive, Fayetteville, NC 28314. Dy: (919) 432-3363. S. Lei. Dy: Avn Flight Standards, HHC, 82 Avn Bde, Ft Bragg. Rtg: MAA IFE SIP. RW Qual. Time: 7,000 Hrs/Cbt 1,200.

Hill, William F., (CW3) (M88) (Bill) 21122 Malibu Colony, San Antonio, TX 78259. Dy: (512) 221-2415. Res: (512) 497-7417. S. Carol. Dy: 5th U.S. Army CART Team, Fort Sam Houston. Rtg: SAA IFE SIP IP. RW Qual. Time: 2,800 Hrs/Cbt 50

Hiltner, John A., (CW2) (M87) 5416-B Fournet Court, Fort Polk, LA 71459-3432. Dy: (318) 531-1866. Res: (318) 537-8205. S. Leslie. Dy: UH-1H Instructor Pilot, F Co, 3/5 Avn Bn, Fort Polk. Rtg: AA IP. RW Qual. Time: 1,400 Hrs.

Hirschhorn, Archer D., (WO1) (M90) 4024 West Meadow Drive, No. 101, Colorado Springs, CO 80906. Dy: (719) 576-2547. RW Qual. Time: 200.

Hobbs, Rudolph V., (CW3) (M80) (Rudy) P. O. Box 511, Fort Rucker, AL 36362. Dy: (205) 255-2600. Res: (205) 393-2665. S. Jacqueline. Dy: Command Pilot for CG, USAVANC, Rtg: AA IFE AW RW Qual. Time: 4,220 Hrs. DFC71, AAAA Leich Award 90.

Hohbach, Brent K., (CW2) (M90) 1051-7 Gateway Road, Fort Wainwright, AK 99703. Dy: (907) 353-0664. Res: (907) 356-1558. S. Carol. Dy: Helicopter Pilot, A Co, 4/123 Avn. Regt. Rtg: AA. RW Qual. Time: 1,700 Hrs.

Holtbrook, Eugene E., (CW4) (M89) (Gene) Route 2, Box 143-C, Newton, AL 36352-9802. Dy: (205) 255-5716. Res: (205) 692-3146. S. Gaylene. Dy: Nvg Section Leader, F Co, 1-14th Avn Bn ATB. Rtg: MAA IFE IP. RW Qual. Time: 4,500 Hrs/Cbt 150 AM3.

Holmes, James K., (CW4) (M85) (Ken) 571 Rosell Drive, Clarksville, TN 37042. Dy: (615) 798-2402. Res: (615) 648-8566. S. Patricia. Dy: C-12, IEASO, Ft. Campbell. Rtg: SAA IFE IP MTP. RW Qual. RW Qual. Time: 5,300 Hrs.

Holyfield, Bill W., (CW2) (M89) 190 Sisker Street, Fort Bragg, NC 28307. Dy: (919) 336-1771. Res: (919) 864-4894. S. Kimberly. Dy: BH-60 Pilot, A Co, 2/82 Avn Bde, 82 Airborne Div. Rtg: AA. RW Qual. Time: 750 Hrs/Cbt 27 AM1.

Hooper, Claude L. Jr., (CW4) (M72) 5/6 Cavalry, 12th Aviation Brigade, APO New York 09457. Dy: 0611-705-5656. Res: 0611-701438. S. Luukko. Dy: Cmd Avn Section Ldr, Wiesbaden Air Base. Rtg: MAA IFE IP. RW Qual. Time: 5,100 Hrs/Cbt 42

Houde, Richard A., (MW4) (M81) (Dick) 410 Fabian Place, Clarksville, TN 37043. Dy: (502) 798-5222. Res: (615) 645-5524. S. Suzanne. Dy: Safety Officer, 101st Avn Bde (AASLT), Fort Campbell. Rtg: MAA IFE IP. RW Qual. Time: 5,685 Hrs/Cbt 1,925 AM10.

Houser, Robert E., (CW4) (M87) (Bob) 12485 Hedges Run Drive, Woodbridge, VA 22192-1475. Dy: (703) 325-5223. Res: (703) 494-7275. S. Sherry. Dy: AH-64 Assignments Officer, Washington, DC. Rtg: MAA IP. RW Qual.

Houston, Douglas E., (WO1) (M89) 212 Dunn Road, Fort Ord, CA 93941. Dy: (408) 242-6970. Res: (408) 394-3183. S. Karen. Dy: LH-60 Pilot, A3-123rd Avn Regt., Fort Ord, CA. RW Qual. Time: 400 Hrs.

Houston, Steven P., (CW3) (M81) 3485 Thorndike Drive, Fayetteville, NC 28311. Dy: (919) 396-5225. Res: (919) 822-8101. S. Karla. Dy: A Co, 2/159th Avn Regt, Fort Bragg. Rtg: MAA IFE IP. RW Qual. RW Qual. Time: 7,300 Hrs/Cbt 1,300.

Howard, Gregory A., (WO1) (M91) 302 Valley Stream Drive, Enterprise, AL 36330. Res: (205) 363-4544. S. Nancy. Dy: C Co, 1/145 Avn, Korea. RW Qual.

Howard, Jacob M., (CW3) (M82) (Jake) 6636 Payne

Avenue, Edwards AFB, CA 93523. Dy: (805) 277-4992. S: Cindy. Dy: Experimental Test Pilot, AOTD, Edwards AFB. Rgr: SAA IP TP. RW Qual. FW Qual. Time: 3,500 Hrs.

Heichak, George S. (CW4) (M83) 115 Albacore Drive, Yorktown, VA 23692. Dy: (804) 878-6108. Res: (804) 898-1443. S: Sharon. Dy: Chief, Standardization, Evaluation, Analysis Div, USAALS, Ft. Eustis. Rgr: MAA IP TP. RW Qual. FW Qual. Time: 3,100 Hrs.

Huber, Richard W. (CW2) (M88) G Company, 7-227th Avn., Box 91, APO New York 09165. S: Nicole. Dy: EH-60 Pilot, Hansu, Germany. RW Qual. Time: 600 Hrs./Cdt 150 AM/1.

Hunter, Russell A. (CW4) (M84) (Russ) 7314-B Gardner Hills, Fort Campbell, KY 42223. Dy: (502) 798-6085. Res: (615) 431-6782. S: Darlyn. Dy: 2-160th B Co, Stp, 2nd Bn, 160 SOAR. Rgr: AA IP. RW Qual. Time: 4,900 Hrs./Cdt 55 AM/2, IV. 89 Avn Trainer Year.

Hurley, Keith M. (WO1) (M88) (Shark) D Troop, 1/1 Cavalry, Box 171, APO New York 09326. S: Diana. Dy: Aeroscout. RW Qual. Time: 525 Hrs./Cdt 155 AM/2.

Hutchison, John R. (CW4) (M85) P.O. Box 70667, Fort Bragg, NC 28307. Dy: (919) 396-7501. Res: (919) 485-6667. Dy: Bn Safety Off, 18th Avn Bde. Rgr: MAA TP. RW Qual. Time: 4,767 Hrs./Cdt 1,200 AM/14.

Hutson, Michael J. (MW4) (M89) (Mike) 1028-A Drennan Park, Fort Campbell, KY 42223. Dy: (502) 798-7424. Res: (615) 431-3645. S: Janie. Dy: UH-60 S/P/FE, Fort Campbell. Rgr: MAA IFE S/P. RW Qual. Time: 7,400 Hrs./Cdt 1,001 DFC/1, AM/36.

Hyde, Michael W. (CW2) (M89) (Sparky) E Company, 502nd Aviation, PSC 54, Box 2440, APO AE 09601. Dy: 632-7804. Res: 39-0434-6606/09. S: Vickie. Dy: CH-47D Pilot, Safety Off, Aviano Airbase, Italy. RW Qual. Time: 547 Hrs./Cdt 164



Ingley, Stephen J. (CW3) (M78) (Charger) 1701 Carol Lee Lane, Conroe, TX 77301. Dy: (409) 539-4151. Res: (409) 539-2788. S: Jaana. Dy: Instructor Pilot. Rgr: S/P. RW Qual. Time: 2,000 Hrs. Sec, Armadillo Chapter.

Inman, William D. (CW4) (M86) (Bill) USA Avn Det Bde, Box 637, APO New York 09611. Dy: 332-5460. Res: (303) 625-1854. S: Jean. Dy: Standardization P, Berlin Germany. Rgr: MAA S/P. RW Qual. FW Qual. Time: 4,200 Hrs. SVP, Checkpoint Charlie Chapter.

Irvine, Earle C. (MW4) (M86) (Earle) PSC 4, Box 2599, APO AA 34004. S: June. Dy: USAFSG Avn Safety Officer. Rgr: MAA S/P TP. RW Qual. Time: 6,000 Hrs./Cdt 900 AM/22. Past Pres, Thunderhorse Chapter.

Irvine, Joseph L. (CW3) (M83) (Joe) 94-1452 Lankhama Avenue, Apt. 389, Millard, HI 96789-2435. Dy: (808) 656-1213. Res: (808) 652-8865. S: Anja. Dy: Instrument Flight Examiner, UH-1, A Co, 425th Avn Regt. Rgr: SAA IP IFE. RW Qual. Time: 3,000 Hrs.



Jackson, Ray E. Jr. (CW3) (M84) (Ray J) 1933 Claymont Drive, Clarksville, TN 37043. Dy: (502) 798-9317. Res: (615) 647-1068. S: Sharon. Dy: Cobra MTFE, D Co, 3101 Avn, Ft. Campbell, KY. Rgr: AA. RW Qual. Time: 1,400 Hrs./Cdt 92 AM/2.



Aviation Warrant Officer Directory

James, William T. (MW4) (M68) (Bill) 305 Chocotaw Drive, Enterprise, AL 36330. Dy: (205) 255-3262. Res: (205) 393-3216. S: Jackie. Dy: Accident Investigator, U.S. Army Safety Center. Rgr: SAA. Time: 3,200 Hrs./Cdt 627 AM/21. Past SVP, Mainz Chapter.

Jasienowski, Joseph A. (WO1) (M86) (Jazz) 108 Barbara Drive, Ozark, AL 36360. Res: (205) 774-3159. S: Denise. Dy: RH-64 Pilot, A Co, 5501st Avn Regt, Fort Bragg. RW Qual. Time: 350 Hrs.

Jeanne, Laura J. (CW2) (M85) (LJ) G Company, Box 2191, Task Force Phoenix, APO New York 09250. Dy: EH-60 Pilot, Katterbach, GE. RW Qual. FW Qual. Time: 1,400 Hrs./Cdt 80 AM/1.

Jensen, Dale J. (CW2) (M88) (Dale) Woodlake, 121 Millards Cove, Vass, NC 28384. Dy: (919) 396-6285. Res: (919) 245-3054. Dy: OH-58 P, C Co, 282 Avn, Ft. Bragg. Rgr: AA IP. RW Qual. Time: 1,000 Hrs.

Jensen, Ronald D. (WO2) (M87) (Ron) 3393 Minor Drive, Clarksville, TN 37042. Dy: (502) 798-4296. Res: (615) 431-9643. S: Dawn. Dy: H Co, 159th Avn Regt, Fort Campbell.

Jermigan, James L. (CW4) (M89) (Jim) 167 Colony Road, Newport News, VA 23602. Dy: (804) 878-0300. Res: (804) 872-8658. S: Sue. Dy: Avn Maintenance Tech, USAALS, Fort Eustis.

Jinks, Dennis M. (MW4) (M90) (Denny) 724 Eufaula St., Ozark, AL 36360. Dy: (205) 255-2803. Res: (205) 774-5448. S: Hope. Dy: Chief, Mstr. WO Tng. Br. WO Career College, Fort Rucker.

Johnson, Art L. (CW2) (M88) (E Co, 502nd Avn. Regt., Box 2456, APO New York 09293. Dy: CH-47D Pilot, Aviano, Italy. Rgr: AA. RW Qual. Time: 500 Hrs.

Johnson, Michael (CW4) (M74) (Mike) HHC, 12th Aviation Bde, APO New York 09457-5000. S: Betty Ann. Dy: Ft Det Cdr, Wiesbaden, Germany. Rgr: MAA S/P MTP. RW Qual. FW Qual. Time: 7,100 Hrs./Cdt 780 AM/30, IV. Life Member. Past VP, Taurus Chapter.

Johnson, Michael W. (CW2) (M90) (Mike) Route 80, Box 23, Burlington Rts, NY 13315. Res: (607) 965-8738. S: Trudy. Dy: Alk Hqtr Pilot, B/5501st. RW Qual. Time: 550 Hrs.

Johnson, Richard G. (CW4) (M77) (Rick) 8607 Port Sudan Court, Orlando, FL 32817. Dy: (407) 623-3532. Res: (407) 677-8561. S: Barbara. Dy: Instructor Pilot, C Co, M Bn (LJ). Rgr: MAA IP MTP. RW Qual. FW Qual. Time: 5,300 Hrs./Cdt 1,865

Johnson, Thomas L. (CW3) (M87) (Big Daddy) 801 Goodson Street, Enterprise, AL 36330. Dy: (205) 255-3514. Res: (205) 393-1612. S: Carole. Dy: Apache Maintenance Test Pilot, 226th B Co. Rgr: SAA MTP. RW Qual. Time: 2,000 Hrs./Cdt 35 AM/1.

Johnston, Fletcher S. (CW4) (M74) (Fletcher) 5340 Holmes Run Pkwy, 104, Alexandria, VA 22304. Dy: (703) 696-9377. Res: (703) 392-8558. S: Marie. Dy: Asst Chief, Sovs Div, USAB, Ft. Meyer, Mill Dist of Washington. Rgr: AA. RW Qual.

Johnston, Jerome J. (CW2) (M85) (Jerry) PSC 1, Box 5143, APO AA 34001. Dy: (507) 284-3366. Res: (507) 287-4931. S: Jeannie. Dy: Aviator, A Co, 1-228th Avn, Fort Kobbe, Panama. RW Qual. Time: 900 Hrs.

Jones, David A. (CW3) (M88) 506 Linda Lane, Clarksville, TN 37042. Dy: (502) 798-2729. Res: (615) 647-8346. Dy: AHA S/P, B/1-101 Avn Regt. Fort Campbell. Rgr: SAA S/P. RW Qual. Time: 1,600 Hrs./Cdt 50 AM/2, IV.

Jones, Terry L. (CW4) (M86) (T.J.) B Co, 3rd MI BN (AE), APO San Francisco 96271. Res: (202) 347-3693. S: Sue. Dy: Unit Standardization Officer. Rgr: AA S/P. RW Qual. FW Qual. Time: 4,500 Hrs./Cdt 325 AM/1.

Justus, Kenneth J. (CW2) (M90) (Troll) P.O. Box 446, Fort Ord, CA 93841-0446. Dy: (408) 242-6900. Res: (408) 626-3928. Dy: A Co, 1/123 Avn. Rgr: IP.



Kahler, Paul E. (CW3) (M91) (PK) 12 Donovan Lane, Fort Rucker, AL 36362. Dy: (205) 255-5223. Res: (205) 598-9233. S: Lisa. Dy: C Co, 1223 Avn Regt, Fort Rucker. Rgr: S/P. RW Qual. Time: 5,000 Hrs./Cdt 150 AM/1.

Kaiser, Ross L. (CW2) (M84) Building 2994, Room 211, Fort Campbell, KY 42223-1601. Dy: (502) 798-5870. Res: (502) 439-7583. Dy: Production Control Off, F Co, 1-160th SOAR, Ft. Campbell. Rgr: AA.

Kale, James R. (MW4) (M88) (Jim) 107 Barbary Drive, Wilmington, DE 19803. Dy: (215) 581-7504. Res: (203) 479-5866. S: Georgia. Dy: Ad Test Pilot Def Plant Flt-Rep-Dep, Philadelphia. Rgr: MAA IFE S/P. RW Qual. Time: 7,500 Hrs./Cdt 1,500 AM/23. Past VP, Fort Sill Chapter.

Karrick, Stephen C. (WO1) (M91) (Chip) 106A Gunter Lane, Enterprise, AL 36330. Dy: (205) 255-4006. Res: (205) 347-7150. S: Jennifer. Dy: Flight Student C/1-145th. Time: 200 Hrs.

Kather, Michael S. (CW4) (M85) (Mike) 402 Grandview Street, Ozark, AL 36360. Dy: (205) 255-5272. Res: (205) 774-7431. S: Janet. Dy: B Co, 1/14th Avn, Fort Rucker. Rgr: IFE S/P. RW Qual. Time: 5,280 Hrs. 1990 Trainer Of Yr.

Katz, William M. (WO1) (M89) (Bill) F Troop, 5/17 Cavalry (CF), Unit 15121, APO AP 96224-0473. Dy: (714) 678-7601. S: Johnnie. Dy: C Co, 22 Avn, Camp Mobile, S. Korea. RW Qual. Time: 350 Hrs.

Kaufman, Stuart M. (CW4) (M74) (Stu) 816 R.S. Bradley Blvd., Clarksville, TN 37042. Res: (615) 645-8999. Dy: 160th SOAR, Fort Campbell. Rgr: AA. RW Qual. Time: 5,400 Hrs./Cdt 200 AM/4.

Kaylor, Robert S. (CW4) (M71) (Shep) 6249 Stony Point Lane, Fayetteville, NC 28306. Res: (919) 425-2892. S: Sandra. Dy: 57th Med Det (RG), Fort Bragg. Rgr: MAA S/P. Time: 6,000. Life Member.

Kegris, Jacob D. (CW4) (M85) (J.D.) 110 Colony Drive, Enterprise, AL 36330. Dy: (205) 255-4000. Res: (205) 347-0043. S: Lomana. Dy: DOL/ALMD, OH58UH-1, MTFE, Fort Rucker. Rgr: AA. TP. RW Qual. Time: 2,500 Hrs.

Keiffer, Robert P. (CW2) (M86) 168 Sister Street, Fort Bragg, NC 28307-2523. Dy: (919) 396-3717. Res: (919) 866-4042. S: Lisa. Dy: Cobra Pilot, AHF, D Troop, 1/17th Cav. Rgr: AA. RW Qual. Time: 850 Hrs./Cdt 40 AM/1.

Kennedy, James P. (WO1) (M89) 57 Hampshire Drive, Hamden, CT 06518. Res: (203) 281-3631. Dy: Aviator, Q Troop, 4/11 ACR, Fuku, GE. Life Member.

Kennedy, Larry D. (CW2) (M87) 20 Gannam Court, Hunter Army Airfield, GA 31409. Dy: (912) 352-5854. Res: (912) 351-9172. S: Pamela. Dy: Safety Officer/Pilot, 24 Cav, C Troop, Fort Rucker. Time: 2,025 Hrs./Cdt 97 AM/1, IV.

Mansford, Richard E., (CW3) (M82) (Rick) 4008 Daisy Mine Court, Fort Irwin, CA 92310. Dy: (619) 386-3087. Res: (619) 386-2907. Rg: UA-1H SIFPE, C Co, 3/159th Avn Regt. Rg: SAA IP SIP IFE. RW Qual. Time: 2,800 Hrs. VP, High Desert Chapter.

Manuel, William K., (CW3) (M89) (Manny) P.O. Box 306, Fort Rucker, AL 36362. Dy: (205) 255-4212. Res: (205) 774-7624. S: Yvette. Dy: UA-1H NVG IP, A Co, 1-212th. Rg: IP. RW Qual. Time: 2,000 Hrs. AAAA McClellan-89.

Marken, Melvin G., (WOC) (M90) (Gimm) 206 Raven Drive, Enterprise, AL 36330. Dy: (205) 255-6737. Res: (205) 393-5192. S: Rosemary. Dy: Flight Student, A/1-145th. Fort Rucker. RW Qual. Time: 210 Hrs.

Martin, Carl R., (CW2) (M89) (Slick) 5405 New Castle Road, Fayetteville, NC 28303. Dy: (919) 396-3800. Res: (919) 868-9451. S: Louanne. Dy: UH-60 Mainst Pilot. 1/17 Cav, 82nd Abn. Rg: MTP. RW Qual. Time: 2,000 Hrs/Cdt 40 AM/1.

Martin, Gary R., (CW4) (M90) Cobra PM Office, HQ, AVSCOM, St. Louis, MO 63120. S: Ronnie. Dy: Cobra PM Office. Rg: MAA TP MTP. RW Qual. Time: 3,500 Hrs/Cdt 700 DFC2, AM/14.

Martin, Jamie L., (CW3) (M79) (Jamie) 1302 Goodhue Drive, Killeen, TX 76542. Dy: (817) 289-3906. Res: (817) 526-5778. S: Carol M. Dy: B Co, 1-3 ABN. Rg: SAA TP MTP. RW Qual. Time: 1,500 Hrs/Cdt 26.

Martin, Mary L., (CW3) (M82) P.O. Box 922, Daleville, AL 36322-0922. Dy: (205) 255-2810. Dy: TAC Officer, C/1-145th, Fort Rucker. Rg: SAA. RW Qual. Time: 1,500 Hrs. Past Treas, Mid-America Chapter.

Martinez, Kevin L., (WO1) (M89) 177A, RD 1, Tabernash, NV 13471. Dy: (315) 330-7085. Res: (315) 339-6345. S: Janet. Dy: B Co, 225 ABN, GAFB, Rome, NY. RW Qual. FW Qual. Time: 430 Hrs/Cdt 27.

Martini, Gerald M., (WO1) (M91) C Company, 202 Aviation Regiment, APO San Francisco 96524-0480. Dy: 011-821-732-5971. Res: 011-821-351-870. S: Linda. RW Qual. Time: 200 Hrs.

Maskunas, Peter D., (CW4) (M81) (Big Mask) Route 1, Box 35-H, Florence, TX 75627. Dy: (817) 287-4140. Res: (817) 634-5397. S: Patricia. Dy: Standards Off, HST 3/6 Cav, 6 CBAC, Ft Hood. Rg: MAA IFE SP. RW Qual. Time: 6,100 Hrs/Cdt 1,100 AM/16. 80 McClellan Award.

Matheson, John T., (CW3) (M84) C Company, 2-227th Avn, Box 153, APO New York 09165-5000. Dy: 322-7789. Res: 06181-54887. S: Dona. Dy: Aeroscout Standardization IP. Rg: SAA IP. Time: 3,450 Hrs/Cdt 85 AM/2.

Mattem, Martin E., (WO1) (M91) (Matt) 5177-4 Comanche Circle, Fort Hood, TX 76644. Dy: (817) 288-3531. Res: (817) 539-0284. S: Sherry L. Dy: 2/3 Avn. Regt. (ATB). RW Qual. Time: 230 Hrs.

Mauter, William J., (CW2) (M81) (Bill) HSC, 24D (FWD), Box 101, APO New York 09165. S: Elaine. Dy: Garstfield, Ger., Aviation Maintenance Technician. Rg: AA MTP. RW Qual. Past VP, Lindbergh Chapter.

Maxwell, Dennis P., (CW3) (M84) (MAC) PSC Box 919, APO Miami 34001-5000. Dy: Company Aviation Safety Officer, B Co, 1-228th Avn, Ft. Kobbe Panama. Rg: AA IP. RW Qual. Time: 2,900 Hrs.

Mayer, Robert A., (CW4) (M84) (Bob) A Co, 7159th Avn. Regt., Box 1795, APO New York 09140. S: Jeanie. Dy: Avionics Plt Ldr. Rg: AA.

Mayers, Ed R., Jr., (CW2) (M72) 1017 Chancellor, Edwardsville, IL 62025. Dy: (314) 263-1929. Res:

M

Aviation Warrant Officer Directory

(619) 682-9052. S: Phyllis. Dy: Avn Trng Off, Apache PMO, PEO-AVN, St. Louis. Rg: MAA IFE SP. RW Qual. Time: 4,500 Cdt 500 Past VP, Maine Chapter.

McCarthy, James D., (CW3) (M87) (JD) 78th Aviation Battalion, Box 53, Unit 45007, APO AP 96343-5000. S: Teri. Dy: RW SIP, Camp Zama, Japan. Rg: SAA SIP. RW Qual. Time: 2,500 Hrs. Past VP, Army Avn Cir Chapter.

McCauley, Radford C., (CW2) (M89) (Cactus) 18 Irwin Street, Fort Rucker, AL 36362-2230. Dy: (205) 255-3741. Res: (205) 588-2558. S: Virginia. Dy: B Co, 2-229th Avn Regt.. Rg: IP. RW Qual. Time: 1,425 Hrs/Cdt 57 AM/1.

McClanahan, Robt. E. Jr., (CW4) (M89) (Bob) 914 Newton Avenue, Ozark, AL 36360. Dy: (205) 255-5716. Res: (205) 774-0299. S: Donna. Dy: F Co, 1-141st Avn, Fort Rucker. Rg: MAA IFE SIP. RW Qual. Time: 7,100 Hrs/Cdt 1,158 AM/36.

McClinton, Daniel M., (CW2) (M87) (Mac) B Co, 4228th Avn, Coto Cano AB, Honduras. APO AA 34042-5000. Dy: B Co, 4228th Avn, UH-1 Pilot. RW Qual. Time: 1,000 Hrs.

McClure, Mark A., (CW2) (M88) 4315 Wolford Drive, Apt. 4, Fort Riley, KS 66442. Res: (913) 784-6746. S: Anna. Dy: OH-58C Rotary Wing Pilot. C Co, 1-1st Avn Regt. Rg: AA. RW Qual. Time: 650 Hrs/Cdt 134 AM/2, IV.

McCallagh, Patrick A., (MW4) (M91) 943 Charwell Drive, Newport News, VA 23602. Dy: (804) 875-1638. Res: (804) 875-1990. S: Catherine. Dy: AD, Maint. Test Flt Branch. Rg: MAA IP MTP. Time: 6,300 Hrs/Cdt 1,300 AM/42.

McDonough, Joseph V., (CW4) (M90) (Joe) 123 Oak Square South, Lakeland, FL 33813. Dy: (813) 646-3223. Res: (813) 648-0042. S: Linda. Dy: IP/Safety Off, FLARNG, AAFB #2. Rg: MAA IFE SIP IP MTP. RW Qual. Time: 5,000 Hrs/Cdt 926 DFC1, AM/28.

McEvers, Jim L., (CW3) (M84) HHC 3d ID, Box 136, APO New York 09036. S: Marilyn. Dy: Aero-med Physician Asst, Wuzburg. Rg: AA.

McFadden, Brian K., (CW2) (M89) (Gonz) 5157-2 Ewell Street, Fort Riley, KS 66442. Dy: (913) 239-3166. Res: (913) 784-3828. S: Kathy. Dy: AH-64 Pilot, A Co, 1-1 Avn Regt. RW Qual. Time: 500 Hrs/Cdt 55 DCF1/AM/1, IV.

McGahan, Neil R. Jr., (CW2) (M85) (Rori) 725 Dodd Street, Shreveport, LA 71107. Dy: (913) 239-3141. Res: (318) 221-2289. S: Sonya. Dy: B Co, 1-1 Avn Regt. Fort Riley. RW Qual. Time: 1,600 Hrs/Cdt 60 AM/1, IV. Life Member.

McGraw, Lawrence M., (CW4) (M88) (Larry) 1722 Mill Drive S.E., Olympia, WA 98503-3032. Dy: (206) 967-3232. Res: (206) 459-4259. S: Nancy. Dy: HHT, 9th Cav Bde (Air A), B Co, 1-1 Avn Regt. MAA IP. RW Qual. Time: 4,200 Hrs/Cdt 991 DFC2, AM/33. Charter Life Member. Sec. Mount Rainer Chapter.

McGrath, Michael P., (CW4) (M86) (Mac) 95-581 Wehewehe Loop, Milliani, HI 96789. Dy: (808) 438-6084. Res: (808) 625-0270. S: Pamela. Dy: HQ USARPAC AH-1SP. Rg: MAA SIP. RW Qual. Time: 2,900 Hrs.

McGuire, Randall J., (CW4) (M86) (Randy) 11508 Bobby Fuller Drive, El Paso, TX 79936-3945. Dy:

(915) 568-9053. Res: (915) 855-0323. S: Melanie. Dy: Instrument Flt Examiner, R Top, 43 ACR, Ft. Bliss. Rg: MAA IFE. Time: 3,970 Hrs/Cdt 25 AM/1.

McKinstry, Ronald J., (CW2) (M89) 164-A Low Brick Row, Fort Riley, KS 66442. Dy: (913) 239-3141. Res: (913) 784-4099. S: Jacquelyn. Dy: B Co, 1-1 Avn. Fort Riley, Company Safety Officer. RW Qual. AM/1.

McMann, Michael S., (WO1) (M89) (Mac) 21 Carwell Street, Fort Ord, CA 93941. Dy: (408) 242-2733. Res: (408) 384-2653. S: Michelle. Dy: J1-123. RW Qual. Time: 300 Hrs.

McMillan, Cornelius, (CW4) (M71) (Mac) B Company, 70th Tans Brn, (AVMA) APO New York 09028-3727. S: Betty. Dy: Production Control Officer. Rg: MAA IP TP. Time: 7,860 Hrs/Cdt 8 DFC, AM/1, VP. Past VP, Hanau Chapter.

McNiff, Owen A., (CW3) (M83) (Ornar) 61 Woodrow Drive, Enterprise, AL 36330. Dy: (205) 255-2414. Res: (205) 347-6846. S: Jeong. Dy: B Co, 1-212th Avn Regt. Rg: SAA IP MTP. RW Qual. Time: 3,000 Hrs.

McWay, Paul F., (WOC) (M91) (Blackie) 226 Elm Way, Daleville, AL 36322. Res: (205) 596-8536. S: Kristi. Dy: B/1-145th.

McWaters, John D., (CW4) (M72) (Muck) AFO 358th Avn. Regt., Box 52, APO New York 09102-3170. Dy: 011-49-6221-578044. Res: 011-49-6221-390744. S: Melanie. Dy: Flight Operations Officer, Hirschberg. Rg: MAA IFE SIP. RW Qual. FW Qual. Time: 5,630 Cdt 624 AM/1.

McWaters, Tony H., (CW3) (M87) (H20) 540 Columbus Drive, Savannah, GA 31405. Dy: (913) 362-6721. Res: (913) 364-5917. S: Denise. Dy: AH-1SP, Hunter Army Airfield. Rg: SAA SIP. RW Qual. Time: 2,500 Hrs/Cdt 100 AM/1.

Meany, Donald, (CW3) (M88) (Don) 737 6th Loop, Fort Wainwright, AK 99703. Dy: (907) 359-7085. Res: (907) 356-2812. S: Brigit. Dy: UH-1P, A Co, 4-123rd Avn. Rg: SAA IP. RW Qual. Time: 3,000 Hrs/Cdt 50.

Meier, John P., (WO1) (M89) 701 Fourth Avenue, Fort Ord, CA 93941-1019. Dy: (408) 242-4201. Res: (408) 384-3270. S: Karen. Dy: 2/9 Cav RECON, 7th Infantry, C Tpt, Fort Ord. RW Qual. Time: 425 Hrs.

Merrell, Timothy J., (CW2) (M89) 1444 Circle Drive, Apt. 4, Fort Campbell, KY 42223-1188. Dy: (502) 796-6658. Res: (515) 431-9582. S: Josephine. Dy: Scout Pilot, C Tpt, 217th Cav, 101st Abn Div.

Merrell, Fred M., II, (CW3) (M83) (Tad) 5855-B Garden Avenue, Ewa Beach, HI 96706. Dy: (808) 684-0863. Res: (808) 499-2551. S: Sue. Dy: OH-6A Pilot, B Co, 214th Avn, NAS Barbers Point, HI. AA IP.

Merrill, Gary A., (CW4) (M82) 484 Turner Loop, Fort Campbell, KY 42223. Dy: (502) 798-9303. Res: (615) 431-5741. S: Cathy. Dy: 3-101 Avn Regt, Fort Campbell, KY. Rg: AA IFE. RW Qual. Time: 3,600 Hrs/Cdt 100 AM/1.

Metcalf, Richard K., (CW2) (M91) (Squid) 260 Granite Trail, Harker Heights, TX 76542. Dy: (817) 287-9914. Res: (817) 686-1568. S: Kimberly. Dy: A Tpt, 1-6 Cav GOCBAC, Fort Hood. Rg: IP. RW Qual. Time: 1,000 Hrs.

Metz, Ury T., (WOC) (M91) 200 Wynwood Court, Ozark, AL 36360. Dy: (205) 255-6691. Res: (205) 774-6515. S: Debbie. Time: 120 Hrs.

Meyer, Michael J., (WO1) (M89) (Mike) R 42 AC Box 10142, APO New York 09032-0216. Dy: Pilot/H-1. RW Qual. Time: 350 Hrs/Cdt 34 AM/1.

Meyer, John C., (WO1) (M86) (Ah) 3142 O Creek Drive-East, Colorado Springs, CO 80906. D

(719) 576-2253. Res: (719) 576-0948. S: Kathy. Dy: FLP. C: TP, 27 Cav. RW Qual. Time: 475 Hrs.

Mikels, William A., (WOC) (M91) (Tony) CMR 2, Box C-12231, Fort Rucker, AL 36362-5091. Time: 410 Hrs.

Mikeska, E.J., Jr., (CW3) (M89) (E-Hogg) 402 Hogan Drive, Copperas Cove, TX 76522-1835. Dy: (817) 287-7470. Res: (817) 542-3328. S: Karen. Dy: AH-64 P. MTP, B TP, 46 Cav. 6 CBAC, Fort Hood. Rtg: P MTP. RW Qual. Time: 2,150 Hrs.

Miller, James W., Jr., (CW3) (M83) (Jim) 407 Jordan Drive, Clarksville, TN 37042-5117. Res: (615) 648-9258. S: Sherry. Dy: AH-64 IPHIF, C Co, 1st Bn, 101st Avn Regt, Fort Campbell. Rtg: SAA SIP IFE. RW Qual. Time: 2,100 Hrs./Cbt 67 AM2, 2V.

Miller, Paul R., (W01) (M90) (Monkey) C Co., 1st Bn (ATK), 2nd Avn Regt, Unit 15434, APO AP 96257-0480. Dy: Aeroscout Pilot, Korea. RW Qual. Time: 290 Hrs.

Milligan, Sean H., (WOC) (M90) (CMR No. 2, Box 13367, Fort Rucker, AL 36362. Dy: (205) 255-4006. Dy: C Co., 1/145. RW Qual. Time: 120 Hrs.

Minninger, James E., (CW4) (M89) (Jim) 809 Amanda Drive, St. Peters, MO 63376-5533. Dy: (314) 263-1813. Res: (314) 928-8273. S: Tammy. Dy: Asst Program Mgr, MANPRINT, Comanche PMO, DFCI, AMB.

Mitchell, Dean D., (CW3) (M90) (F Company, 1st Avn Regt, Fort Riley, KS 66442. Dy: (913) 239-3693. Res: (913) 539-0567. S: Gina. Dy: Maintenance Officer F1st, Fort Riley. Rtg: MTP. RW Qual. Time: 1,500 Hrs./Cbt 90 AM1. Past Vp, Mid-America Chapter.

Mitchell, Stephen J., (CW3) (M89) 3086 Trevor Lane, Fayetteville, NC 28304. Dy: (919) 396-4106. Res: (919) 864-6286. S: Sharlie. Dy: 1/62nd AHB, Ft Bragg, AH-64 P. Rtg: P. RW Qual. Time: 2,800 Hrs./Cbt 45 AM1.

Mohon, Gary S., (W01) (M91) (Scott) 305 North 2nd Street, Central City, KY 42330. Dy: (502) 798-5504. Res: (502) 886-1120. Dy: B Co, 9-101st, Fort Campbell, KY. RW Qual. Time: 300 Hrs.

Mohr, Brian L., (CW4) (M86) 419 Funtun Road, Wahkiak, HI 96786. Dy: (808) 656-1266. Res: (808) 624-2610. S: Junga. Dy: Ft Safety Tech, A Co, 425 Avn Regt, Wheeler AFB. Rtg: MAA. RW Qual. Time: 3,000 Hrs./Cbt 436 AM17.

Molloy, Charles J., (WOC) (M91) (Chuck) 30 Thorne Street, Fort Rucker, AL 36362-5000. Dy: (205) 255-6581. Res: (205) 598-6513. S: Stacy. Dy: B1-145. RW Qual. Time: 170 Hrs.

Moltenberry, John S., (CW3) (M83) 712 Village Green Parkway, Newport News, VA 23604. Dy: (804) 678-3721. Res: (804) 249-1915. S: Teresa. Dy: Track Chief, OH-580, Maint Test Pilot Course, Ft. Eustis. Rtg: SAA SIP MTFE. RW Qual. Time: 6,390 Hrs.

Monaghan, Michael F., (CW2) (M86) (Mike) 82 Brown Pelican Drive, Savannah, GA 31419-2855. Dy: (912) 352-5169. Res: (912) 920-3351. S: Christine. Dy: Avn Maint Tech, D1-24th Avn Regt, Hunter AAF.

Monette, Robert J., (CW4) (M81) (Buffalo) 16 Magnolia Drive, Daleville, GA 36322. Dy: (205) 255-3979. S: Judy. Dy: AH-64 Sr IP, D1-14 Avn Regt, MAA SIP. Time: 6,300 Hrs./Cbt 1,400 DFC/AM57, IV. 88 AAAA Army Avn Trainer of Yr.

Monroe, Michael R., (CW2) (M83) (Madmie) P.O. Box 72711, Fort Bragg, NC 28307. S: G. Maria. Dy: AH-64 Maint Test Pilot, 1 Co, 159th Avn Regt, Fort Bragg. Rtg: AA TP MTP. RW Qual. Time: 1,430 Hrs./Cbt 35



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Montgomery, Thomas L., (CW2) (M87) (Monty) 11 7th Av, Fort Rucker, AL 36362. Dy: (912) 596-6641. S: Conna. Rtg: AA P. RW Qual. Time: 1,538 Hrs.

Moore, Danny F., (CW4) (M83) (Dan) 534 Kline Road, Wahkiak, HI 96786-3825. Dy: (808) 656-1266. Res: (808) 624-4460. S: Karen. Dy: Avn Safety Officer, B Co, 4th BN 25th Avn Regt, Wheeler AFB. Rtg: SAA. RW Qual. Time: 2,400.

Moore, Ruffin C., (CW4) (M91) P.O. Box 4243, Fort Eustis, VA 23604. Dy: (804) 878-3266. Res: (804) 874-4348. Dy: Instructor Pilot, 1st S&F Co., Fort Eustis. Rtg: MAA IP MTP. RW Qual. Time: 4,350 Hrs./Cbt 715

Moorehead, Michael T., (CW4) (M84) (Mike) 3/1 AHB, Box 2288, APO New York 09250-5000. Dy: 467-2609. Res: 09829-1459. S: Vickie. Dy: 3-1 Safety Officer. Rtg: AA SIP. Time: 4,500 Hrs./Cbt 250 AM4. Past Trass, Follow Me Chapter.

Moran, Homer L., (CW4) (M74) (Larry) C Company, 9227th ASB, Box 004, APO New York 09165-1624. S: Bonnie. Dy: Aviation Maintenance Technician, ROA, Ryeghost Kazeme, Ger. Rtg: AA.

Morseault, Erick M., (W01) (M89) (Mo-Mo) D Company, 1-501 Aviation, Unit 15518, Box 159, APO AP 96218-0684. S: Ju-Hee. Dy: VIP Support, TAEWG-H805-CP Walker, S. Korea. RW Qual. Time: 480 Hrs.

Morrill, Robert L., (W01) (M91) 209 Arulo Road, Fort Ord, CA 93941. Dy: (408) 242-3534. Res: (408) 294-7362. S: Tammy. Dy: PC Officer, 29 Cav, Fort Ord.

Morris, Mark K., (CW2) (M88) C Company, 7-158th Aviation Regiment, APO New York 09457. Dy: 0611-705-5618. S: Karen. Dy: C Co, 7/158th Avn Task Force Mountain, Wiesbaden, Germany. Rtg: AA. RW Qual. Time: 650 Hrs./Cbt 43 AM2, IV.

Morton, John M., (CW4) (M78) (Mike) 13519 Liberty Oak, San Antonio, TX 78232. Dy: (512) 221-2326. Res: (512) 490-8294. S: Carol. Dy: Safety Officer, 5th Army CARF Team, Ft. Sam Houston. Rtg: MAA. RW Qual. Time: 3,900 Hrs./Cbt 700 DFC2, AM25.

Moss, Robert C., (CW3) (M90) (R.C.) 110 N. Harris Drive, Fort Rucker, AL 36362. Dy: (205) 255-4606. Res: (205) 598-2705. Dy: C1-212 ATB. Rtg: P. RW Qual. Time: 3,700 Hrs.

Motes, Richard B., (W01) (M89) (Rick) B Troop, 2-6 Cavalry, Box 188, APO New York 09140. Dy: 467-4504. Res: 09841-7250. Dy: Asst Hcplr Pilot. RW Qual. Time: 307 Hrs./Cbt 9

Mullen, Lance O., (WOC) (M91) 15 Olsen Lane, Fort Rucker, AL 36362. Res: (205) 598-8227. S: Cynthia. Dy: Flight Student. RW Qual. Time: 170.

Mullens, Ralph E., (CW4) (M81) 1658 Coventry Way, Jonesboro, GA 30236. Dy: (404) 362-7176. S: Arnelles. Dy: 2nd Army Avn Readiness Group, Ft. Glenn, GA. Rtg: MAA MTP. RW Qual. Time: 2,600 Hrs./Cbt 400 AM.

Munro, Stanley A., (CW4) (M84) 2nd Avn Regt, 2nd BN, A Company, Unit 15428, APO AP 96257-0461. Dy: 732-8567. Res: 82-351-870-5482. S: Pam. Dy: Airfield Cpt, Camp Stanley. Rtg: MAA IFE SIP. RW Qual. Time: 5,200 Hrs./Cbt 1,000 Life Member.

Murdoch, Roy W., (CW2P) (M90) 3604 Red Cloud Place, Ft. Pao, TX 79936-1245. Dy: (915) 568-8681.

Res: (915) 566-1340. Dy: Maint Test Pilot, O Tnp, 43 ACR, Ft. Bliss. Rtg: MTP. RW Qual. Time: 1,500 Hrs./Cbt 20

Murray, Alexander E., (W01) (M89) (Blue Steel) A Troop, 26 Cavalry, APO New York 09140. Dy: OH-58 Aeroscout Pilot. RW Qual. Time: 350 Hrs./Cbt 30 AM1.

Murrell, Reginald C., (CW4) (M73) (Reggie) P.O. Box 204, St. Inigoes, MD 20684. Dy: (301) 863-4411. Res: (301) 872-5784. S: Margie. Dy: Ft Instr, US Navy Test Pilot School, Patuxent River, MD. Rtg: MAA IP TP. RW Qual. Time: 6,000 Hrs./Cbt 1,272 AM31. Past Trass, Mainz Chapter.

Myers, Joe N., (CW4) (M77) 454 B. Jachin Loop, Fort Belvoir, VA 22060. Dy: (703) 664-2765. Res: (703) 781-3430. S: Carrie. Dy: MTFE (JH60), RVAFAT, USAIDAC. Rtg: MAA TP. RW Qual. Time: 3,020 Hrs. AM1.

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Nagle, William S., (CW2) (M83) (Bill) P Troop, 42 ACR, Box 443, APO New York 09092. Res: 0911-6880586 S: JoAnn. Dy: Pilot (OH-580), IP. Rtg: SAA IP. RW Qual. Time: 3,000 Hrs./Cbt 100 AM1. Past Trass, Monterey Bay Chapter.

Nash, Jon A., (W01) (M89) 7266-B two Jima, Fort Carson, CO 80913. Dy: (719) 579-3672. Res: (719) 540-8545. S: Deanne. Dy: UH-1 Pilot/Division ALSE Officer, E Co, 4-4 Avn C&B Div Ft STD. RW Qual. Time: 300 Hrs.

Nation, Lance E., (W01) (M88) 5122-2 Pelham Avenue, Fort Riley, KS 66442. Dy: (913) 239-8151. Res: (913) 784-6041. S: Margaret. Dy: OH-580 Pilot, A Co, 4-1 Avn, Fort Riley. RW Qual. Time: 500 Hrs.

Nelson, Jerred L., (W01) (M91) (Jerry) CMR 3, Box 7717, Fort Rucker, AL 36362-5099. Dy: (205) 558-6641. Res: (205) 393-2002. S: Laura. Dy: Pilot, D Co, 1-13th Avn, Rtg: AA. RW Qual. Time: 275.

Newland, Bryan D., (CW2) (M88) F Troop, 517 Cavalry (CAP), APO San Francisco 96224. Res: (202) 393-2557. S: Susan. Dy: C Co, 2nd Avn Bn, 2nd Id, Korea. Rtg: SAA IP. RW Qual. Time: 2,200 Hrs.

Newsom, Larry W., (CW4) (M86) PSC Box 2211, APO New York 09063. Dy: 370-8084. Res: 0049-6221-383564. S: Carol. Dy: Flight City Tech, USAREUR, Heidelberg, Ger. Rtg: MAA. RW Qual. Time: 3,006 Hrs./Cbt 761 AM2.

Nicholson, Scott E., (WOC) (M91) 505 Brianwood, Apt. L-4, Enterprise, AL 36330. Dy: (205) 255-6691. Res: (205) 393-8603. S: Alyson. Dy: B1-145th. Time: 50 Hrs.

Novak, Robert J., (CW2) (M86) (Bob) 7633 Murray Ridge Road, Elyria, OH 44035-2010. Dy: C Co, 2-101st Avn, Fort Campbell. RW Qual. Time: 800 Hrs./Cbt 25 AM1.

Nutt, Michael T., (CW2) (M88) (Nuttie) 51770-3 Comanche Circle, Fort Hood, TX 76545. Dy: (817) 268-1030. Res: (817) 539-9626. S: Debbie. Dy: C Troop, 1/7 Cav, 1st Cav Div, Asst Hcplr Pilot, Fort Hood. Rtg: AA. RW Qual. Time: 400 Hrs./Cbt 30 AM2.

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O'Bannon, Gareth A., (CW2) (M83) (Og) D Company, 4/158th Aviation Regiment, APO New York 09359. S: Flora. Dy: OH580 Pilot, Stuttgart, Germany. Rtg: SAA IP. RW Qual. Time: 2,500 Hrs./Cbt 15 AM1.

Odum, G. Hunter, (CW3) (M89) (Hunter) 429 Haimark Road, Fayetteville, NC 28303. Dy: (919)

395-2493. Res: (919) 864-1600. S. Joan. Dy: Fixed Wing Pilot, 207 Avn Co, Hedsberg, Germany.
Oldroyd, William C. (CW4) (M81) (Curt) 8051 Oak Hollow Lane, Fairfax Station, VA 22039. Dy: (703) 325-5225. Res: (703) 690-5953. S. Deborah. Dy: A-1 Career Mgr, Warrant Officer, US PERFORM. Rtg: MAA SIP. Time: 4,000 Hrs/Cbt 600

O'Leary, Gary F. (CW4) (M88) 7682 High Pine Road, Orlando, FL 32819-5165. Dy: (407) 623-3536. Res: (407) 352-0068. S. Barbara. Dy: Cdr. D Co (PROV), MI BN (LJ), Orlando. Rtg: MAA SIP. RW Qual. FW Qual. Time: 4,500 Hrs/Cbt 1,200

Ollila, Edward J. (WO1) (M90) (Ed) 1119 Cressie Street, Philadelphia, PA 19125. Res: (215) 427-1823. S. Monika. Dy: 17th Avn Bde, Korea. RW Qual. Time: 175 Hrs.

O'Neill, Christian J. (WO1) (M89) (Boo Boo) A Troop, 501 Cavalry, APO New York 09457. Dy: 49-0611-701-547. Res: 49-0611-705-5739. S. Peggy Ann. Dy: AH-64 Pilot. RW Qual. Time: 300/Cbt 130

Orfield, Tracy L. (WO2) (M91) (Trace) 134 Red Cloud Road, Fort Rucker, AL 36362. Dy: (205) 255-4006. Res: (205) 596-3229. S. Kristy. Dy: C-145. RW Qual. Time: 175 Hrs.

Osborne, Daniel E. (CW4) (M78) (Dan) 3524 Sugar Cane Circle, Fayetteville, NC 28303-4638. Dy: (919) 386-2650. Res: (919) 867-2895. S. Mary Anne. Dy: AH-64 Armament Off/Maint Test Pilot, D Co, 1-82 Avn Bn. Rtg: MTP. RW Qual. Time: 4,000 Hrs.

Osberg, Gary L. (CW4) (M83) (Mustang) 1193 New Drennan Park, Fort Campbell, KY 42223. Dy: (502) 798-6548. Res: (615) 431-5509. S. Deborah. Dy: HSC, 1/160th SOAR. Rtg: MAA IFE SIP. RW Qual. FW Qual. Time: 4,000 Hrs/Cbt 90

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Paddock, Jeffrey L. (CW3) (M90) (Jeff) A Co., 1st Mil Battalion, Box 1875, APO New York 09457. S. Beverly. Dy: OV-1 Pilot, A Co., 1st Mil Bn, Germany. Rtg: IP. RW Qual. FW Qual. Time: 3,100 Hrs/Cbt 80

Pagadine, Randall (CW3) (M84) (Randy) 1803 Hammond Drive, Kellen, TX 75542-9717. Dy: (817) 287-8195. Res: (817) 690-6199. S. Nancy. Dy: AH-64A Alk Helicopter Pilot, Ft. Hood. Rtg: AA IP. RW Qual. Time: 2,100 Hrs/Cbt 25

Pardue, James R. (CW3) (M82) (Randy) 223 Forest Ridge Drive, Savannah, GA 31419. Dy: (912) 352-6719. Res: (912) 927-2214. S. Judy. Dy: C Co 1/24th Avn Regt, HAAF. Rtg: SAA SIP. RW Qual. Time: 2,000 Hrs/Cbt 59 AM/1.

Parfins, Randall R. (CW4) (M79) HHC, Combat Aviation Bde, APO New York 09165. Dy: 322-7623. Res: 06051-6390. S. Nancy. Dy: AH-64 SIPIFE. Rtg: MAA. Time: 3,700 Hrs/Cbt 100 AM/1.

Partridge, G. Stan (CW2) (M88) (Stan) 5131 Early Street, Apt. 2, Fort Riley, KS 66442. Dy: (913) 239-3166. Res: (913) 784-4702. S. Lanza. Dy: A Co, 1-1 Avn Regt, Fort Riley. RW Qual. Time: 400 Hrs/Cbt 30 DFC1, AM/2.

Pascall, Michael C. (CW3) (M86) 56th Avn Co, Box 169, APO 09208. Dy: 382-5387. Res: 49-6241-2962. S. Susan. Dy: C12A21 Pilot, Coleman Bde, Santhofen, Germany. Rtg: SAA IP. RW Qual. FW Qual. Time: 5,000 Hrs. AM/1. Life Member.

Patrick, James E. III (CW3) (M91) (Jim) 19 Arnes Lane, Fort Rucker, AL 36362. Dy: (205) 596-1940. S. Sylvia. Dy: IP, DFI-212th. Rtg: IP. RW Qual. Time: 1,800 Hrs.

Patrick, Jay F. (CW2) (M87) P.O. Box 661, Fort

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Aviation Warrant Officer Directory

Packer, Al 36362-0661. Dy: (205) 255-6056. Res: (205) 596-4511. Dy: IP, C Co, 1-223 Avn. Rtg: SAA SIP. Time: 2,200 Hrs.

Payne, Steven C. (CW2) (M86) 3882 Mulberry Drive, Columbus, GA 31907. Dy: (404) 545-5311. Res: (404) 561-1222. S. Pamela. Dy: UH-60A Aviator, 498th Medical Co (AA). Rtg: IP. RW Qual. Time: 2,200 Hrs/Cbt 78 AM/2.

Pearse, Donald F. (CW3) (M82) (Don) A Co., 7/227th Avn. Regt., Box 124, APO New York 09165-1618. Res: 011-49-6184-4536. S. Linda. Dy: 3rd Armored Div. Rtg: SAA. RW Qual. Time: 3,050 Hrs/Cbt 145 AM/1.

Pedham, Stephen W. (CW3) (M86) (Steve) B Co., 8/158th Avn. Regt., Box 141, APO New York 09165. Dy: 322-7773. Res: 049-6181-5510. Dy: AVIM Product Control Officer. Rtg: SAA MTP IP. RW Qual. Time: 1,580 Hrs.

Pegram, Randy T. (WO2) (M91) (Peggy) 107 Chert Drive, Clark, AL 36360. Dy: (205) 255-6591. Res: (205) 774-5045. S. Isabelle. Dy: B-1-145th. Time: 50 Hrs.

Pena, Alfred (CW3) (M80) (Fred) 52 E Harris Drive, Fort Rucker, AL 36362. Dy: (205) 255-5033. Res: (205) 596-6451. S. Janice L. Dy: C Co, 1-14th Avn. Rtg: IP. RW Qual.

Perick, Edward S. (CW3) (M83) (Ed) O Troop, 4/11 ACR, APO New York 09146. Dy: 321-3668. Res: 0661-45543. Dy: O Troop, 4/11 ACR, Fulda, Germany. Rtg: SAA SIP. RW Qual. Time: 4,200 Hrs.

Penrose, Tommy T. (CW4) (M86) (Tom) 107 Pasadena Drive, Enterprise, AL 36330. Dy: (205) 255-2111. Res: (205) 393-5311. S. K. Dy: Training Dev Officer, Fort Rucker. Rtg: MAA SIP. RW Qual. Time: 3,000 AM/1. Past VP, Alpha Chapter.

Perante, Robert C.Jr. (CW2) (M88) (Rob) 1051 Wisteria Ave, No. 12, Bartow, CA 92311. Dy: (619) 386-3085. Res: (619) 252-1733. S. Lorie. Dy: C Co, 3/159th Avn Regt, Ft. Irwin. Rtg: AA. RW Qual. Time: 1,000 Hrs. VP, High Desert Chapter.

Perez, Joseph (CW4) (M89) (Joe) C Troop, 6/6th Cavalry, Box 505, APO New York 09140. Dy: 4674-419-913. Res: 09643-3993. S. Jeannette. Dy: Inst Ft Examiner, Ilshheim, Ger. Rtg: MAA IFE. RW Qual. FW Qual. Time: 7,005 Hrs/Cbt 1,001 DFC3, AM/41, 2V. Past VP, Monterey Bay Chapter.

Peters, Mark E. (CW4) (M81) (Pete) E Troop, 3-4 Cavalry Regiment, APO New York 09102. Dy: 354-6257. Res: 08721-4098. Dy: SIPIFE. Rtg: SAA SIP IFE. RW Qual. Time: 5,800 Hrs/Cbt 100 AM/2.

Peterson, Rick (CW3) (M84) 649 Bunker Hill Road, Clarksville, TN 37042. Dy: (502) 798-5917. Dy: 9/101st, Co B, Campbell AAF. Rtg: SAA IP SIP. RW Qual. Time: 3,700 Hrs/Cbt 100 Life Member.

Peterson, Arthur F. (CW2) (M89) 112 King Cole Drive, Clarksville, TN 37042. Dy: (502) 798-2658. Res: (615) 431-5556. Dy: UH-60 Pilot, A-4/101st Avn Regt, Fort Campbell. Rtg: AA. RW Qual. Time: 450 Hrs/Cbt 120 AM/1.

Peterson, Robert M. (MW4) (M87) (Pete) 95-789 Makauulua Street, Milani, HI 96789. Dy: (808) 456-2195. S. Melody. Dy: Maint Tech, Avn Bde, Wheeler AFB. Rtg: MAA TP. RW Qual. RW Qual. Time: 4,245 Hrs/Cbt 655 AM/15.

Phu, William E. (CW3) (M85) (Bill) 103 Wallace

Drive, Rte 1, Daleville, AL 36322. Dy: (205) 255-4006. Res: (205) 383-2183. S. Lynda. Dy: C Co, 1-145th Avn. Rtg: SAA IP. RW Qual.

Phillips, Dennis J. (CW4) (M72) P.O. Box 674 USJLCOM Ft Det, APO New York 09359-5349. Dy: 421-4206. Res: 049-711-37665. S. Lorraine. Dy: USJLCOM Ft Det, Stuttgart Germany. Rtg: MAA TP. RW Qual. FW Qual. Time: 5,100 Hrs.

Phillips, Robert D. (CW4) (M89) 305-B Suder Street, Schofield Barracks, HI 96786. Dy: (808) 656-2794. Res: (808) 624-2046. S. Mary Lou. Dy: UH-60 Test Pilot. Rtg: MAA TP. RW Qual. Time: 5,000 Hrs/Cbt 1,500 AM/26.

Phlips, Curtis R. (CW2) (M86) G Co, 3rd Avn Regt, Box 126, APO New York 09182. S. Laura. Dy: OH-58 Combat Aviator, Task Force 23/Abn Pl. D Co.

Pierce, Donald D. (CW4) (M88) (Don) HHC 1st AFV Avn Det, APO New York 09137-5000. Dy: 425-3816. Res: 804-826-4941. S. Lynn. Dy: Maint Officer, Ger. Rtg: MAA IP MTP MTF. RW Qual. Time: 3,300 Hrs.

Pisano, Joseph L. (CW4) (M79) (Joe) AAAA Nat Member-at-Large, 110 Nottingham Place, Oakville, TN 37042-3135. Dy: (502) 798-7242. Res: (615) 645-9213. S. Lorna. Dy: Avn Bde Assistant Adjutant. Rtg: MAA IP. RW Qual. Time: 4,900 Hrs/Cbt 1,000 AM/4. Life Member. NEB, Sch Board, Sec Air Assault Chapter. Past VP, Air Assault Chapter.

Podurjel, Frank J. (CW3) (M82) (Pod) 116 Chabot Drive, Enterprise, AL 36330. Dy: (205) 255-3310. Res: (205) 393-2510. S. Elsa. Dy: C Co, 1/121st Avn. Rucker. Rtg: SAA SIP. Time: 4,000 Hrs.

Pools, David W. (CW2) (M90) 516 Jewel Drive, Clarksville, TN 37042-6152. Dy: (502) 798-9302. Res: (615) 647-6631. S. Patsy. Dy: Maint Test Pilot, A3-101 Avn Regt. Rtg: MTP. RW Qual. Time: 1,500 Hrs/Cbt 150 AM/1.

Povis, Michael R. (WO1) (M89) (Mike) O Troop, 4/11 ACR, Box 361, APO New York 09146. Dy: 011-49-0861-8668. Res: 011-49-0861-46120. Dy: Fulda, Germany. RW Qual. Time: 400 Hrs.

Powell, Bradford A. (CW4) (M89) (Boog) 1803 Warren Drive, Clarksville, TN 37040. Dy: (502) 798-7083. Res: (615) 647-7688. S. Kathleen. Dy: 160th Spec Ops Avn Regt, Syst Integ Ctr. Rtg: MAA IP. RW Qual. Time: 4,000 Hrs. Life Member.

Prata, Michael G. (CW3) (M91) 4 Verna circle, Daleville, AL 36322. Dy: (205) 255-4212. Res: (205) 596-6637. S. Ruby. Dy: Instructor Pilot. Rtg: IP. RW Qual. Time: 4,250 Hrs.

Prewitt, David A. (CW4) (M82) (Dave) 2508 Pembroke Court, Woodbridge, VA 22192. Dy: (703) 664-2019. Res: (703) 490-5745. S. Susan. Dy: US Army Davison Avn. Rtg: MAA IFE SIP. RW Qual. FW Qual. Time: 4,500 Hrs. AM/1.

Priddy, Donald E. (MW4) (M83) (Don) 625 Henschbach Drive, Melvin Price Center, Granite City, IL 62040. Dy: (314) 253-2777. Res: (618) 876-3220. S. Jan. Dy: AVSCOM Depot Maint. Rtg: MAA. RW Qual. FW Qual. Time: 3,000 Hrs/Cbt 700 AM/18.

Prieto, Jose E. (CW3) (M87) (Joe) PSC Box 4861, APO Miami 34001. Dy: 84-3366. Res: 86-3435. S. Karen. Dy: A Co, 1/228 Avn Regt, Ft. Kobbe, Panama. Rtg: SAA IP. RW Qual. Time: 2,900 Hrs/Cbt 135 AM/1.

Proctor, Brian K. (CW3) (M82) 1111 Spruce Street, Leesville, LA 71446. Dy: (318) 535-4444. Res: (318) 238-5034. S. Rita. Dy: Attack Aviator, C Tpt, 3-Cav. Rtg: SAA. RW Qual. Time: 1,700 Hrs.

Proffitt, Timothy C. (CW2) (M91) (T.C.) P.O. Box 620291, Fort Rucker, AL 36362. Dy: (205) 255-

4605. Res: (205) 598-4465. Dy: UH-1H Instructor Pilot, C71-212. RW Qual. Time: 1,500 Hrs. AM/1.

Pucci, Larry R., (CW4) (M88) 1901 W. Paseo Monserat, Tucson, AZ 85704. Dy: (602) 624-9204 S. Debbie. Dy: AAF No. 2 Prod Air Park. Rtg: MAA SIP IFE MTP. Time: 8,000 Hrs. Life Member.

QQQQRRRRR

Quinones, Raymond A., (WO1) (M89) (Tony) A Co. 5159th Avn. Regt., Box 185, APO New York 09025. Dy: 426-4805. Res: 49-07971-8307. S: Linda. Dy: Schwabach Hill, Germany. RW Qual. Time: 750 Hrs./Cst 2 AM/1.

Raz, Neil A., (WOC) (M90) 1600 Rucker Boulevard, Apt. 1, Enterprise, AL 36630-2292. Dy: (205) 255-4987. Res: (205) 393-5451. S: Shannon. Dy: C71-145th. RW Qual. Time: 325 Hrs.

Rader, William J., (CW2) (M89) (Bil) A Co., 2-1 Avn. Regt., Box 3573, APO New York 09020. Dy: 09802-83-2175. Res: 0981-77214. S: Linda. Dy: AH-64 Safety Officer. Rtg: MTP. RW Qual. Time: 1,400 Hrs./Cst 22 AM/2.

Ramello, John G., (WO1) (M91) (Meech) 5113 Surf Scooter Drive, Fayetteville, NC 28311. Dy: (919) 396-9518. Res: (919) 822-6294. Dy: Aviator. RW Qual. Time: 200 Hrs.

Ramsey, William H., (CW4) (M71) (Flut) 7079 Partridge Drive, Fayetteville, NC 28314-9108. Dy: (919) 396-2608. Res: (919) 867-2302. S: Tenny. Dy: 1/17 Cav Sqn Standardization Off. Rtg: MAA SIP. RW Qual. Time: 6,200 Hrs./Cst 70 AM/3.

Randall, Craig V., (CW4) (M81) PSC 01, Box 1064, APO AA 34001-0040. Dy: 011-507-84-4842. S: Janice. Dy: C12F Stds P. USARSO, Panama. Rtg: MAA SIP. RW Qual. Time: 6,755 Hrs.

Randall, Henry T., (CW4) (M87) (Ted) HHC, 4159th Aviation Regt., Box 151, APO New York 09059. Dy: 421-4236. Res: 49-711-754-6118. S: Sonia. Dy: RNIFW Aviator, Stuttgart AAF. Rtg: MAA IFE SIP. RW Qual. Time: 7,000 Hrs./Cst 800 Past Vp. Follow Me Chapter.

Rapp, Howard L., (CW4) (M85) 6032 Star Lane, Herford, AZ 86615. Dy: (602) 538-2805. Res: (602) 378-1755. Dy: SIP ME, Maintenance Officer, Fort Huachuca. Rtg: MAA SIP. RW Qual. Time: 5,000 Hrs./Cst 200 AM/4.

Record, Ernest C., (CW4) (M91) (Ernie) 415 Robin Lane, Enterprise, AL 36630. Dy: (205) 255-6030. Res: (205) 347-7816. S: Denise. Dy: Chief of Standards, Lowe AHP. Rtg: IFE SIP. RW Qual. Time: 6,800 Hrs./Cst 752 DFC/1, AM/30.

Reed, Dennis A., (CW4) (M86) 2071 Rowbury Lane, Clarksville, TN 37043. S: Linda. Dy: Instrument Pilot Examiner, Ft. Campbell. Rtg: MAA IFE SIP. RW Qual. Time: 7,200 Hrs./Cst 1,225 DFC/2, AM/2.

Reese, Greg, (CW4) (M90) (Joern) Unit 15429, APO AF 96257-0482. S: Carmen. Dy: Instrument Flight Examiner. Rtg: AA. RW Qual. Time: 5,800 Hrs./Cst 1,200 DFC/1, AM/22.

Reiley, Vincent L., (WO1) (M91) (Louie) 308 B Colony Drive, Enterprise, AL 36630. Dy: (205) 255-4006. Res: (205) 393-2093. S: Jennifer. Dy: H1D, 21st AG REPL BN, Germany. PMOS/SSI, 152F, AH-64. RW Qual. Time: 210 Hrs.

Reinhart, Ronald L., (CW3) (M82) (Rocket) 2201 E. 53rd Avenue, Anchorage, AK 99507-1633. Dy: (907) 863-3116. Res: (907) 563-7804. S: Sompian. Dy: B Co, 4123 Avn Regt, Fort Richardson, AK. Rtg: SAA. RW Qual. Time: 2,050 Hrs. Life Member.

Reno, Alice A., (CW3) (M82) 94-621 Anania Ct,

R Aviation Warrant Officer Directory

No. 140, Millant Town, HI 96789. Dy: (808) 656-1359. Res: (808) 625-2141. Dy: Armament Plt Lead, H Co, 25th Avn Regt, Schofield Bks. Rtg: AA.

Rene, Richard, (CW2) (M82) (Rich) HHC, 3d COSCOM, Materiel, APO New York 09147-5000. Dy: 337-5589. Res: 0611-719161. S: Trisha. Dy: Chief, Aviation Branch, Wiesbaden AB, Germany.

Reynolds, Paul D., (CW2) (M86) 10604 Aero Vista, Fort Bliss, TX 79908. Dy: (915) 568-8655. Res: (915) 562-2051. S: Lisa. Dy: Atk Hqtr Pilot. Rtg: AA. RW Qual. Time: 1,200 Hrs./Cst 30 AM/1.

Rice, Alfred L., (CW3) (M91) (Al) 203 Oakleaf Drive, Enterprise, AL 36630. Dy: (205) 255-4486. Res: (205) 347-3568. S: Mavis. Dy: Instructor Pilot, B Co, 1-14th Avn Regt. Rtg: P. RW Qual. Time: 2,200.

Richardson, Craig S., (WO1) (M89) (Bill) 5115-1 Pelham, Fort Riley, KS 66442. Dy: (913) 238-2227. Res: (913) 784-6684. S: Donna. Dy: UH-60 Pilot, E/41 Avn Regt. RW Qual. Time: 600 Hrs./Cst 200 AM/2.

Richardson, Herman R., (CW4) (M89) Route 1, Box 151, Eagle Springs, NC 27242. Dy: (919) 396-9713. Res: (919) 487-1947. S: Pamela. Dy: Pilot, A2-158th Avn Regt. MTP. RW Qual. Time: 4,000 Hrs./Cst 1,000 AM/2.

Ring, Anthony D., (WO1) (M84) (Tony) P.O. Box 21, Yorkers, NY 10702. Dy: (212) 327-2183. Res: (914) 423-1209. S: Julie. Dy: Manpower Devt SpecOps Dept Labor. Rtg: AA. RW Qual. Time: 890 Hrs. Life Member.

Rittenour, Andrew M., (WO1) (M90) 433-C Tradeville Drive, Fayetteville, NC 28314. Res: (919) 487-2869. S: Nilda. Dy: UH-60 Pilot, 282nd Avn Bde. RW Qual. Time: 300 Hrs./Cst 8.

Rivers, Patrick L., (CW3) (M87) (Pat) 401 Twin Creek Drive, No. 1, Killeen, TX 76543. Dy: (817) 287-9994. Res: (817) 690-1357. S: Mary. Dy: Ft Safety Tech, Atk Hqtr Pilot, 5/17 Cav, 2 ID Korea. Rtg: SAA. RW Qual. Time: 1,500 Hrs.

Roben, Christopher, (WO1) (M91) (Chris) 2851 Michael Road, Warrington, NY 11799. Res: (516) 221-8293. Dy: 2d Id, E Troop 5/17 Cav, Camp Mobile, Korea. RW Qual. Time: 360 Hrs.

Roberts, Floyd W., (CW4) (M76) E Company, 502nd Aviation Regiment, APO New York 09293. Dy: 6324-7409. Res: 0039-0434-560308. S: Irene. Dy: Maint Plt. Rtg: MAA TP. RW Qual. Time: 5,100 Hrs./Cst 950 AM/18.

Roberts, William C., (CW3) (M76) (Billman) Route 3, Box 1, W. Forest Park Road, Denville, AL 36322. Dy: (205) 255-4711. Res: (205) 568-2582. S: Debbie. Dy: AH-64 Instructor Pilot, B Co, 2229. Rtg: SAA P. RW Qual. Time: 2,100 Hrs./Cst 40 AM/2, 2V. Past Vp, Wings Of The Mame Chapter.

Robertson, Dominic B., (CW2) (M89) (Dom-Nick) P.O. Box 101 Main Street, Woodbury, NY 12789-0101. Res: (914) 434-5110. Dy: Hqtr UH-1H, 5158 Avn Regt, Maurice Rose Air Base, Frankfurt, Ge. Rtg: AA. RW Qual.

Robichaux, John C., (CW4) (M71) 22nd Aviation Det., APO New York 09169-2764. Dy: 049-6331-86-7274. Res: 049-6331-9947. S: Sun. Dy: Plmssen, Germany. Rtg: MAA P TP MTP. RW Qual. Time: 4,000 Hrs.

Robinson, Thomas E., (CW2) (M91) 200 K Hibiscus Street, Honolulu, HI 96818. Dy: (808) 656-1069.

Res: (808) 836-1175. Dy: HHC Avn. Bde. Schofield Barracks, HI. RW Qual. Time: 1,200 Hrs.

Robison, Roy L., II, (CW3) (M81) 5196 Remington Road, Fayetteville, NC 28311. Dy: (919) 432-7724. Res: (919) 822-5177. S: Rosalee. Dy: USASOC, Fort Bragg. Rtg: SAA SIP. RW Qual. Time: 3,120 Hrs.

Robling, David P., (CW2) (M88) (Dave) P.O. Box 819, Black River, NY 13612. Dy: (919) 772-4000. Res: (919) 773-6406. S: Sandy. Dy: Division Avn Maint Off, 10th DISCOM/OMMC, Fort Drum NY. Rtg: AA. Time: 45 Hrs./Cst 6 Life Member.

Rogers, Gregory A., (CW3) (M88) 200 Graceland Circle, Ozark, AL 36360. S: Taby. Dy: Degree Completion, Troy State at Dothan. Rtg: SAA P MTP. RW Qual. Time: 1,700 Hrs. Past Vp, Redcatcher Chapter.

Rogers, James R., (CW2) (M89) (Ron) 51782-3 Comanche Circle, Fort Hood, TX 76844. Dy: (817) 287-3767. Res: (817) 539-6337. S: Suzanne. Dy: UH-60 Pilot. Rtg: AA. RW Qual. Time: 730 Hrs.

Rogers, Wilbur W., (WO1) (M89) 1255-C Harlan Road, Fort Shafter, Honolulu, HI 96819. Dy: (808) 656-2556. Res: (808) 841-6921. S: Dawn. Dy: B Co, 4/25 Avn Regt, Schofield Barracks. Rtg: AA.

Rogie, Matthew K., (WO1) (M90) B Co., 2501st Aviation, Box B-12, APO San Francisco 96271. Dy: CH-47D Pilot, Camp Humphries, Korea. RW Qual. Time: 320 Hrs.

Rohrer, James A., (CW4) (M75) (Smoky) P.O. Box 4366, Patrick AFB, FL 32925. Dy: (407) 494-5282. Res: (407) 779-3131. S: April. Dy: 481st Airwing, Patrick AFB. Rtg: MAA IP. RW Qual. Time: 6,850 Hrs./Cst 991 DFC/AM25, IV.

Roller, Byron L., (CW3) (M84) 33247 North Argonquin Dr., Graylake, IL 60030-1556. Dy: (708) 926-6707. S: Kathleen. Dy: Act Maint Tech, Ft. Sheridan. Rtg: AA TP MTP. Time: 1,300 Hrs.

Rooker, James R., (WOC) (M91) (Radar) CWR 2, Box C-12222, Fort Rucker, AL 36362. S: Penni. RW Qual. Time: 150 Hrs.

Rose, David J., (MW4) (M85) 3202 Kings Arms Court NE, Atlanta, GA 30345-2153. Dy: (404) 669-7056. Res: (404) 934-9669. S: Freda. Dy: ASCO, FORSCOM, Ft. McPherson, GA. Rtg: MAA. RW Qual. Time: 1,000 Hrs. Past Vp, Aloha Chapter.

Rose, Victor L. Jr., (MW4) (M85) (Vic) 5606 Rhyewood Lane, Fayetteville, NC 28311. Dy: (919) 396-9735. Res: (919) 822-6282. S: Patricia. Dy: B Co Avn Maint Off, Ft. Bragg. Rtg: MAA MTP. RW Qual. Time: 3,300 Hrs./Cst 571 AM/22. Past Snp, Stuttgart Chapter.

Rowe, Gary D., (CW4) (M84) HHC, 11th Avn Bde, Box 75, APO New York 09140. Dy: 467-4542. Res: 09841-4806. S: Beth. Dy: 11th Bde Right Standardization Officer, Ilesheim, Germany. Rtg: MAA IFE SIP. RW Qual. Time: 5,500 Hrs./Cst 55.

Russo-Downey, Jill G., (WO1) (M90) (Arwen) 377th Medical Company(A), Box 283, K-16, APO San Francisco 96301. Dy: (205) 255-6691. Res: (914) 534-8072. S: James. Dy: Aviator-UH-60. RW Qual. Time: 320 Hrs.

Rutledge, Robert D., (CW2) (M89) 7278 Quarters B, Colorado Springs, CO 80913-2278. Dy: (719) 579-2555. S: Debra. Dy: AH-64 Pilot, C/4 Avn Regt. RW Qual. Time: 1,000 Hrs.

Ryan, Anthony F., (CW2) (M86) (Tonan) 101 Twin Creek Road, No. 804, Killeen, TX 76543. Dy: (817) 287-6650. Res: (817) 699-0777. S: Denise. Dy: I Co, 158th Avn, Ft. Hood. Rtg: MTP. RW Qual. Time: 1,000 Hrs.

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Samsel, Daniel R., (CW3) (M90) 3402-B Kanell Loop, Wahiawa, HI 96786. Dy: (808) 856-2541. Res: (808) 624-4823. S: Basia. Dy: Pilot. C Co, 425 Avn Regt. Rtg: MTP. RW Qual. Time: 2,250 Hrs. AM/3.

Samuelson, Mark P., (CW4) (M84) 2418 Sandy Drive, Clarksville, TN 37043. S: Marsha. Dy: Maintenance Tech/Test Pilot. C Co, 7101 Avn Regt. Rtg: AA IP TP IFE. RW Qual. Time: 3,600 Hrs/Cdt 800 AM/23.

Sangland, Rodney L., (CW3) (M89) (Sande) PSC No. 01, P.O. Box 252, APO AA 34001-5000. S: Diane. Dy: Bn SIP. HQ 1-228th Avn. Panama. Rtg: SIP. RW Qual. Time: 3,300 Hrs/Cdt 40 AM/1, IV.

Sapp, Kent T., (WO1) (M89) PSC Box 5047, APO Miami 34001. Dy: UH-60 Pilot. A Co, 1-228 Avn, Fort Kobbe, Panama. Rtg: AA. RW Qual. RW Qual. Time: 1,050 Hrs.

Saunders, William D., (MW4) (M88) (Bil) HHC 1st PERSCOM, OFMD, APO New York 09081. Dy: 379-6444. S: Marianne. Dy: AVN WO Assignment Officer. Rtg: MAA IP. RW Qual. Time: 6,500 Hrs/Cdt 1,049 DCA/21, AM/23.

Savell, Douglas W., (WO3) (M91) (Blades) 1298 S. Union Avenue, Apt. L-3, Ozark, AL 36360. Dy: (205) 255-6891. Res: (205) 774-1286. S: Jackie. Dy: B Co, 1/145th Avn Bde. Rtg: IP. RW Qual. RW Qual. Time: 341 Hrs.

Scheel, Michael A., (WO1) (M89) A Troop, 216 Cavalry, Box 99, APO New York 09140-5000. Dy: OH-58 Scout Pilot, Ilesheim, Germany. RW Qual. Time: 470 Hrs/Cdt 105

Scheller, Michael L., (CW2) (M91) (Mike) 377th Medical Company AA, P.O. Box 352, APO San Francisco 96301. S: Melissa. Dy: Evaluation Pilot, K6 AB, Seoul. Rtg: AA. RW Qual. Time: 1,300 Hrs.

Schneider, Charles E., (CW3) (M82) (Chuck) G Company, 3rd Avn Regt., Box 55, APO New York 09182. Dy: 352-7356. Res: 09337-1549. S: Linda. Dy: Tech Supply Officer, Geiselstadt AAF. Rtg: AA TP. RW Qual. Time: 1,500 Hrs. AM/1.

Schneider, Michael R., (CW4) (M83) (Mike) 5 Laporte Street, Fort Bragg, NC 28307. Dy: (919) 306-2209. Res: (919) 436-2876. S: Nancy. Dy: Avn Maint Tech, D Co (AMC), 82nd Avn Bde. Rtg: AA. AM.

Schock, James D., (CW4) (M89) A Company, 2nd Battalion, Box 3236, APO New York 09250-5000. Dy: 152 F, AH-64 Pilot, Ansbach, Germany. RW Qual. Time: 500 Hrs/Cdt 25 AM/2.

Schuchman, John R., (CW3) (M88) HHT Troop, 411th ACR, Box 263, APO New York 09146. Dy: 321-3754. S: Carla. Dy: Squadron Safety Officer, Fulda, Germany. RW Qual. Time: 1,700 Hrs.

Schultz, Gregory T., (CW3) (M90) (Greg) 27 Arnold Ave., Apt. 14, Fort Riley, KS 66442. Dy: (913) 239-2004. Dy: AH-1F SPW/C. C Trp, 1-4 Cav, Fort Riley, KS. Rtg: IFE SIP IP. RW Qual. Time: 2,000 Hrs/Cdt 50 AM/4, 2V. VP, Mid-America Chapter.

Schurr, Robert J., (CW4) (M76) (Bob) 15 Diamond Circle, Fort Rucker, AL 36362. Dy: (205) 255-4086. Res: (205) 598-6770. S: Sylvia. Dy: IP, F1-14th, Fort Rucker. Rtg: MAA IP. RW Qual. Time: 7,200 Hrs/Cdt 1,500 AM/36.

Schwartz, Mark S., (CW3) (M82) 250 Milestone Circle, Clarksville, TN 37042. Res: (615) 553-4217. S: Jane. Dy: 2/160th D Co, Fort Campbell. Rtg: MTP SAA TP. RW Qual. Time: 1,700 Hrs.

Scott, Robert A., (CW4) (M75) (Scottie) HHC

Aviation Warrant Officer Directory

1/501st Aviation Bn., APO San Francisco 96301-5000. S: Mina. Rtg: MAA. RW Qual. Time: 5,969 Hrs/Cdt 1,292 AM/36.

Schmer, Steven C., (CW2) (M89) (Sch) 2701 Sidewinder Drive, Killeen, TX 76542. Dy: (817) 287-9915. Res: (817) 634-4596. Dy: Pilot. RW Qual. Time: 750 Hrs.

Scroggs, Stephen W., (CW2) (M85) (Steve) 105 Karen Drive, Ozark, AL 36360. Dy: (205) 255-3223. Res: (205) 774-6160. S: Linda. Dy: OH-58 Hcptr Pilot, E1-14th, Fort Rucker. Rtg: IP. RW Qual. RW Qual. Time: 2,100 Hrs.

Selle, Robert F., (WO1) (M89) O Troop, 4/11 ACR, Box 258, APO New York 09146. Dy: Fulda, Germany. RW Qual. Time: 650 Hrs.

Shaner, Gary A., (CW4) (M90) 7411 Van Noy Court, Fort Meade, MD 20755. Dy: (301) 677-2236. Res: (301) 672-3382. S: Sherie. Dy: 1st US Army Aviation Readiness Group SIF, Fort Meade. Rtg: SIF. RW Qual. RW Qual. Time: 4,200 Hrs/Cdt 700 AM/24.

Sheehan, J. Patrick, (CW4) (M89) (Pat) 302 Willow Oaks Drive, Ozark, AL 36360-6206. Dy: (205) 255-2427. S: Sharon. Dy: Standardization Instructor Pilot, DES, Fort Rucker. Rtg: MAA SIF. RW Qual. Time: 4,300 Hrs/Cdt 600 AM/3.

Sherry, Scott A., (WO1) (M90) A Company, 2-2 Aviation Regiment, APO San Francisco 96524. Dy: 732-5332. Res: (205) 270-8206. S: Laura. Dy: 2nd ID, South Korea, Camp Stanley. RW Qual. Time: 1,830 Hrs.

Shoemaker, James, (CW4) (M80) (Shoe) 114 Nancy Drive, Killeen, TX 76542. Dy: Production Control Officer, Fort Hood. Rtg: MAA TP MTFE. RW Qual. Time: 2,600 Hrs/Cdt 150 AM/1.

Shoemaker, John A., (CW4) (M83) (Tony) 207th Aviation Company, Box 125, APO New York 09102. S: Cheryl. Dy: C12 Pilot. Rtg: MAA. RW Qual. RW Qual. Time: 8,000 Hrs/Cdt 700 DFO/5, AM/21.

Sickmeier, David, (CW3) (M91) 3004 Little Nolan Road, Killeen, TX 76542-3214. Dy: (817) 288-3030. Res: (817) 690-7139. S: Janice. Dy: Safety, Fort Hood. RW Qual. Time: 1,350 Hrs/Cdt 24 AM/1.

Silvestre, Luis, (CW3) (M80) (P.O.) Box 4845, Carolina, PR 00984. Dy: (809) 722-3916. Res: (809) 726-4508. S: Irma. Dy: Standardization Instr Pilot, USA PRARNG. Rtg: AA. RW Qual. RW Qual. Time: 16,000 Hrs.

Simko, Edward W., (CW4) (M83) (Ed) PSC Box 489, APO New York 09063. Dy: 370-8922. Res: 06234-8487. S: Janis. Dy: OODS OPS-AV, Heidelberg Ger. HOS, U.S. Army Europe. Rtg: MAA IFE SIF. RW Qual. Time: 5,500 Hrs/Cdt 341 DFO/1, AM/19.

Simmons, Michael J., (WO1) (M91) (Mike) 505 Briarwood Court, Apt. D-6, Enterprise, AL 36330-2288. Dy: (205) 255-4046. Res: (205) 447-4097. S: Lisa. Dy: Night School Student, AH-1 AQC, D Co, 1-13th Avn. RW Qual. Time: 150 Hrs.

Singer, Bruce L., (CW4) (M91) 128 Foxhill Drive, Enterprise, AL 36330-1608. Dy: (205) 558-2442. Res: (205) 393-1009. S: Sharon. Dy: DES SIF Utility Branch, Fort Rucker. Rtg: MAA SIF. RW Qual. Time: 7,000 Hrs/Cdt 1,608 AM/21.

Sizemore, Randall D., (CW4) (M75) (Randy) 1415

Meadowlark Lane, Petaluma, CA 94954. Dy: (415) 561-2611. Res: (707) 769-8969. S: Karen Sue. Dy: Avn Ofcr, 8th Army Headquarters, Hamilton AAF. Rtg: MAA SIF IFE. RW Qual. Time: 3,500 Hrs. Life Member.

Sloaden, Richard A., (CW4) (M67) (Dick) 2901 Willowbend Drive, Killeen, TX 76543. Dy: (817) 288-9895. Res: (817) 525-5401. S: Bettie. Dy: A Co, 15 MI BN (AB), Fort Hood. Rtg: MAA SIF MTP. RW Qual. RW Qual. Time: 6,690 Hrs/Cdt 1,854 DFO/2, AM/39.

Slommer, Timothy B., (CW4) (M85) (Tim) HHC 1st PERSCOM, ATTN: OPMD, APO New York 09081. Dy: 379-6444. S: Midge. Dy: Avn WO Assignment Officer, USAFELR, Schweinfurt, Ger. Rtg: AA SIF IP. RW Qual. Time: 3,000 Hrs.

Slaughter, Thomas E., (CW4) (M80) (Tom) 13 Thurman Drive, Lawton, OK 73501. Dy: (405) 351-5619. S: Toni. Dy: MTP, 2A/2-158th Avn Regt. Rtg: MAA TP. RW Qual. Time: 4,000 Hrs/Cdt 420 AM/17.

Smith, Bernard H., (WO1) (M91) (Bernie) 2004 Harrow Place, Fayetteville, NC 28304-5661. Dy: (919) 396-7776. Res: (919) 423-4909. S: Cindy. Dy: UH-60 Pilot, B Co, 2/82nd Avn, Fort Bragg. RW Qual. Time: 175 Hrs.

Smith, Bryan H., (CW3) (M83) (Bryan) 2904 Arbor Drive, Manhattan, KS 66502-3104. Dy: (913) 239-8151. Res: (913) 776-1857. S: Jan. Dy: SIF OH-58D, Fort Riley, 1st Inf Div. Rtg: SAA SIF. RW Qual. Time: 3,000 Hrs/Cdt 100

Smith, Gary S., (CW3) (M82) (C Co, 3-3rd Avn, APO New York 09182. S: Vick. Dy: AH-1F Instructor Pilot. Rtg: SAA IP. RW Qual. Time: 1,800.

Smith, James D., (CW4) (M70) (J.D.) 602 Walnutwood Road, Ft. Wainwright, AK 99703. Dy: (907) 353-6656. Res: (907) 356-3050. S: Hyong San. Dy: Avn Maint Officer, D Trp, 49 Cav Sqdn. Rtg: AA SIF TP MTP. RW Qual. Time: 4,500 Hrs/Cdt 790 AM/14.

Smith, Larry E., (CW3) (M89) 2001 Sunset Street, Killeen, TX 76543. Dy: (817) 288-2572. Res: (817) 699-3396. S: Geneva. Dy: UH-60 Instructor Pilot, D Trp, 1-4 Cav, Fort Hood. Rtg: SAA IP. RW Qual. Time: 1,900 Hrs.

Smith, Michael E., (CW2) (M89) (Mike) 5661-2 Large Street, Fort Hood, TX 76544. Dy: (817) 288-3661. Res: (817) 539-3978. Dy: BUIHMO Test Pilot, 1 Co, 158th Avn, 13 OODSCOM, Fort Hood. Rtg: MTP. RW Qual. Time: 1,200 Hrs.

Smith, Michael E., (CW2) (M89) (Mike) S Troop, 42 ACR, Box 10001, APO New York 09092-0216. Dy: 461-4822. Res: 0911-402063. S: Cassandra. Dy: UH-60 Pilot, Feucht AAF. Rtg: AA. RW Qual. Time: 900 Hrs/Cdt 82

Smith, Paul W., (CW4) (M70) (Pete) 11325 Gene Sarazen, El Paso, TX 79936. Dy: (915) 568-8007. Res: (915) 565-1151. S: Marilyn. Dy: T Trp, 4 Sqdn, 3d ACR, OGDME, Fort Bliss. Rtg: MAA TP. RW Qual. Time: 5,400 Hrs/Cdt 1,700 AM/51.

Smith, Robert L., (CW4) (M77) (Bob, RL) P.O. Box 3063, APO New York 09224. S: Colin. Dy: Maint Ofcr, LSE Avn, Izmir, Turkey. Rtg: MAA MTP. RW Qual. RW Qual. Time: 7,000 Hrs/Cdt 555 AM/18.

Smith, Steven R., (WO1) (M91) 19 Olsen Drive, Fort Rucker, AL 36362-2315. Dy: (205) 255-6640. Res: (205) 598-9454. S: Kristine. Dy: WO1 Aviation Pilot, D1-13th. RW Qual. Time: 488 Hrs.

Smith, William H., (CW3) (M91) 607 Chickasaw Road, Enterprise, AL 36330. Dy: (205) 255-2414. Res: (205) 393-3070. Dy: IP, B Co, 1-212th. Rtg: IP. RW Qual. Time: 3,200 Hrs.

Snothen, Mark V., (WO1) (M89) 3805-C Porter Loop, Wahiawa, HI 96786. Dy: (808) 656-2556. Res:

(806) 624-8017. S. Ter. Dir. UH-1 Pilot, A Co, 425 Avn.

Snow, Sharon M., (CW2) (M85) 159th Medical Company, CMR 1237, APO New York 09175. Dir: UH-60 Instructor Pilot, Darmstadt, W. Germany. Rtg: AA IP. RW Qual. Time: 1,700 Hrs.

Solida, Carl L., (CW2) (M88) 68-047 Aphuli Street, Apt. 101, Wailua, HI 96791. Dir: (808) 675-2617. Res: (808) 637-4658. Dir: A Co, 125 Avn Regt. Rtg: AA IP. RW Qual. Time: 600 Hrs.

Sondag, John P., (CW3) (M89) (Jack) B Company, 3-1 AHB, Box 3192, APO New York 09250. S. Helen. Dir: Pilot. Rtg: MTP SAA. RW Qual. Time: 2,000 Hrs./Cdt 80 AM/1.

Sparks, Michael R., (CW4) (M82) (Chispas) 31 E. Harris Drive, Fort Rucker, AL 36362. Dir: (205) 255-6250. Res: (205) 598-1964. S. Wendy. Dir: IP E1-223rd Avn Regt, Platoon Cdr, OAA. Rtg: SAA IP MTP. RW Qual. Time: 4,500 Hrs. Past VP, Ist-hm Chapter.

Spreading, Michael D., (CW4) (M91) (Mike) 303 Windsor Way, Enterprise, AL 36330. Dir: (205) 255-3310. Res: (205) 347-5601. S. Judith. Dir: Executive Officer, E Co, 1212th Avn, Fort Rucker. Rtg: IP SAA. RW Qual.

Stallnecht, David K., (CW2) (M89) (Chinook) 57341 Bailey Street, Fort Hood, TX 76544. Dir: (817) 287-7007. Res: (817) 539-6608. S. Cindy. Dir: Chinook Pilot, B Co, 2158 Avn Regt, 6th Cav Bde. Rtg: AA. RW Qual. RW Qual. Time: 3,100 Hrs./Cdt 130 AM/2.

Standford, Blaine, (WO1) (M91) (Hoagy) 1907 Pleasant Lane, Coppens Cove, TX 76522. Dir: (817) 287-5332. Res: (817) 542-8176. S. Mary-Made. Dir: A Top 4/6 Cav, Fort Hood, AH-64 Pilot. Rtg: AA. RW Qual. Time: 280 Hrs.

Starr, Brent R., (CW2) (M85) A Company, 22d Aviation Regiment, APO San Francisco 96324-0461. Dir: 732-5332. Res: 732-5318. S. Anita. Dir: UH-60 IP, Camp Stanley, Korea. Rtg: IP. RW Qual. RW Qual. Time: 1,900 Hrs.

Starham, Stacy, (CW3) (M86) 1st SBMFO, APO New York 09832. Res: (315) 773-4695. S. Sibby. Dir: UH-1 Pilot, Sinai, Egypt. Rtg: SAA. RW Qual. Time: 2,025 Hrs.

Steele, Richard L., (CW4) (M82) (Rick) 205 Willowood Drive, Enterprise, AL 36330-1593. Dir: (205) 255-5716. Res: (205) 393-2444. S. Linda. Dir: SIP, F Co, 1-14th Avn Regt. Rtg: SAA IP. RW Qual. Time: 4,500 Hrs.

Stephens, Michael W., (CW2) (M85) C Co, 9/227th ASB, Box C-210, APO New York 09165-1824. Dir: Shops Plt Ldr, Hanau, Ger. Rtg: SAA MTP. RW Qual. Time: 1,881 Hrs. AM/2.

Stephens, Steve H., (CW2) (M89) (Mr Tact) 127 Myles Lou Avenue, Coppens Cove, TX 76522-2024. Dir: (817) 289-1106. Res: (817) 547-6766. S. Renate. Dir: B Co, 15th Mil Bn (AE), Fort Hood. RW Qual. RW Qual. Time: 2,450 Hrs./Cdt 135

Stapp, William K., (CW4) (M88) (Keith) 928 Phion Drive, Barstow, CA 92311. Dir: (619) 386-6036. S. Melba. Dir: Act Maint Otr, K-16 Seoul, Korea. Rtg: SAA TP. RW Qual. Time: 3,150 Hrs.

Stevens, Joseph D., (CW4) (M90) (Joe) 9013-B Coblenz Circle, Fort Drum, NY 13603. Dir: (315) 772-4639. Res: (315) 773-7421. S. Debbie. Dir: UH-60 MTFE, D Co, 325 Assault Hadr Bn. Rtg: MAA MTP MTFE. RW Qual. Time: 3,800 Hrs./Cdt 652 AM/2.

Stevenson, Harry R., (CW4) (M86) (Dirt) H 7939 Gambro Court, Springfield, VA 22153. Dir: (301) 981-7885. Res: (703) 455-3144. Dir: USAPAT C20C21, Andrews AFB. Rtg: MAA SIP IFE. RW



Aviation Warrant Officer Directory

Qual. RW Qual. Time: 12,300 Hrs./Cdt 1,600 DFC2, AM/2.

Stoffa, John R. Jr., (CW4) (M90) (Jack) 12 Lannigan Drive, Lawrenceville, NJ 08648. Dir: (609) 530-4260. Res: (609) 883-4260. S. Bob. Dir: Helicopter Pilot/Unit Trng Off, Co. B, 1st Bn, 150th Avn, NIAAR. Rtg: MAA MTP. RW Qual. RW Qual. Time: 4,200 Hrs.

Stoneling, Frank L., (CW3) (M89) 104 Harrison Drive, Route 1, Daleville, AL 36322-9531. Dir: (205) 255-5223. S. Faye. Dir: Instructor Pilot. Rtg: AA IP. RW Qual. Time: 3,000 Hrs.

Story, Thomas W., (CW2) (M85) 52330 2 Cayuga Court, Fort Hood, TX 76544-1042. Dir: (817) 287-9915. Res: (817) 539-6621. S. Barbara. Dir: B Tnp, 3-6 Cav, 6 Cav Bde (AC), Fort Hood. Rtg: IP. RW Qual. Time: 1,200 Hrs.

Strine, Jay D., (CW2) (M85) (Jaybo) 5874 E. Century Oaks Dr., Fayetteville, NC 28314. Dir: (919) 395-6285. Res: (919) 664-6671. Dir: EH 60 Pilot, C Co, 282 Avn Regt, Fort Bragg. Rtg: AA. RW Qual. Time: 1,600 Hrs./Cdt 45 AM/1.

Strueme, Charles W., (CW4) (M78) (Chuck) 2949 South Biscay Street, Aurora, CO 80013. Dir: (303) 361-3501. Res: (303) 690-8737. S. Rick. Dir: 6th Army Avn Readiness Group, Denver, CO. Rtg: MAA SIP. RW Qual. Time: 5,300 Hrs./Cdt 1,270 AM/1, 1V. Past Treas, Hanau Chapter.

Sullivan, Kyle P., (CW3) (M85) 109 Caldwell Court, Daleville, AL 36322. Dir: (205) 255-4662. Res: (205) 598-6285. S. Lynn. Dir: IP, D Co, 114 Avn Regt. Rtg: SAA IP. RW Qual. Time: 2,140 Hrs.

Sullivan, Randall C., (CW4) (M90) (Randy) 2907 Bermuda Drive, Killeen, TX 76542. Dir: (817) 289-9115. Res: (817) 634-3448. S. Valerie. Dir: Avn Safety Off, 3/507th Med Co (AA), Fort Hood. RW Qual. Time: 2,600 Hrs./Cdt 102 AM/3.

Sumrow, Anthony C., (WO1) (M89) (Tigger) 324 Hayes Circle, Fort Ord, CA 93941-1022. Dir: (408) 242-2733. Res: (408) 384-2362. S. Maxine. Dir: C Co, 1/123rd Avn Bde, Ft Ord. Rtg: AA. RW Qual. Time: 600 Hrs.

Sund, Steven T., (CW2) (M88) (Steve) C Company, 2/227th Aviation, APO New York 09165. S. Mary. Dir: C Co, 2/227th Avn, Hanau, Germany. Rtg: AA. RW Qual. Time: 400 Hrs./Cdt 20 AM/2.

Sutton, John W., (CW4) (M88) 521 McAndrew Road, Wailua, HI 96786. Dir: (808) 438-1078. Res: (808) 624-2100. S. Pamela. Dir: Avn Safety Off, U.S. Army Pacific Command. RW Qual. Time: 2,000 Hrs.

Sweeney, Harry W., (MW4) (M89) (Easy) 101 Chestnut Drive, Enterprise, AL 36330. Dir: (205) 255-4619. Res: (205) 393-4242. S. Patricia. Dir: Special Assistant to CG. Rtg: MAA SIP IP TP. RW Qual. Time: 4,000 Hrs.

Swickard, Jeffrey M., (MW4) (M82) 17 Diamond Circle, Fort Rucker, AL 36362. Dir: (205) 255-5198. Res: (205) 598-8628. S. Charlotte. Dir: Aerospace Flight Inspection Pilot, USAF/CATC. Rtg: MAA IFE SIP. RW Qual. RW Qual. Time: 5,800 Hrs./Cdt 660 AM/19. Past Sec, Schweizerlich Hall Chapter.

Syjak, Richard J., Jr., (WO1) (M91) 979-13 Stewarts Creek Dr., Fayetteville, NC 28314. Dir: (919) 487-6487. Res: (919) 396-2315. Dir: A Co, 182nd

Avn, Fort Bragg. RW Qual. RW Qual. Time: 3,600.



Tabert, Lawrence E., (CW4) (M86) (Larry) 109 Washington Avenue, Enterprise, AL 36330. Dir: (205) 255-4630. Res: (205) 393-3344. S. Jan. Dir: UH-60 Sds Off, AFB, Fort Rucker. Rtg: MAA IFE SIP. RW Qual. Time: 4,200 Hrs./Cdt 450

Tabron, Donald F., (CW3) (M88) HHC, 4th Brigade, Box 9, APO New York 09182. Dir: 352-7325. Res: 01149-0334-725. Dir: OH-58 SIP, Giebelstadt AAF, Germany. Rtg: SAA. RW Qual. Time: 4,100 Hrs.

Tanner, Richard H., (WO1) (M90) (Rich) 139 Traynor Avenue, Savannah, GA 31405. Dir: (912) 352-6366. Res: (912) 354-8654. S. Juanita. Dir: Apache Pilot, 1-24 Avn, HAAF. RW Qual. Time: 260.

Tauben, Robert A., (CW3) (M88) 95-361 Kushiaki Avenue, Apt. 8-4, Milani, HI 96789-1178. Dir: (808) 656-1348. Res: (808) 623-0225. S. Leanne. Dir: SP-Ops Off, E Co, 214 Avn Regt. Rtg: SAA SIP. RW Qual. Time: 3,500 Hrs.

Taylor, Mark H., (CW2) (M89) 852 Danish Drive, Fayetteville, NC 28303. Dir: (919) 396-1820. Dir: Pilot, C/1-17 Cav. RW Qual.

Thieleman, Martin A., (CW4) (M84) (Marty) C Co, 9/1 Avn Regt., Box 2006, APO New York 09250. Dir: 467-2562. Res: 09802-8737. Dir: AH-1S TP, MTFE, Ansbach, Germany. Rtg: AA TP MTP. RW Qual. Time: 3,500 Hrs./Cdt 625 DFC1.

Thielke, Donald G., (CW4) (M80) (Don) 140-A Juneau Avenue, Fort Richardson, AK 99505-1012. Dir: (907) 863-1200. Res: (919) 428-2990. S. Kately. Dir: UH-1 IP, Ops Off, Fort MAA IP. RW Qual. Time: 5,200 Hrs./Cdt 1,148 DFC1, AM/2.

Thomas, Rodney M., (CW4) (M86) (Rod) P.O. Box 620333, Fort Rucker, AL 36362. Dir: (205) 255-3223. Res: (205) 598-5200. S. Jenelle. Dir: IP OH-58, E-1-14. Rtg: MAA IP. Time: 4,900 Hrs.

Thompson, Christopher, (CW2) (M88) (Eddie) 1 Laportie Street, Fort Bragg, NC 28307-1830. Dir: (919) 396-2315. Res: (919) 436-6817. S. Patricia. Dir: AH-64 Pilot, A Co, 1-82nd Avn Bde. Rtg: AA. RW Qual. Time: 371 Hrs./Cdt 37 AM/1.

Thompson, Larry K., (CW4) (M90) (Butch) Box 3328, A Co, 2nd Bn 1st Avn Regt, APO New York 09250. S. Sherril. Dir: AH-64 IP IFE. Rtg: IFE IP. RW Qual. Time: 2,900 Hrs./Cdt 15 AM/2.

Thompson, Robert H., (CW4) (M85) (Not Bob) 27676 Crestview, Barstow, CA 92311. Dir: (619) 368-3265. Res: (619) 252-3944. S. Lesley. Dir: UH-60 Instructor Pilot, 247th Med Det. (PA) Ft. Irwin, CA. Rtg: SAA SIP. RW Qual. Time: 2,600 Hrs.

Tigano, Frank A., (CW4) (M88) Route 2, Box 713, Anacoco, LA 71403. Dir: 011-504-378833. Res: (318) 239-7467. S. Madeline. Dir: Pilot, UH-1, B Co, 4/228 Avn Regt, Honduras. RW Qual. Time: 1,800 Hrs./Cdt 1,000 DFC4, AM/28.

Todd, Ronald M., (WO1) (M89) C Troop, 214 Cav, Hunter Army Airfield, Savannah, GA 31408. Res: (912) 353-8218. S. Michele. RW Qual. Time: 250 Hrs./Cdt 50 AM/1.

Tomczyk, Ted, (CW2) (M86) B Troop, 5/6 Cavalry, APO New York 09457. Dir: Apache Pilot, Wesbaden Germany. Rtg: AA. RW Qual. Time: 600 Hrs./Cdt 29

Torney, James V., (CW4) (M73) (Jim) 689 Little Dean Circle, Newport News, VA 23602. Dir: (804) 878-6660. Res: (804) 872-7446. S. Gloria. Dir: AH-64 Pilot, OASALS, Ft. Eustis. Rtg: SAA TP. RW Qual. Time: 1,400 Hrs. Life Member. Past VP, Aloha Chapter.

Toth, Ronald M., (CW3) (M91) (Ron) 504 Ingoles

Street, Enterprise, AL 36330. Dy: (205) 255-6418. Res: (205) 347-3215. S: Jody. Dy: Safety Officer/PIFE. Rtg: IFE IP SP. RW Qual. Time: 3:00 Hrs.

Tolty, John G., (CW2) (M90) C Company, 3-1 AHB, Box 2421, APO New York 09250. Dy: 467-2615. Res: (206) 416-2822. S: Christine. Dy: Apache Pilot, Ansbach. Gr. Rtg: AA. RW Qual. FW Qual. Time: 6:00 Hrs./Cdt 65 AM/2.

Traub, William J., (WOC) (M91) 203 Karen Drive, Oak, AL 36360. Dy: (205) 255-4711. Res: (205) 774-4414. S: Stephanie. Dy: 1/145th Avn. RW Qual. Time: 7:00 Hrs.

Trommes, Steven J., (CW3) (M82) G Company, 227th Aviation Regiment, APO New York 09165. Dy: 322-7794. Res: 06183-74229. S: Teresa. Dy: OH58D IP. Germany. Rtg: AA IP. RW Qual. Time: 2:600 Hrs. Life Member.

Turner, Ronald A., (WOC) (M91) 16 Duke Street, Fort Rucker, AL 36362. Dy: (205) 255-4006. Res: (205) 558-8455. Dy: C1-145th.

Twombly, Thomas N., (CW3) (M82) (TNT) 768 Baitan Court, Ft. Wainwright, AK 99703. Dy: (313) 353-7071. Res: (907) 356-1961. S: Alyson. Dy: A Co, 4-123 Avn Regt. Rtg: SAA. RW Qual. Time: 2:100 Hrs.

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Underhill, Ronald L., (CW3) (M82) (Ron) 111 Emerald Drive, Enterprise, AL 36330. Dy: (205) 255-5223. Res: (205) 347-8274. S: Tony. Dy: C Co, 1223 Avn. Rtg: SAA IP. RW Qual. Time: 2:600 Hrs./Cdt 84 AM/2.

Vaclavik, Michael E., (CW3) (M82) (Gropo) P.O. Box 820255, Fort Rucker, AL 36362. S: Bettina. Dy: IP. Fort Rucker. Rtg: MTP IP. RW Qual. Time: 2:100 Hrs./Cdt 84 AM/2.

Vandrick, William L., (CW3) (M82) 8235 Havers Corners Road, Blacklick, OH 43004. Dy: (502) 766-2658. Res: (615) 582-3568. Dy: 4-101 Avn Bn, Co A, Ft. Campbell. Rtg: SAA IP. RW Qual. Time: 2:600 Hrs./Cdt 150 AM/2.

Vanco, Jeffrey C., (CW3) (M88) 1531 Wiener Park, No. 8, Fort Campbell, KY 42223. Dy: (502) 798-3165. Res: (615) 431-5037. S: Karin E. Dy: A Co, 7th/101st Avn Regt. Fort Campbell. Rtg: MTP. RW Qual. Time: 1:800 Hrs./Cdt 37

Van Eiten, Ben A. Jr., (CW4) (M86) B Company, 8/158th Aviation, APO New York 09165. Dy: 322-7422. Res: 06186-7422. S: Linda. Dy: UH-1 and OH-58 MTFE, Hanau, Germany. Rtg: MAA TP. RW Qual. FW Qual. Time: 12:100 Hrs./Cdt 980 DFCA/AM26.2V.

Van Keuren, Nathan B., (CW4) (M84) (Nate) HHC, 4-22nd AHR, Box 587, APO New York 09140. Dy: 05841-63-514. Res: 06841-4657. S: Karen. Dy: Asst. S-1, 4-22nd AHR, Biesheim, Germany. Rtg: MAA MTP MTFE. RW Qual. Time: 3:500 Hrs./Cdt 700 DFCA/AM27.

Vaughn, Michael H., (W01) (M89) (Nugget) 1602 Missouri Avenue, Killeen, TX 76541. Dy: (817) 287-9915. Res: (817) 690-6596. Dy: AH-64 Pilot, 3rd Bn, 36 Cav, Ft. Hood. RW Qual. Time: 3:50 Hrs.

Vedder, Brenton J., (CW2) (M86) (Darth) C Troop, 5/6 Cavalry, 12th Avn Bde, Box 282, APO New York 09457. Dy: 049-0611-7055893. Res: 049-0611-561636. S: Shari Lyn. Dy: AH-64 Pilot, C Troop, 5/6 Cav, 12th Bde, Wiesbaden AB, Gr. Rtg: AA. RW Qual. Time: 620 Hrs.

Verley, Dale A., (CW2) (M89) (Voltron) 7333 Gardner Hills, Apt. B, Fort Campbell, KY 42223-1013. Dy: (502) 798-7234. Res: (615) 431-5260. S: Sue. Dy: C Co, 7/101 Avn Regt, Ft. Campbell, KY. Rtg:



Aviation Warrant Officer Directory

AA. RW Qual. Time: 500 Hrs./Cdt 30 AM/1.

Verplank, Ritchie M., (CW2) (M89) (Rich) 908 Pinecrest Drive, Rantoul, IL 61866. Res: (217) 893-4675. Dy: Aviator. Rtg: AA. RW Qual. Time: 1:000 Hrs.

Viehl, Mark W., (CW3) (M85) (Baltman) Box 63, 3-4 Air Cavalry, APO New York 09702. Dy: 354-6267. Res: 05366-7451. Dy: E Troop, 3-4 CAV, Conn Barracks, Schweinfurt, Germany. Rtg: IP. RW Qual. Time: 3:600 Hrs.

Vines, David W., (CW2) (M90) (Vinnay) A Troop, 2/6 Cavalry, Box D-13, APO New York 09140. Res: 08841-8406. Dy: (205) 255-6591. S: Tavia. Dy: AH-64 Pilot, A Troop, 2/6 Cav. Rtg: AA. RW Qual. Time: 3:50 Hrs./Cdt 45

Vines, Dumas J., (CW3) (M85) (Jim) 3 Summerbrook Court, Columbus, GA 31909. Dy: (404) 545-2425. Res: (404) 568-0196. S: Deborah. Dy: Avn Stryd, Avn Div, Ft. Benning. Rtg: SAA. RW Qual. Time: 2:700 Hrs.

Voigt, Richard L., (CW4) (M77) HHC 3-3 Avn Regt, Box 70, APO New York 09182. S: Renate. Dy: Stryd, Gabelstadt, Germany. Rtg: MAA. RW Qual. Time: 2:200 Hrs./Cdt 1,200 AM/20.

Voisine, Joel J., (CW4) (M90) 7362 Jiri Woods Court, Springfield, VA 22153-2014. Dy: (703) 325-7836. Res: (703) 451-1359. S: Kim. Dy: Assignment Mgr. PERSCOM. Rtg: MAA IFE SP. RW Qual. Time: 4:000 Hrs.

Voute, Berend J., (CW2) (M86) (B.J.) 107 Banach Court, Ozark, AL 36360. Dy: (205) 255-4006. Res: (205) 774-7565. Dy: C1-145th.

Vreeman, Timothy J., (CW4) (M85) (Tim) A Company, 5/158th Avn Regt, Box 126, APO New York 09025-0254. Dy: 426-4704. Res: 487-918-5351. S: Carol. Dy: A Co, 5th Bn, 158th Avn Regt, Dolan Bldg, Schwarzbach Hall, FRG. Rtg: MAA IP. RW Qual. Time: 6:670 Hrs./Cdt 1,070 AM/26.

WWWWWWWWWW

Wade, Michael R., (W01) (M91) (Gizmo) 5044 Whip Trail, Colorado Springs, CO 80917. Dy: (719) 579-2111. Res: (719) 591-8471. Dy: Cobra Pilot, Fort Carson, CO. RW Qual. Time: 210 Hrs.

Wade, William D., (CW4) (M72) (Will) 4045 Bowsprit Lane, Colorado Springs, CO 80918-5671. Dy: (719) 579-3672. Res: (719) 596-1740. Dy: Dnt. Asst. Safety Officer, HHC, 4th Avn. Bde. Rtg: MAA. RW Qual. Time: 4:000 Hrs. Past VP, Pikes Peak Chapter.

Waensch, Wayne A., (CW4) (M80) (Wayne) P.O. Box 620463, Fort Rucker, AL 36362. Dy: (205) 255-2160. Res: (205) 598-4289. S: Nancy. Dy: TRACOD System Manager-Commander. Rtg: SAA TP. RW Qual. Time: 1:800 Hrs./Cdt 300 AM/12. Past SVP, Redcatcher Chapter.

Wagner, Randy D., (CW4) (M78) HHC, VII Corps, Box 372, APO New York 09107. Dy: 421-2783. S: Sharon. Dy: Stryd, VII Corps, Stuttgart, Germany. Rtg: MAA. Time: 3:100 Hrs./Cdt 900 Past Sec, Mid-America Chapter.

Walker, Lawrence B., (W01) (M89) Hanau Chapter VP Renewals, C Troop, 4/7th Cavalry, APO New York 09076. Dy: Aerocraft Pilot. RW Qual. Time: 400 Hrs./Cdt 130 AM/24. VP, Hanau Chapter.

Wall, Thomas A., (W01) (M90) (Tom) Route 2, Box 250-B, Cameron, NC 28236. Res: (919) 499-6945. S: Stacey. Dy: 1-159 Avn, Fort Bragg. RW Qual. Time: 400 Hrs.

Walshingham, Joseph R., (CW2/PJ) (M83) (Joe) A Co, 3/4th Avn Regt., APO New York 09185. Dy: 334-3779. Res: 011-49-671-66454. S: LaDonna C. Dy: OH-58 A/C Pilot. Rtg: SAA IP. RW Qual. Time: 2:600 Hrs.

Walters, Larry D., (CW4) (M91) 105 Woodwood Avenue, Enterprise, AL 36330. Dy: (205) 255-4846. Res: (205) 347-5630. S: Deborah. Dy: MCMPC Platoon Leader, B Co, 1-14 Avn, Fort AA IP. Time: 7:000 Hrs./Cdt 1,300 DFCA/AM50.

Walters, Mark L., (CW3) (M82) USA Int. Center, Incoming General Delivery, Fort Huachuca, AZ 85613-6000. S: Cheryl. Dy: C-12 Pilot. Rtg: SAA IP. RW Qual. FW Qual. Time: 3:500 Hrs.

Waltz, Gregory A., (MW4) (M86) 1901 Sullivan Drive, Ooltah, AL 36333. Dy: (205) 255-5198. Res: (205) 792-5134. S: Martha. Dy: C12 IFE, USAAT-CA. Rtg: MAA IFE SP. RW Qual. FW Qual. Time: 10:100 Hrs./Cdt 2,300 AM/55.

Ward, Harry R., (MW4) (M89) (Buzz) 11125 Ayrer Road, Colorado Springs, CO 80908. S: Patricia. Dy: Fort Carson, CO. Rtg: MAA IFE SP. Time: 6:000 Hrs./Cdt 863 Past VP, Wings Of The Devil Chapter.

Warden, John S., (CW4) (M86) (Scotty) 7 Burnt Tree Road, Savannah, GA 31419. Dy: (912) 352-5256. Res: (912) 927-6675. S: Luana. Dy: Instrument Flt Examiner, B Co, 3/160th SOAR(A). Hunter AAF. Rtg: MAA SP IFE. RW Qual. Time: 5:570 Hrs./Cdt 662 AM/1.

Wargowsky, Robert L., (CW2) (M88) (Bob) S Troop, 4/11 ACR, Box 96, APO New York 09146. S: Catherine. Dy: UH-60 SP, Ruba, Germany. Rtg: SAA SP. RW Qual. Time: 2:500 Hrs.

Warren, Richard M., (CW3) (M90) HSC 3-227 Aviation, Box 32, APO New York 09165. S: Louise. Dy: UH-60 PIFE, Cnd Avn Sec Ldr, HSC 3-227 Avn. Rtg: IFE SP IP. RW Qual. FW Qual. Time: 4:200 Hrs./Cdt 200 AM/1.

Waslesky, Paul J., (W01) (M89) 1230 Airport Way, Apt. 401, Fairbanks, AK 99701. Dy: (907) 363-7871. Res: (907) 456-2109. Dy: B Troop, 4-9 Cav, Ft. Wainwright, AK. RW Qual. Time: 325 Hrs.

Watson, Jerry S., (CW3) (M90) 4700-2 Jackson Ave., Fort Riley, KS 66442. Dy: (913) 239-6651. Res: (913) 784-3795. S: Adele. Dy: 1P EH-60, D4-1st. Rtg: IP. RW Qual. Time: 3:250 Hrs./Cdt 110 AM/1.

Watson, John N., (CW3) (M89) B Company, 2-1 Aviation, Box 3008, APO New York 09250. S: Lorena. Dy: Apache Pilot Safety Officer. Rtg: AA. RW Qual. Time: 1:300 Hrs./Cdt 25 AM/13V.

Webb, William C., (CW2) (M86) (Bill) N Troop, 4/11 ACR, Box 53, APO New York 09146. S: Judy. Dy: PPIE. Rtg: AA IP. RW Qual. Time: 2:100 Hrs.

Webster, Clayton C., (CW2) (M89) 5587 1 Large Street, Penshaw Park, Fort Hood, TX 76544. S: Maria. Dy: OH-47D Pilot, Fort Hood. RW Qual. Time: 700 Hrs./Cdt 200 AM/1.

Wels, Michael J., (W01) (M89) 6029 Flat Rock Road, No. 142, Columbus, GA 31907. Dy: (404) 545-3418. Res: (404) 568-9702. Dy: DPTM Avn, Fort Benning, GA. RW Qual. Time: 600 Hrs.

Welds, Jon L., (CW4) (M81) 56th Aviation Company, Box 301, APO New York 09028. S: Joelyn. Dy: Road Wing IP, 56th Avn Co, Germany. Rtg: SAA IP. RW Qual. FW Qual. Time: 5:200 Hrs.

Wellenstein, Frank C., (W01) (M90) (Wally) 1124 Broadway Court, Barstow, CA 92311. Dy: (619)

254-2905. Res: (619) 252-5327. S: Mary Jo. Dy: Aviator, C-3159H. RW Qual. FW Qual. Time: 350 Hrs.

Weller, Matthew T., (WO1) (M91) (Cosmo) 400 Roosevelt Boulevard, Half Moon Bay, CA 94019. Dy: 721-5001. Dy: C 1501st Avn. Korea. RW Qual. Time: 350 Hrs.

Wemil, Paul W., (MW4) (M67) 4504 Valleycrest Drive, Arlington, TX 76013. Dy: (817) 280-7222. Res: (817) 451-2173. S: Euphemia. Dy: DPRO, Boli/Acceptance TPIGR, R. Worth. Rtg: MAA IP. RW Qual. FW Qual. Time: 5,500 Hrs./Cbt 1,400 AM/40.

West, Charles E., (CW4) (M68) (Charlie) P.O. Box 468, Fort George Meade, MD 20755-0468. Dy: 936-1007. Res: (817) 542-7224. S: Dottie. Dy: 1st Cav Div, 5th Air Force, Fort Hood. Rtg: SAA SP. RW Qual. Time: 5,735 Hrs./Cbt 1,835 AM/38.

White, Dennis E., (CW4) (M74) RR 1, Box 1458, Troy, IL 62294. Dy: (618) 452-4560. Res: (618) 667-3800. S: Sandra. Dy: AUSA/COM Avn Safety Off. St. Louis. MW Qual. RW Qual. Time: 5,600 Hrs./Cbt 735 DFC2, AM/31.

White, Paul A., (CW2) (M88) N Troop, 4/11 ACR, APO New York 09146. Dy: 0661-86-524. Res: 0661-7967. Dy: Aviator, Fulda, Germany. RW Qual. Time: 630 Hrs. VP, Thunderhorse Chapter.

White, Raymond A., (WO1) (M89) 4316-4 Wolf Drive, Fort Riley, KS 66442. Dy: (913) 239-2800. Res: (913) 784-2024. S: Marilyn. Dy: C Troop, 1-4 Cav, 1st ID(M), Fort Riley. Rtg: AA, RW Qual. Time: 250 Hrs./Cbt 50 AM/1, IV.

White, Rushton D., (CW3) (M75) (Russ) 1113-G Thompson Circle, Fort Eustis, VA 23604. Dy: (804) 878-0309. Res: (804) 887-0628. S: Chong. Dy: Chief, TSB, 1st Staff & Fac, Fort Eustis. Rtg: AA.

Whitehill, William H., (CW4) (M81) (Bill) 1041 Brennan Park, Apt. 8, Fort Campbell, KY 42223-5000. Res: (615) 431-5744. S: June. Dy: C/7-101st, Ft. Campbell, Instrument Flt Examiner. Rtg: MAA IFE IP. RW Qual. Time: 7,800 Hrs./Cbt 1,180 AM/39.

Whitfield, Jeffery S., (WO1) (M89) (Jeff) 7701-1 Rusk Circle, Fort Hood, TX 76544. Dy: (817) 289-9126. Res: (817) 539-1105. S: Cindy. Dy: Evac Pilot, 3-507th Med Co (AA). RW Qual. Time: 480 Hrs./Cbt 34 AM/1.

Whitlock, David P., (CW3) (M82) 3805 E. Grant Street, Orlando, FL 32812. Dy: (407) 623-3559. S: Cheryl. Dy: C Co, Mi Bn (LI), Reed Wing Recon Pilot. Rtg: SAA IP. RW Qual. FW Qual. Time: 2,500 Hrs./Cbt 300 DFC1, AM/10.

Wibeschick, Darrell, (CW4) (M82) (Maytag) HHC, 17th Aviation Bde, APO San Francisco 96301-0043. Dy: 723-3510. Res: 736-8856. S: Judy. Dy: 8th Army MTFE, 8th Army Flight Standards, Yongpoo, Korea. Rtg: MAA IP. RW Qual. Time: 4,150 Hrs.

Wilcher, Dale R., Sr., (CW3) (M83) 1310 Werner Park, Apt. A, Fort Campbell, KY 42223-1120. Dy: (615) 758-4557. Res: (615) 431-9784. S: Ruth. Dy: 6/101st B Co, Rtg: AA IP. RW Qual. Time: 3,000 Hrs./Cbt 300 DFC1, AM/10.

Wilkinson, Byron M., (MW4) (M84) (Mike) 221 Bostone, Fort Ord, CA 93941. Dy: (408) 242-6362. Res: (408) 889-2976. Dy: Chief, Aviation Division. Rtg: MAA SP. RW Qual. FW Qual. Time: 6,784 Hrs./Cbt 1,020 DFC4/AM/3.

Willitt, Larry D., (CW4) (M85) 78th Avn. Bn., Box 83, APO San Francisco 96343-0084. Dy: 233-4284. Res: 233-8219. S: Nancy. Dy: UH-1 SP Camp Zama, Japan. Rtg: MAA SP MTP. RW Qual. Time: 6,520 Hrs./Cbt 850 DFC1, AM/14.

Williams, James M., (CW2) (M91) 1520-B Werner Park, Fort Campbell, KY 42223. Dy: (615) 798-6704.



Aviation Warrant Officer Directory

Res: (615) 431-4962. S: Cheryl. Dy: UH-60 Helicopter Pilot, C5th, 101st Avn. Regt., Rtg: AA. RW Qual. Time: 550 Hrs./Cbt 40 AM/1.

Williams, Robert L., (MW4) (M85) (Bob) Savannah Chap. VP WO Alts, 182 Grenwich Drive, Richmond Hill, GA 31324-1261. Dy: (912) 352-5940. Res: (912) 756-2965. S: Joan. Dy: Bde Safety Officer, HHC 24th Avn Bde, HAAIF, Rtg: MAA IFE SP. RW Qual. FW Qual. Time: 6,100 Hrs./Cbt 1,500 AM/30.

Williams, Ronny G., (CW3) (M83) 1354-A Werner Park, Fort Campbell, KY 42223. Dy: 719-739-3209. Res: (615) 431-6156. S: Janet. Dy: Avn Maint Tech, Ft. Campbell.

Williams, Steven D., (CW2) (M89) 137 Hoedown Circle, Fountain, CO 80817. Dy: (719) 579-4561. Res: (719) 382-5488. S: Karen. Dy: Armament Platoon Ldr, F Co, 4th Avn Bde.

Williamson, Nathaniel W., (CW4) (M91) (Nate) HHT 6-6 Cav., Box 577, APO New York 09140. Dy: 467-4436. Res: 09841-79841. S: Joanne. Dy: Section Leader/IFE, HHT 6-6 Cav., Ilesheim, Germany. Rtg: IFE IP. RW Qual. FW Qual. Time: 4,200 Hrs.

Williamson, John M., (CW4) (M74) (Doc) 129 D. River News Drive, Newport News, VA 23602. Dy: (804) 878-3482. Res: (804) 888-2282. S: Brenda. Dy: MMD Test Plt, Fort Eustis. Rtg: MAA IP MTP. RW Qual. Time: 4,000 Hrs./Cbt 600 AM/12. Life Member. Past VP, Mainz Chapter.

Wilson, Henry A., III (WO1) (M91) 100 Pinecrest Loop, Enterprise, AL 36330. Res: (205) 347-2604. S: Linda.

Wilson, John H., (CW4) (M77) (Jack) A Co, 1501st Avn Regt., Box 591, APO AP 96205. Dy: 723-2475. Res: 011-42-333-6348. S: Sun Hui. Dy: C-12 Pilot/Cof, Seoul Air Base (K-16), ROK. Rtg: SAA. RW Qual. FW Qual. Time: 5,500 Hrs.

Wilson, Michael L., (CW2) (M91) 100 Mohawk Street, Enterprise, AL 36330. Dy: (205) 255-6056. Res: (205) 347-7979. S: Susan. Dy: Instructor Pilot. Rtg: IP. RW Qual. Time: 2,000 Hrs.

Wilson, Paul R., (MW4) (M74) (Paul) Alpha Chapter Secretary, 98-1881-D Kahuamua St., Aiea, HI 96701. Dy: (808) 656-1114. Res: (808) 456-4307. S: Georgette. Dy: Bde ASO, Avn Bde, 25th ID(L), Schofield Barracks. Rtg: MAA IFE SP. RW Qual. FW Qual. Time: 5,500 Hrs./Cbt 1,300 AM/25. Sec, Alpha Chapter. Past VP, Monterey Bay Chapter.

Wineland, Calvin D., (WO1) (M90) (Wangler) 550 Yuca, Apt. 68, Bantow, CA 92311. Dy: (619) 254-2905. Res: (619) 256-3135. Dy: C Co, 3-159 Avn. RW Qual. Time: 225 Hrs.

Wineland, Jeffrey A., (CW3) (M87) (Fat End) B Company, 2-1 Aviation, Box 3329, APO New York 09250-5000. S: Chris. Dy: AH-64 SP, Rtg: AA IFE SP IP. RW Qual. Time: 2,200 Hrs. AM/2.

Wise, James F., (MW4) (M74) (Jim) HHC, 4th Bde (Avn), APO New York 09185-2216. S: Julia. Dy: Bde Standardization Officer (BUH-60 SPIE), 8th ID (Mech). Rtg: MAA IFE SP. Time: 4,700 Hrs./Cbt 365 AM/8. Sec, Mainz Chapter. Past VP, Air Assault Chapter.

Wood, Gregory A., (CW2) (M90) (Greg) 45 East Harris Drive, Fort Rucker, AL 36362. Dy: (205) 255-4605. Res: (205) 598-1691. S: Deborah. Dy:

IP, C Co, 1-212th Avn, Fort Rucker. Rtg: SAA IP. RW Qual. Time: 1,575 Hrs.

Wood, John E., (CW4) (M83) B Company, 214th Aviation Regiment, Barber Point, HI 96862. Dy: (808) 684-7343. Dy: B/214th Avn Regt, Barber Point, HI. Rtg: AA IP. RW Qual. FW Qual. Time: 3,200 Hrs./Cbt 600 AM/1.

Woodard, Glen R., (WO1) (M90) 4104 Westcott, Killeen, TX 76543. Dy: (817) 287-0426. Res: (817) 690-1751. S: Sandra. Dy: Hqtr Pilot, Ft. Hood. RW Qual. Time: 250 Hrs.

Woodbury, Alden D., (CW3) (M82) (Woody, Dusty) 25 La Piroe Street, Fort Bragg, NC 28307-1830. Dy: (919) 396-3207. Res: (919) 436-3823. S: Barbara. Dy: CAC 1-159th Avn Regt. Rtg: SAA. RW Qual. FW Qual. Time: 3,000 Hrs. Life Member.

Worstall, Barry A., (CW5) (M89) (Baz) A Company, 3-1 Avn. Regt., Box 3337, APO New York 09250. S: Maria. Rtg: SAA SP. RW Qual. Time: 3,100 Hrs./Cbt 10 AM/2.

Wright, Mark A., (CW3) (M88) PSC Box 3146, APO Miami 34002. Dy: 286-4462. Dy: NBC Officer, 214th Med Detachment, MEDVAC Pilot, Albrook AFS, Panama. Rtg: SAA. RW Qual. Time: 3,000 Hrs.

Wroe, Jeffrey W., (WO1) (M89) 2018 Devon Street, Colorado Springs, CO 80909-1618. Dy: (913) 239-6631. Res: (913) 235-1069. Dy: UH-1H Pilot, General Support, A Co, 4-1 Avn, Fort Riley. RW Qual. Time: 500 Hrs./Cbt 177 AM/1.

YYYY-ZZZZ

Yager, John R., (WO1) (M91) 104 Michelle Court, Daleville, AL 36322. Dy: (205) 255-6737. S: Christine. Dy: B/1-145th. Time: 100 Hrs.

Yates, Robert E., (CW4) (M82) (Rowdy) HSC 3-1 AAH, Box 1823, APO New York 09250. Dy: 467-2550. Res: 011-49-9872-2647. Dy: UH-60 Pilot, Katterbach, Germany. Rtg: MTP. RW Qual. RW Qual. Time: 8,801 Hrs./Cbt 800 AM/10.

Young, Patrick J., (CW3) (M90) (P.J.) 377th Medical Co. (AA), Box 287, Unit 15248, APO San Francisco 96305-0021. S: Hyon Suk. Dy: Standardization IP. Rtg: SP IFE. RW Qual. Time: 2,300 Hrs.

Young, Randolph G., (CW4) (M87) (Randy) 12207 Captains Court, Woodbridge, VA 22192. Dy: (703) 664-4073. Res: (703) 494-3027. S: Sue. Dy: RW PAT, USADAC, Fort Belvoir. Rtg: MAA SP. RW Qual. Time: 5,233 Hrs./Cbt 481 AM.

Zamowski, Timothy, (CW2/PJ) (M85) (Zeke) 1955 Memorial Drive, Apt. H-65, Clarksville, TN 37043. Dy: (602) 798-2781. Res: (615) 648-1238. S: Kim. Dy: AH-64 IP, B Co, 1-101 Avn Regt, Ft. Campbell. Rtg: SAA IP. RW Qual. Time: 1,850 Hrs./Cbt 46 DFC1, AM/5, IV.

Zimmerman, John M., (CW3) (M86) (Zimmo) 68 Sanders Drive, Newport News, VA 23602. Dy: (804) 878-3266. Res: (804) 877-9704. S: Joyce. Dy: DDCS Eval, Ft. Eustis. Rtg: SAA IP SP MTP. RW Qual. Time: 2,200 Hrs./Cbt 30 AM/2.

Zipolo, Gale E., (CW3) (M87) (Butch) 213 Carswell, Fort Ord, CA 93941. Dy: (408) 242-7302. Res: (408) 384-0588. S: Sissy. Dy: E Co, 123rd Avn Regt, Fort Ord, CA. Rtg: MTP. RW Qual. Time: 1,600 Hrs.

Zumbach, David G., (WO1) (M91) 18 Urell Drive, Fort Rucker, AL 36362-5000. Dy: (805) 255-4401. Res: (805) 598-6110. S: Anita. Dy: B/1-145th. RW Qual. Time: 75 Hrs.

BRIEFINGS

BG Robert A. Goodbary has been named the new Assistant Commandant of the U.S. Army Aviation Center and Fort Rucker, AL. Formerly Assistant Division Commander (Support), 3d Infantry Division (Mechanized), USAREUR and Seventh Army, Goodbary replaces **BG Thomas J. Konitzer**. Konitzer assumes the duties of Assistant Division Commander, 101st Airborne Division (Air Assault), Fort Campbell, KY.

American Helicopter Society Executive Director **John F. Zugschwert** has announced his resignation from that post effective October 1991. He will be replaced by **Morris E. (Rhett) Flater**, former President of Boston's Hub Express, a commuter helicopter airline.

On 9 August 1991, **Litton Applied Technology** acquired **General Instrument**, which included the **Dalmo Victor** Division. Litton has assumed all procurement and purchasing activities, and all outstanding purchase orders and subcontracts will remain in effect.

BF Goodrich has acquired the Stormscope division from 3M, which will be merged with Foster AirData Systems, of Columbus, OH. Stormscope has been manufacturing weather avoidance systems since 1976, when the original Stormscope system was introduced to general aviation.

LCDR Colleen Nevius, USNR, has been named Executive Director of the Whirly Girls, Inc. She succeeds Sheryl Jones, who held the post for the past three years. Lcdr Nevius has piloted CH-46/CH-53E helicopters, and currently flies a C-12 for the Naval Reserve.

In other **Whirly Girls** news, the Whirly-Girls Scholarship Fund has announced the 1992 Major Marie T. Rossi Memorial Flight Scholarship to inspire pilot professionalism and excellence in aviation as exemplified by MAJ Rossi, the first U.S. woman pilot killed during Operation DESERT STORM. This \$5,000 1992 Scholarship will be awarded to a deserving woman helicopter

pilot for flight training to upgrade her professional status. Those wanting to contribute may send their checks, made out to the Whirly-Girls Scholarship Fund and identified as a (tax deductible) contribution to the 1992 Major Marie T. Rossi Memorial Flight Scholarship, to: Betsy John #215, Treasurer, the Whirly-Girls Scholarship Fund, P.O. Box R, Scappoose, OR 97056. The 1992 Major Marie T. Rossi Memorial Flight Scholarship will be presented at the 24th Annual Scholarship Awards Banquet, March 22, 1992, in Las Vegas, NV. Scholarship applications may be obtained by writing to: Diane Dowd #202, President, Whirly-Girls Scholarship Fund, 100 Green Pond Rd., Sherman, CT 06784.

ITT Electro-Optical Products Division of Roanoke, VA, has successfully completed its portion of the OMNIBUS I U.S. Army contract for night vision devices awarded in 1985. ITT's successful completion of the OMNIBUS I contract represents achievement of record deliveries both for Generation II and Generation III night vision devices. Combined Generation II/III deliveries totalled 97,294 image intensifier tubes and 36,164 night vision systems.

Flight testing of a new **Longbow Apache** radar housing could result in a more streamlined look for the next-generation combat helicopter, according to **McDonnell Douglas Helicopter Company (MDHC)** of Mesa, AZ. Flight tests, which continue through April, are expected to determine the effects the smaller, aerodynamic radar sight has on flight performance. The Longbow Apache features a newly-developed millimeter wave radar fire control system and advanced missiles, giving the helicopter the capability to destroy targets accurately and more quickly from a long distance in a wide range of adverse environmental conditions.

Another noteworthy MDHC development is the FAA certification of the company's **MD 520N** helicopter. A derivative of the MD-500 series, the 520N is the first conventional single rotor helicopter to operate without a tail rotor for anti-torque and directional control, using instead the company's exclusive NOTAR™ system.

BRIEFINGS



Sikorsky Aircraft has delivered its prototype MH-60K Special Operations helicopter to the U.S. Army Special Operations Command in August 1991. The MH-60K is equipped with Terrain Avoidance/Terrain Following (TA/TF) radar, Forward Looking Infrared (FLIR), and integrated flight control, navigation, and communication systems. The helicopter can detect and avoid threats with its advanced array of aircraft survivability equipment, and is capable of air-to-air refueling. Sikorsky has a contract to deliver 22 MH-60Ks to the U.S. Army.

McDonnell Douglas Helicopter Co. of Mesa, AZ, has teamed with **Rockwell's Collins Avionics & Communications Division** of Cedar Rapids, IA, to develop a non-line-of-sight communications system that keeps open the radio link among helicopters and ground stations despite the presence of rolling terrain, trees, mountains, and other obstructions. Rockwell developed the radio, while McDonnell Douglas developed the antenna and handled the system integration. The Army sponsored a flight test on an AH-64 Apache attack helicopter. Flight testing was completed in March 1991, and the tests established reliable communications at 300 kilometers between an Apache flying 10 feet off the ground and a fixed-base ground station. This meets the Army's emerging requirement of 300 kilometers for non-line-of-sight communications, prompted by deep strike communication deficiencies experienced during DESERT STORM.

AEL Industries, Inc. announced that its AEL Defense Corp. has been awarded a \$1.3 million production contract by AVSCOM for the production of AN/AVR-2 Laser Detecting Set (LDS) Kits.

Lucas Aerospace has won a major contract from McDonnell Douglas Helicopter Co. for follow-on production of flexible shafts and couplings for the AH-64 Apache attack helicopter. The award covers 108 sets of hardware, with deliveries scheduled to continue until December 1993.

The **U.S. Army Applied Aviation Technology Directorate (AATD)** has awarded an \$825,000 contract to **McDonnell Douglas Helicopter Company (MDHC)** to develop combat damage criteria and damage inspection and repair tools/techniques for optical component repair. This program will develop inspection and repair criteria for optical components which are damaged in a wartime situation.

In other AATD news, a 33-month, \$659,019 contract has been awarded to **Kaman Aerospace Corporation** for an Advanced Rotor Blade Erosion System. The program will evaluate materials and develop an advanced erosion protection system for operational Army helicopter main and tail rotor blades, as well as conduct environmental and full-scale flight testing of the system.

GE Aircraft Engines and **Southern Aero Corporation** have agreed to develop a T700-powered UH-1 Huey demonstrator and to fly the high-performance aircraft early next year. The helicopter will be designated the UH-1HP (High Performance). The modification would greatly increase the UH-1's performance envelope and enhance its high/hot lift capabilities. A re-engined Huey would meet the strong demand from foreign military services for enhanced performance from their UH-1 fleets.

The **Helicopter Club of America** will sponsor the 1992 National Helicopter Championships on 21-24 March in Las Vegas, NV. The competition will include representation from U.S. military services, commercial operators, and private citizens. See page 47 for more details.

MARKETPLACE DIRECTORY

The **MARKETPLACE DIRECTORY** is a reference guide that offers **ARMY AVIATION** readers easy access to the products and services they need most. Listings are sold on a semi-annual or annual basis at the rates outlined below.

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CH-47D MAINTENANCE TRAINING — Boeing Helicopters is now offering a Total Maintenance Training Program at our factory Training Center in Philadelphia, PA. Courses provide our CH-47 customers with a low-cost, responsive alternative for CH-47 sustainment update training. For a free catalog and price listing, contact R. Neil, Boeing Helicopters, PO Box 16858, MS P38-43, Philadelphia, PA 19142, (215) 591-8744.

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CAREER TRACK

If you'd like to take advantage of the Career Track employment referral service, but you're not yet a member of AAAA, the solution is simple: Fill out a membership form and send it in along with your request for a Career Track application. Your ad will run in the next available issue.

Active AAAA members may have a 30-word classified employment ad published in two consecutive issues of **ARMY AVIATION MAGAZINE** free of charge. Write to the AAAA National Office, 49 Richmondville Avenue, Westport, CT 06880-2000, or call (203) 226-8184 for Career Track applications. Inquiring organizations contact the National Office.

Recently retired colonel, Garrison commander, Ft. Rucker; seeking management position with industry; experience includes director at USAAVNC, battalion command, airfield commander, counterdrug operations; BS (USMA), MA (Mgt), AWC graduate. 91-08-01

Seeking aviation/airport management position; master Army aviator; experience as commander of Campbell Army Airfield, battalion cdr, director, and garrison commander commander of TRADOC Installation; BS (USMA), MA (Mgt), AWC grad; available now. 91-08-03

Captain, BS Governmental Administration. 8 years Regular Army. Dual Rated Senior Army Aviator with over 2100 flight hours. Experience as flightoperations officer, airfield operations officer, AVIM executive officer, aviation safety qualified. Seeking Aviation Pilot/Operations/Management position. Available September 1991. 91-08-04

Army Marketing Manager available. 10 years experience managing marketing throughout the entire Army organization from user to procurer and Congress. Well known and most highly regarded throughout the industry. 91-08-05

Seeking position as chief pilot/director of corporate flight dept; F/W qualified; commanded two corporate flt depts and two aviation battalions, airfield commander, Director of Eval & Stdzn; ATP: BS (Engr), MA (Mgt), AWC graduate. 91-08-02

Quality Assurance/Manufacturing Manager. 17 years industry experience in Quality Assurance. 11 years in radar and ECM engineering analysis. BA Chemistry/Math, MS Electrical Engineering. Thorough knowledge of MIL-I-45208 and MIL-Q-9858. Available now. 91-08-06

AAAA offers \$100,000 in 1992

Two scholarships now open to upperclassmen

■ ■ BACKGROUND:

The AAAA Scholarship Foundation, a separate non-profit, tax-exempt corporation created to render financial assistance to selected members of the Army Aviation Association of America, Inc. (AAAA) and selected spouses, unmarried siblings, and unmarried children of current and deceased AAAA members, expects to make available \$100,000 in assistance funds for the 1992 college-entry year.

■ ■ SCHOLARSHIP GRANTS AND LOANS:

A minimum of thirty scholarships will be presented to entering freshmen — ranging from \$1,000 to \$12,000 grants given out as one, two or four year scholarships; five interest-free loans of up to \$4,000 (\$1,000 a year); a \$2,000 scholarship (\$1,000 a year) to an eligible applicant pursuing a two-year associate degree in an aeronautical field who wishes to upgrade a vocational skill; a \$4,000 scholarship (\$1,000 a year) to an eligible applicant pursuing a four-year B.S. degree in an aeronautical-related science; and a scholarship of up to \$3,000 (\$1,000 a year) available to students planning to attend St. Louis University.

An additional two scholarships will be presented to upperclassmen (\$1,000 a year).

■ ■ AWARD PHILOSOPHY:

The AAAA National Scholarships are awarded primarily on the basis of academic merit and personal achievement.

■ ■ APPLICATION PROCEDURE:

To apply, please request a Scholarship Grant/Loan Application and return it to the AAAA Scholarship Foundation, 49 Richmondville Avenue, Westport, CT 06880-2000 on or before May 1 (postmark will govern). On our receipt of the completed application, you will be mailed further instructions and assigned an AAAA interviewer. All forms, together with other supporting data, must be received by the Foundation on or before June 15 for consideration by the AAAA Awards Committee.

■ ■ ELIGIBILITY CRITERIA:

An applicant must be a citizen of the United States who will be attending an accredited college or university full-time in the Fall of 1992. The AAAA member to which the applicant is related must have an effective date of membership on or before October 15 of the year preceding the year in which the applicant is seeking aid unless the member is deceased.

■ ■ SELECTION AND NOTIFICATION:

Selection of winners will be made by the AAAA National Awards Committee during mid-July with each applicant to receive a list of the winners not later than August 1.



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Stephens, Madrie R., PV2
Stratton, James L., SGT
Suvarde, Howard N., Mr.
Suarez, Oliver C., SPC
Sullivan, Mark, SPC
Sullivan, Timothy S., CPT
Sullivan, Timothy, PFC
Sung, Cherie, Ms.
Sussag, Jeffery T., CW2
Taylor, Brian M., PFC
Taylor, Kenneth R., CPT
Taylor, Richard P., MAJ
Thompson, Celestia, SPC
Thompson, Scott A., WOC
Thompson, Dan B., SPC
Tinnestad, Scott B., 2LT
Toppel, Daniel L., WOC
Teet, Ben, Jr. CW4
Trobiano, Robert L., SGT
Tupper, Frank C., WOC
Vanguard, David D., PVT
Veraut, Edmund C., 2LT
Viana, Alfred, CPT
Vitullo, Roland E., CPT
Vlach, Gregory, SPC
Voelke, Walter E., SSG
Walker, Robert D., CW2
Wallace, Dennis D., CW4
Walsh, Steven D., WO1
Wana, Robert P., LTC
Warren, Donald E., Mr.
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Weiss, Raymond A., SGT
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West, Richard J., SGT
Whalley, Vincent R., CPT
White, Robert D., 1LT
Whitehurst, Leon C., CW4
Wiesen, Robert, SPC
Wiley, Carl D., CPT
Wilhelm, Jay S., CW4
Williams, Michael B., MAJ
Wills, Kevin D., 1LT
Wilmoth, Frank S., LTC
Wolkyns, Anthony L., MAJ
Woyus, Maryanne, Ms.
Wright, Gary L., CSM
Wright, Karen J., 1LT
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Zepeda, Pablo, Mr.



The lift the Army needs.

The Army must soon choose between the old and the new for its light utility helicopter. By choosing a non-developmental item (NDI), the Army can obtain an operationally superior, cost-efficient fleet that will serve its forces well into the future.

The new Panther 800 is the light-lift helicopter that represents an effective, low-risk NDI solution. It will consume

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CW2 Richard R. Thefford
CW2 Barry V. Thomason
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MAJ Bob Hurstley, Ret.
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Dr. Richard D. Nelson
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COL Johnnie L. Shepherd
COL Milton M. Stamper

Top Chapters

The 30 September 1991 Membership Enrollment Competition standings have the following chapters ahead with three months left in the CY91 contest ending December 31. The rankings are based on CY91 net membership gain.

Master Chapters (231 or more members)

Rank	Net gain
1	Army Aviation Center Chapter..1029
2	Central Florida.....10
3	North Texas.....8
4	Connecticut.....6

Senior Chapters (116-230 members)

Rank	Net gain
1	Hanau.....25
2	Leavenworth.....16
3	Chesapeake Bay.....9
4	Talon.....8
5	Chicago.....7
6	Fort Bragg.....6
7	Old Ironsides.....3

AAAA Chapters (25-115 members)

Rank	Net gain
1	Black Knights.....36
2	Redcatcher.....24
3	Wings of the Devil.....23
4	Pikes Peak.....21
5	Mukilteo.....13
6	Thunderhorse.....8
7	Indiantown Gap.....7
8	Rhine VValley.....6
9	Checkpoint Charlie.....5
10	San Jacinto.....5
11	Jack H. Dibrell/Alamo.....4
12	Tarheel.....4
13	Armadillo.....1

Solicitation now underway for CY 91 AAAA National Awards: NOMINATIONS DUE AT THE AAAA NATIONAL OFFICE ON OR BEFORE JAN. 15, 1992.

"Award Presentations"

Up to eight AAAA National Awards for accomplishments made during Calendar Year 1991 will be presented at the 1992 AAAA Annual Convention in Atlanta, GA. The individual AAAA National Award presentations will be made on Friday; the unit AAAA National Award presentations will be made on Saturday. Senior members of the U.S. Army will be invited to present the AAAA's top awards on both occasions.



"Outstanding Aviation Unit 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.

"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.

"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 Grumman Corporation, 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 for sustained contributions to Army Aviation, or to a unit or an individual for a unique, one-time outstanding performance.

"Army Aviator of the Year Award"

Sponsored by the Sikorsky Division of United Technologies Corporation, 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 by General Electric Aircraft Engines in memory of James H. McClellan, a former Army Aviator who was killed in a civil aviation accident in 1958, this award is presented annually to an individual who has made an outstanding individual contribution to Army Aviation safety in the previous calendar year." 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 Boeing Helicopters, 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 CY." 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, 49 Richmondville Avenue, Westport, CT 06880-2000.

The form should be accompanied by a recent photo and biographical sketch of the nominee. Photos of the commander and the senior NCO must accompany each unit nomination. The "Nomination Form for Submission of All AAAA National Awards" and the accompanying photo(s) must be received at the AAAA National Office on or before January 15. Please use stiffeners to protect the photo(s) being submitted. The receipt of each nomination and seconding nomination will be acknowledged by the AAAA. However, awards nominations materials - to include photographs - cannot be returned.

Top Guns as of 2 October 1991

The member who sponsors the greatest number of new members during the contest year ending 31 December 1991 wins an all expense-paid trip to the AAAA Annual Convention as well as a \$300 cash award, and receives a plaque at the AAAA Membership Luncheon.

CW3 Roger K. Garner.....	345
2LT Thomas S. Turman.....	232
CW4 Butch Daniel.....	88
CPT William J. Davisson.....	56
CW2 Berend J. Voute.....	49
CPT Martin T. Carpenter.....	45
CW2 Gregory A. Wood.....	45
Ms. Janet J. Garmon.....	38
CW3 Kenneth W. Haynie.....	29
Ms. Susan Werkmeister.....	28
CW4 J.D. Badgley.....	22
CPT Thomas R. Brew, Jr.....	21
Ms. Susan E. Barnes.....	20
CPT Perry D. Collette.....	20
CW4 John C. Dixon, III.....	20
CPT Glenn A. Rizzi.....	20
MAJ David D. Krieger.....	19
CPT Richard E. Arnold.....	18
LTC Richard Gillingham, Ret.....	17
CPT Ralph Perez.....	17
CPT Dempsey D. Solomon.....	16
Ms. Nancy A. Alexander.....	13
Mr. Joseph A. Caines.....	13
CW3 Ramiro Guerrero, Jr.....	13
MSG John H. Bae.....	12
Mr. Billy F. Quintanilla.....	12
CW4 Reid D. Feltmate.....	11
Mr. Frederick Khemchand.....	11
LTC Michael McClellan, Ret.....	11
WOC Glenn A. Moya.....	11
CPT Richard L. Bedwell, Jr.....	10
CPT Ricky L. Burrell.....	10
CW4 James E. Stone.....	10
CPT Kevin M. Woods.....	10
Ms. Deborah L. Horne.....	9
COL Frank P. Intini, Jr.....	9
LTC Thomas F. Stewart.....	9
CPT Albert C. St. Jean.....	9



AAAA's newest chapter—the Isthmian Chapter—held its activation meeting 30 August 1991 at the Ft. Amador Officers Club, Republic of Panama. Guest speaker was BG Joseph W. Kinzer, Deputy CG, U.S. Army South. Pictured above, left to right, are: LTC Robert J. Wrinkle, Treas; MAJ Clark A. Grablin, Secy; MAJ Buddy Moore, Senior VP; COL Richard H. White, President; BG Kinzer; and MW4 Earl Irwin, VP, Programs. Rounding out the board but not pictured is MAJ William G. Waters, VP Memb. Renewals.

Below, MAJ Joseph A. Durso, Aviation Brigade S-3 for the 2nd Aviation Brigade, Dhahran, Saudi Arabia, is seen last July with The Bear himself, GEN H. Norman Schwarzkopf, as the brigade flew the General on his farewell tour of Saudi. Joe, who's been in SWA since last January, hopes to be back in the States in November.





AAAA Gifts for the Holidays!



As a service to active AAAA members, the AAAA National Office maintains an inventory of souvenir and gift items. To place your order, please complete and return this request to the AAAA National Office at 49 Richmondville Avenue, Westport, CT 06880-2000. Please print clearly or type all information. All orders must be prepaid. Please do not send cash. Please allow six to eight weeks for delivery. If you have any questions or require additional information, please feel free to call the AAAA National Office at (203) 226-8184.

1 Please complete the information below:

Name _____

Mailing Address _____

City _____ State _____ Zip _____

Office Telephone (____) _____ Home Telephone (____) _____

2 Is this for Chapter use? ☐ Yes ☐ No If yes, Chapter Name _____

3 Items Requested:	Quantity	Unit Price	Unit Price	Unit Price	Total
		1-10	11-20	21 or more	
Coffee Mug	_____	\$5.00	\$4.25	\$3.85	\$_____
Coin	_____	\$1.80	\$1.25	\$1.15	\$_____
Decal 4 inch	_____	\$.30	\$.25	\$.20	\$_____
Decal 12 inch	_____	\$4.75	\$4.00	\$3.75	\$_____
Flashlight	_____	\$4.00	\$3.50	\$3.00	\$_____
Key Chain	_____	\$2.75	\$2.25	\$2.15	\$_____
Medallion 3 inch	_____	\$7.25	\$6.00	\$5.50	\$_____
Patch with 4-color AAAA logo	_____	\$2.75	\$2.25	\$2.15	\$_____
Plaque 6 inch x 8 inch Walnut with Medallion	_____	\$10.00	\$8.25	\$7.75	\$_____
T-Shirt — Circle: S, M, L, XL _____	_____	\$6.85	\$5.75	\$5.25	\$_____

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\$20.00—39.99	\$4.75	\$12.00	\$100.00 or More	\$12.00	\$24.00

New AAAA Chapter Officers

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Ms. Nancy L. Cottle (VP, Membership Enrollment)

Army Aviation Center:

COL Robert B. Bailey (VP, 1st Avn Bde); COL Thomas M. Roy (VP, Avn Trg Bde); COL Richard N. Roy (VP, Ctr School); CPT Elizabeth F. Murray (VP, Chap. Awards)

Central Florida:

LTC Thomas J. Atkinson, Ret. (Treasurer)

Citadel:

CDT Alexander H. Burgess (President)

Ft. Bragg:

COL William R. Clontz (Pres); CPT Phillip A. Merritt (Secy); 1LT Lawrence M. Iwanski (Treas); LTC Ernest G. Botts (VP, Industry Affairs)

Greater Atlanta:

LTC James L. Uttley (Secy)

Leavenworth:

MAJ(P) Larry R. Dunavant (Pres); MAJ John F. Finan, Jr. (Secy); MAJ Steve Hammack (VP, Memb. Enroll.); MAJ Wayne Randolph (VP, Memb. Renew.); MAJ Greg T. Goodall (VP, Programming)

Morning Calm:

COL Larry Turnage (Pres); LTC Pierre D. Peltier (VP, North); LTC Tom Rini (VP, South); CSM Harold W. Eagle (VP, Publicity)

Redcatcher

CW3 Warren A. Aylworth (Secy); CW2 Joseph B. Whipple (Treas); CW3 Kenneth W. Haynie (VP, Memb. Enroll); CW2 James E. Chandler (VP, Memb. Renew); CW3 William S. Nagle (VP, Prog); CSM Richard F. Thomas (Awards VP)



On 20 May 1991, the Old Ironsides Chapter held a general membership meeting. Mr. Thomas Gunn, President of McDonnell Douglas Helicopter Company, was on hand to present a limited edition DESERT STORM print to 2-1 and 3-1 Aviation Regiments to commemorate their participation in the liberation of Kuwait. Mr. Gunn (above, center) presented the prints to the battalion commanders, LTC John Ward (left) and LTC William Hatch (right). He also provided combat pins for each member of the battalions.

On 9 May 1991, the Connecticut Chapter welcomed MG Merle Freitag, Director of the Army Budget, as guest speaker. Below, AAAA Executive Director Terry Coakley is seen at the event presenting MG Freitag with an AAAA "sport bag" memento from the AAAA Annual Convention.





Pictured above are trophy winners in the Lindbergh Chapter-sponsored "Crazy Bowl" held at the Charles Melvin Price Bowling Alley, Granite City, IL, 13 July 1991. FYI—trophies were given to both the highest and lowest scorers, who were not identified as such to protect the innocent. Front row, left to right are: Ann Indelicate, Susan Barnes, Barbara Sekach, Marlies Brantley, Mike Drennon. Back row, left to right: Jerry Hipp, Steve Sekach, Duie Brantley.

The Chesapeake Bay Chapter's Annual Lobster Bake Family Day, held on 8 June 1991, was yet another success. Chapter members would like to thank Sikorsky Aircraft (UTC) for their participation and assistance. Below, MAJ Craig A. Bond, Chesapeake Bay Vice President Programs, keeps an eye on Justin Betz as he pulls some Gs rounding Turn #1 in the Hot Wheels Race.



Savannah:

CPT Kevin M. Woods (VP, Memb); CPT Gerald M. Pearman (VP, Programming)

Stuttgart:

MAJ Thomas W. Wiecks (SrVP); CPT John F. Laganelli (VP, Memb); MAJ Patrick M.K. Ching (VP, Program)

Taunus:

1LT Michael L. Shenk (Treasurer)

Tennessee Valley:

COL Frederick R. Bisch, Ret. (SrVP); MAJ Albert Carreon, Jr. (Treas); Mr. John W. Finafrock (VP, Prog); Ms. Debra T. Reid (VP, Publicity); LTC Garnett E. Crask, Ret. & LTC Donald F. Luce, Ret. (VPs-At-Large)

Washington D.C.:

COL John E. Alley (Pres); LTC Eber E. Brown (SrVP); CPT Kim M. Barrier (Secy); MAJ J. Michael Borland (VP, Membership Renewals)

Wings of the Devil:

COL Everette L. Roper, Jr. (Pres); WO1 Christopher D. Elcher (Treas); CPT Paul M. Steele (VP, Special Projects)

Wings of the Marne:

COL Erwin E. (Butch) Whitehead (Pres); CPT(P) Victor P. Chargualaf (Treas); CPT Michael E. Garrison (VP, Programming)

New Sustaining Members

Army Aviation Center
Federal Credit Union
Daleville, AL
Ben Farmer Realty
Savannah, GA

New Industry Members

Du Pont Company
Wilmington, DE

**Soldier of
The Month**

A Chapter Program to
Recognize Outstanding
Aviation Soldiers on a
monthly basis.

SPC Steven S. Isles

Wings of the Devil Chapter
January 1991

PFC Donald E. Brandt

Wings of the Devil Chapter
March 1991

SPC Jeffrey E. Pieper

Wings of the Devil Chapter
June 1991

SPC Gerardo Santillan

Aviation Center Chapter
August 1991

SPC David M. McGonegal

Aviation Center Chapter
September 1991

SPC William R. Kamats

Aviation Center Chapter
October 1991

**Soldier of
the Quarter****SPC Franklin W. Sickel**

Rhine Valley Chapter
(2nd Qtr CY 1991)

SPC Phillip H. Nicholas

Rhine Valley Chapter
(3rd Qtr CY 1991)

**GIVE THE
HOLIDAY GIFT
THAT KEEPS
ON GIVING
AAAA
MEMBERSHIP**

See page 80 for application
AAAA Holiday gift ideas
on page 89

**In Memorium:
CW3 Robert J. Hughes**

"In memory of CW3 Robert J. Hughes. . ." to that thought, one that knew him might find answers to inevitable questions in a flood of recollections—all good.

He was a man who spent his childhood growing up in a small town in Connecticut, in the midst of a large, loving family. There his roots lie, yet when he chose his life's direction, he chose the United States Army.

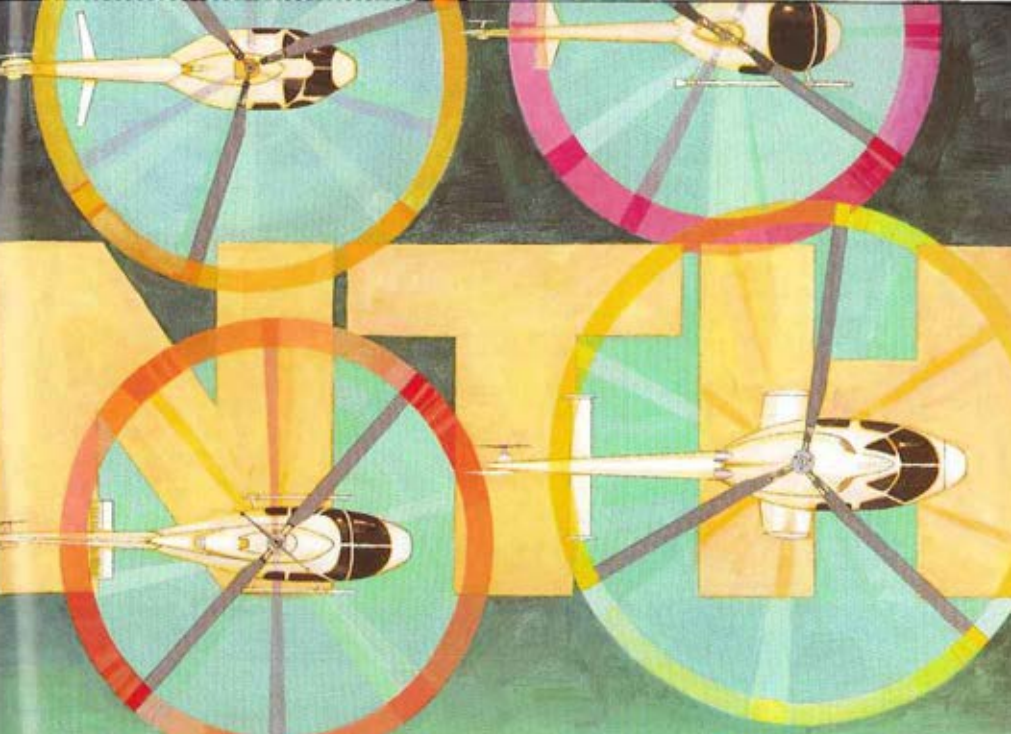
He served the Army with distinction until his life ended in a helicopter crash in the desert of Saudi Arabia on 1 March 1991. Our collective victory in DESERT STORM cost not only his wife, family, and friends a great price but the whole country as well.

Most citizens will never know the bountiful return on investment this nation reaped from having had CW3 Bob Hughes in its service. He was beyond a shadow of a doubt a shining star. He was *the* guy that commanders always love to find in their units. The one the commanders relied upon and whom they often sought out for advice. He was known to his peers as a consummate aviator and warrant officer. Without exception, he was admired, respected, and appreciated as such.

To his wife Katrina and his mother, he was love. To his father, he was pride. To his brother, he was success. To his sister Danette, he was someone to be admired for being all the things he was and did, while still providing the warm, strong, comforting shoulder a little sister rests her troubled head against when she just wants to talk. Webster could not define a more complete man.

To them, to us, he will always be missed, even while he is remembered as a radiant example of what a man should be. Good-bye, Bob, good-bye. . .

(Editor's Note: these thoughts were received from CW3 Robert M. Miller. CW3 Robert J. Hughes was a AAAA member since 1986. At the time of his death during Operation DESERT STORM, he was serving as a CH-47D Standardization Instructor Pilot with B Company, 2/159th Aviation Regiment, home based at Hunter Army Airfield, GA. Donations in Bob's name may be made to: Inner City Night Shelter, 124 Arnold Street, Savannah, GA, 31404)



OUR OFF-THE-SHELF AVIONICS ARE EARNING RESPECT IN SOME NEW CIRCLES.

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And recently, an even tougher audience—the U.S. armed forces—has determined that our avionics are ideally-suited to a wide range of military missions, as well.

For example, our off-the-shelf commercial systems have been winning praise in such demanding environments as the U.S. Navy's TH-57 helicopter, the U.S. Army's U-8 and U-21 retrofit programs, the Army C-12 and the new Air Force One—not to mention such international applications as the 8G, fully-aerobatic Pilatus PC-9 multi-national trainer and the Royal Thai Air Force's Pantrainer,

Our years of experience with military contracts coupled with our proven technology ensure on-time avionics delivery. Our rugged, pilot-friendly systems are justly renowned for being both durable and easy to fly, making them ideal for the NTH (New Training Helicopter) training

environment—as they are for the many civilian flight schools and universities which also use them.

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LTC Donald Eber Chamberlain, Ret.

LTC Donald Eber Chamberlain, U.S. Army, Ret., died 8 March 1991 at the F. Lee Mofitt Center in Tampa, FL at the age of 70. He had been struggling against a rare form of cancer over the previous seven years. He was an AAAA Charter Member.

Chamberlain was born on 1 March 1921 in North Star, MI. Raised on a dairy farm near Ovid, MI, he learned the basic values of honesty, fairness, and service to others which would distinguish him throughout his life. Following his graduation from Michigan State University in 1943, he was commissioned in the U.S. Army, becoming a liaison pilot in the Field Artillery. He served with GEN Patton's Third Army, and later took part in the occupation of Germany.

In 1955-1956, he served at Pan Mun Jom, Korea. Beyond his duties as a medevac helicopter pilot, LTC Chamberlain served as a volunteer orderly in MASH units. In 1968, he commanded the Dong Tam airfield in Vietnam's Mekong Delta. He was a Master Army Aviator and was awarded the Bronze Star, the Air Medal (w/20 Oak Leaf Clusters) and the Army Commendation Medal (w/one Oak Leaf Cluster).

He is survived by his wife Carol, sons Phillip and Eric, daughters Nancy and Martha, and four grandchildren.

CW2 Kerry P. Hein

AAAA member Chief Warrant Officer 2 (CW2) Kerry P. Hein, 28, of Sound Beach, NY, died 27 February 1991 when the medevac UH-1H Huey he was piloting was shot down by enemy fire over Kuwait.

Hein was born 7 January 1963 at St. Albans Naval Hospital in Queens, NY, and grew up in Sound Beach, NY. He graduated from Rocky Point High School in 1981, and later attended Embry-Riddle Aeronautical University in Daytona, FL, pursuing a dream of flying he had had since age 10.

Hein entered the U.S. Army Reserve in June 1987 and completed Army flight training at Ft. Rucker, AL, on 12 April 1989. He applied for Active status and was assigned to 3rd Platoon, 807th Medical Company (Air Ambulance) at Ft. Hood, TX. He arrived at Dhahran, Saudi Arabia on Christmas Eve, 1990.

During his military service, Hein was awarded the Army Achievement Medal, the Good Conduct Medal, and the Army Service Medal.

The aviator was buried with full military honors in Calverton National Cemetery, a service that included a flyover by four UH-1 Hueys in a Missing Man formation.

Hein is survived by his wife, Laura Michlik Hein, a native of Port Jefferson Station, NY; his daughter, Melissa, 2; and his son, Christopher Kerry Hein, born 13 April 1991, at Darnall Army Community Hospital at Ft. Hood, TX; his parents, Peter and Patricia Hein of Sound Beach, NY; two brothers, Gregory and Peter, both of Sound Beach; two sisters, Tara Bijsterveld of Santa Fe, NM, and Christina Hein, of Sound Beach.

A memorial fund has been established to benefit CW2 Hein's wife and children. Donations may be sent to:

Benefit of the Family of Kerry Hein

c/o North Fork Bank

P.O. Box 12

Jamesport, NY 11947

Claude B. Lockey

Claude B. Lockey, a retired field service representative for Bell Helicopter Textron of Hurst, died at a Fort Worth, TX hospital on 5 April 1991. Mr. Lockey was born in Edinburgh, Scotland, and had lived in Fort Worth since 1966. He was a Mason and a member of the AAAA since 1966.

Mr. Lockey is survived by his wife, Romona Lockey of Fort Worth, TX.

AAAA CALENDAR

A listing of recent AAAA Chapter and upcoming National events.

October, 1991

✓ **Oct. 9.** Edwin A. Link Memorial Chapter Professional Dinner. Guest Speaker: Mr. George T. Singley, III, Assistant Secretary of the Army, Research and Technology. Morey's Restaurant, Binghamton, NY.

✓ **Oct. 9.** Redcatcher Chapter Professional-Social Meeting. Guest Speakers: John Murphy (Sr VP, Bell Helicopter Textron) and Jack Floyd (VP Marketing, Bell Helicopter Textron). Feucht Army Airfield, Main Hangar Building #1981.

✓ **Oct. 13.** Rhine Valley Chapter Munich Bus Trip. Departs Ben Franklin Village, Schuh Theatre Lot at 0600; Patrick Henry Village Middle School at 0700.

✓ **Oct. 14.** AAAA National Board Meeting, Sheraton Washington Hotel, Washington D.C.

✓ **Oct. 14.** AAAA Scholarship Board of Governors Executive Committee Meeting, Sheraton Washington Hotel, Washington D.C.

✓ **Oct. 19.** Lindbergh Chapter AAAA Golf Tournament. Melvin Price Support Center River's Edge Golf Course.

✓ **Oct. 23.** Monmouth Chapter Combined Professional Association Annual Luncheon. Guest Speaker: MG Alfred J. Mallette, Commanding. Ft. Monmouth Officers Club, Gibbs Hall.

✓ **Oct. 25.** Chesapeake Bay Chapter Halloween Party and Meeting. Edgewood Community Club, Bldg. E4650.

✓ **Oct. 25.** North Texas Chapter Third Annual Golf Classic. Hyatt Bear Creek Golf Club.

✓ **Oct. 25.** Savannah Chapter AAAA Golf Tournament.

Hunter Army Airfield Golf Course, GA.

November 1991

✓ **Nov. 2.** Lindbergh Chapter Casino Cruise and Buffet Dinner. Alton Belle Riverboat Casino Aces Cruise, Alton, IL.

✓ **Nov. 5-6.** 9th AAAA Aircraft Survivability Equipment Symposium. Hosted by Hughes Danbury Optical Systems, Inc., a subsidiary of Hughes Aircraft, El Segundo, CA.

✓ **Nov. 5.** AAAA ASE Award Presentation, Los Angeles Airport Marriott, Los Angeles, CA.

December 1991

✓ **Dec. 5.** AAAA Aviation Trainer of the Year Award Presentation. AAAA Air/Sea Rescue Award Presentation, & AAAA ROTC Award Presentation, Ft. Rucker, AL.

✓ **Dec. 6.** AAAA National Executive Board Meeting, Ft. Rucker, AL.

February, 1992

✓ **Feb. 1.** AAAA National Awards Committee Meeting to select CY91 National Award Winners.

✓ **Feb. 5-6.** 18th Annual Joseph P. Cribbins Product Support Symposium, sponsored by the AAAA Lindbergh Chapter. Stouffer Concourse Hotel, St. Louis, MO.

✓ **Feb. 5.** AAAA Outstanding Aviation Logistics Support Unit of the Year Award Presentation and AAAA Industry Award Presentations, Stouffer Concourse Hotel, St. Louis, MO.

April 1992

✓ **Apr. 8-12.** AAAA Annual Convention, Georgia World Congress Center, Atlanta, GA.

Aces

The following members have been declared Aces in recognition of their signing up five new members each.

CPT John S. Arnold
CPT Richard E. Arnold
CW2 David A. Bates
CPT Richard L. Bedwell, Jr.
CPT John J. Brooks
CPT Martin T. Carpenter
CPT Michael J. Delaney
CPT Michael A. DiGennaro
CPT Robert L. Douthit
CW2 Phillip D. Farris
CW4 Reid D. Feltmate
CW3 Kenneth W. Haynie
MAJ William D. Lewis
CW2 Andrew W. Lucas
CPT Robin D. Lynch
CW2 James P. Mallory
CPT Thomas J. McDaniel
MAJ Robert E. Payne
LTC Ralph W. Shaw
CPT James M. Simmons
CPT Paul M. Steele
LTC Thomas F. Stewart
CW4 Frank E. White
CW3 Jeffrey A. Wineland
CPT Kevin M. Woods

**See You
In Atlanta!**



**AAAA Annual
Convention,
8-12 April 1992**



HIGH HF STANDARDS FOR DEEP-STRIKE MISSIONS.

Now deep-strike missions by U.S. Army helicopters will benefit from new standards in HF radio performance.

These standards — ECCM/ALE capability — are available off-the-shelf today in the Collins AN/ARC-217 (V) High Frequency communications system. The ARC-217 is a derivative of the HF-9000 System, of which more than 1,000 systems are flying to date in applications worldwide.

Designed for reliable interoperable communications in hostile ECM environments, the ARC-217 sets new standards in mission reliability and mean time between failure.

Fiber-optic interconnects make the unit less susceptible to the effects of electromagnetic interference. The radio's embedded MIL-STD-188-148 Tri-Service compatible ECCM capability foils close-range ECM.

MIL-STD-188-141A Automatic Link Establishment (ALE) is also embedded in the ARC-217.

This capability, integrated with either an effective and simple control or MIL-STD-1553B bus interface, allows the pilot to concentrate on his critical mission objectives instead of controlling the radio.

And the ARC-217 maintains the ability to communicate with fielded high-frequency communications systems deployed by other services, including the IHFR equipment utilized by ground troops.

The ARC-217 — nothing less than the new standard for a new generation of HF communications.

For more information, contact: Collins Avionics and Communications Division, Rockwell International, 350 Collins Road NE, Cedar Rapids, Iowa 52498. (319) 395-1600. Telex 464-435.



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