

Army Aviation



NOVEMBER, 1967
SILVER ANNIVERSARY YEAR

When the Chinook topped the army's availability goal, we were there.

(see back cover)

AVCO

LYCOMING DIVISION
STAMFORD, CONN.



The ABC's of the Chinook.

The Chinook began as a superior helicopter. And it has been further improved by constant introduction of new developments.

The Chinook story begins with the CH-47A—the Army's dependable medium transport helicopter. Since its first flight in September, 1961 it has logged well over 125,000 hours — close to half of them under the toughest, roughest, combat conditions imaginable. It has all-weather, day-night capabilities, excellent hovering characteristics and it lifts 10,500 lbs. on a 100-nautical mile mission. Also, maintenance is easy.

But we wanted to make the Chinook better. So in May, 1967 the first CH-47B came off the production line and entered Army service. It has two new gas turbine engines, each one rated at 2,850 shaft horsepower, 200 shaft horsepower more powerful than the CH-47A's engines—plus a new rotor configuration which will boost payload to 14,500 lbs. and increase cruise speed by 25 knots.

Then it is planned that in Spring, 1968 the CH-47C Chinook (a still further improvement of the CH-47B) will be delivered to the Army with power per engine in-

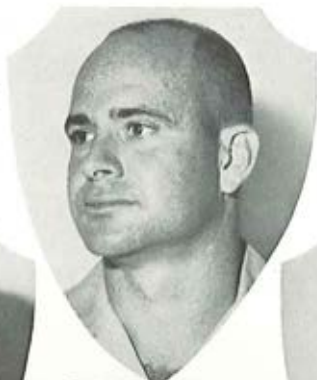
creased from 2,850 to 3,750 HP. These uprated engines and a strengthened drive system will increase carrying capacity to 19,100 lbs. and raise the Chinook's overall speed capabilities.

When the Army finds new requirements for the Chinook, we'll make whatever changes are needed. It's all part of our continued program to keep the Chinook a superior helicopter.

The Boeing Company, Vertol Division, Morton, Pennsylvania 19070

BOEING
Helicopters

Major
Bobby H. Freeman



Captain
Jerrell S. Reed, Jr.



Major
Clydie J. Crawford



This plaque goes to each Army pilot who logs a thousand flying hours in the Army Mohawk surveillance system. This month Grumman salutes Captain Jerrell S. Reed, Jr., Major Bobby H. Freeman and Major Clyde J. Crawford, all of whom have earned the 1000-hour Mohawk plaque.



Man is the heart of the system. Grumman never forgets it.

Captain Jerrell S. Reed, Jr. has been flying Mohawks since July, 1963. He has served as OV-1 instructor pilot for one year, followed by a tour with the 23rd SWAD and 73rd Aviation Company in Vietnam. After serving as company commander at Ft. Hood, Texas, for one year, Capt. Reed returned to Vietnam as Visual Platoon leader for the 73rd Aviation Company, where he is presently assigned.

Major Bobby H. Freeman has been flying Mohawks since September, 1962. Major Freeman's duty assignments include 18 months as platoon leader of the 101st ASTA platoon and one year with the 55th Aviation Company in Korea. Major Freeman was Company Commander in the 82nd Airborne Division and is presently Signal Officer with the 73rd Aviation Company in Vietnam.

Major Clyde J. Crawford was rated as an Army aviator in February, 1961, and completed Mohawk transition in July, 1962. Major Crawford was assigned to the 23rd SWAD as section leader in 1962-63 and with the 11th Air Assault Division in 1963-65. Since the spring of 1967 to the present time, Major Crawford has been assigned as Operations Officer of the 73rd Aviation Company in Vietnam.



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Aircraft Engineering Corporation
Bethpage, L.I., New York



**It's a new ball game
with the Army's HueyCobra**



Eighteen months from go-ahead Bell HueyCobras are ready for combat. U. S. Army commanders in Vietnam will have a new punch . . . more responsive direct fire support from over a ton of mixed ordnance. Four live hardpoints plus a flexible chin turret permit selection of a variety of machine weapons combinations. □ The fast, elusive AH-1G will improve U. S. Army capability for . . . escort of air-mobile operations . . . delivery of preparation fires in the landing zone . . . aerial reconnaissance and

security . . . and direct fire support for ground operations. □ The two-man Cobra crew has equal and unlimited visibility with improved protection. □ Pilots and mechanics will find the AH-1G as easy to fly and maintain as its famous Huey predecessors. For more information write Dept. 1817.



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ARMY AVIATION

NOVEMBER, 1967

Endorsed by the Army Aviation Ass'n of America

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SEVEN OTHER DANGER SIGNALS

- 1** Unusual bleeding or discharge
- 2** A lump or thickening in the breast or elsewhere
- 3** A sore that does not heal
- 4** Change in bowel or bladder habits
- 5** Hoarseness or cough
- 6** Indigestion or difficulty in swallowing
- 7** Change in a wart or mole

See your doctor immediately if any of Cancer's Seven Danger Signals lasts more than two weeks.

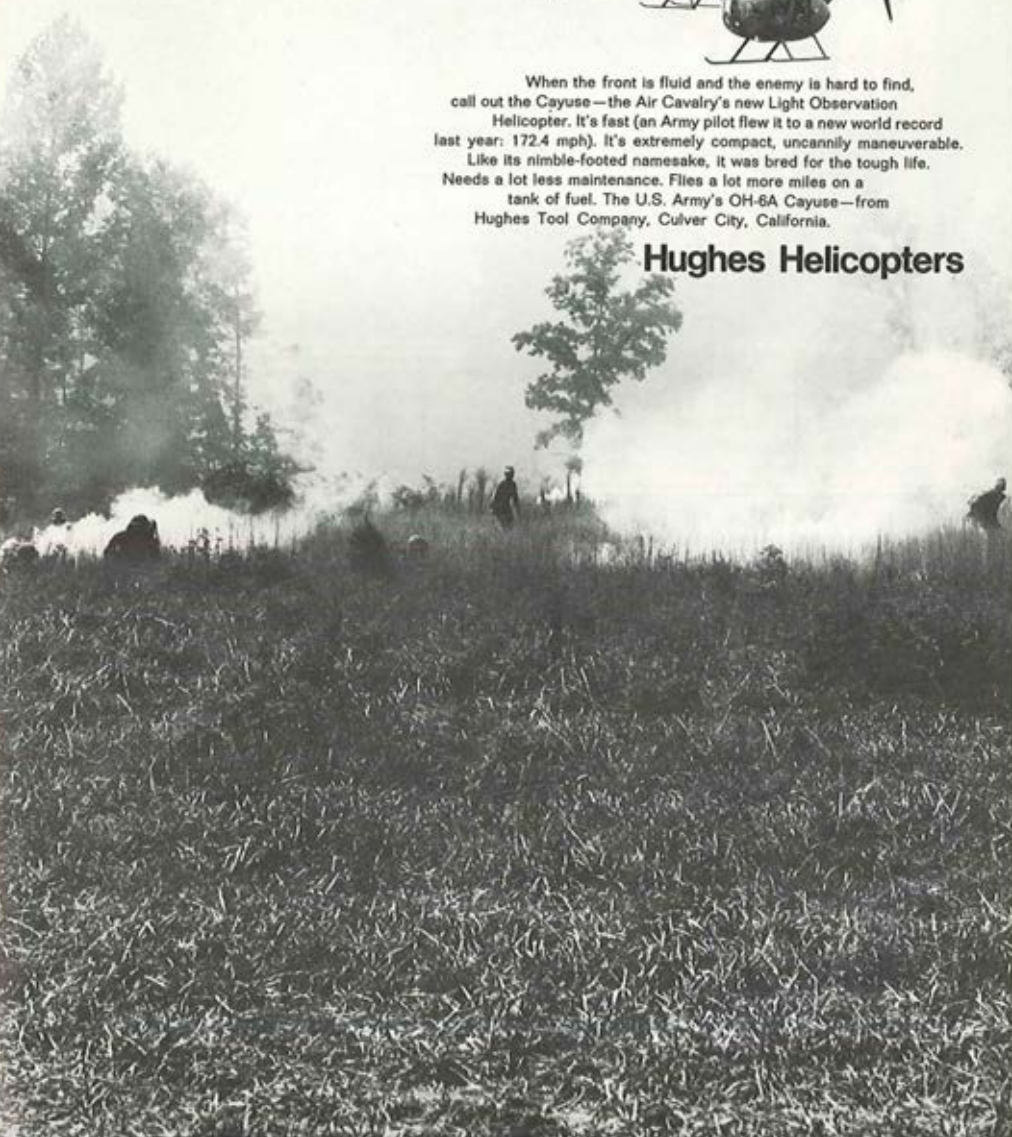
AMERICAN CANCER SOCIETY 

**Here comes
the
Cayuse!**



When the front is fluid and the enemy is hard to find, call out the Cayuse—the Air Cavalry's new Light Observation Helicopter. It's fast (an Army pilot flew it to a new world record last year: 172.4 mph). It's extremely compact, uncannily maneuverable. Like its nimble-footed namesake, it was bred for the tough life. Needs a lot less maintenance. Flies a lot more miles on a tank of fuel. The U.S. Army's OH-6A Cayuse—from Hughes Tool Company, Culver City, California.

Hughes Helicopters



Letter to an Aviator

Dear Jim,

Delighted to learn you have graduated from Flight School and to know the long hours of demanding, flight training at Fort Wolters and Fort Rucker are behind you. I know you've had a stimulating, enjoyable experience although I'm certain there were many instances when you wondered if you would actually make it; the long hours of academic training; the rigorous flight training; the comprehensive flight checks; all the training factors that have made you an *Army Aviator*.

You are now a warrant officer and an aviator in the United States Army. *What does this mean?*

First of all as a warrant officer, you are a soldier of the United States Army, just like the highly motivated young troopers, the dedicated noncommissioned officers, and your professionally competent commissioned officer brothers.

By

LTC KENNETH D. MERTEL
U.S. Army War College

Sometimes a new warrant officer forgets he is a soldier, especially an aviator who tends to think that he is something extra special, and does not have to conduct himself like other members of the military profession. Although it is true that he is something special in possessing a new technique-specialized training that is quite different than others—he is still as much the soldier as anyone else in uniform.

As a soldier, the WO must observe the motivation and discipline of mind and body, personal appearance, conduct, and attitudes in his relations with others, as does any other soldier in our Army. There is nothing more discouraging than the sight of a sloppily dressed young warrant officer reporting to a unit; one who has forgotten the basic principles of soldiering, military courtesies, and performance expected of him by both his juniors and his seniors.

You're still a soldier!

Remember that you were a soldier before you entered flight training! Nothing has changed. You're still a soldier, but now have the additional responsibilities required by your commission as a warrant officer—and

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you have the similar responsibilities you had when you were a noncommissioned officer or a trooper before, and as your commissioned brethren do now.

Your major task when you reach your first unit will be to take the base of training you attained at school and apply it in your unit in the field. You may have a period in the United States with some of the few remaining aviation units. If so, this will provide you a chance to sharpen both your leadership abilities as a warrant officer leader and your flying proficiency as an aviator. There are many things you have to learn as an aviator in order to be prepared for combat in Vietnam.

A "Can Do" Attitude!

One of the first things you must acquire as a matter of habit is the "Can do" attitude. One of the most important qualities of any soldier is the ability to get the job done, to accomplish the task with the desired results. This is most important *everywhere* in the Army, including Army aviation.

You'll find sometimes that the task seems almost insurmountable, or you'll think it's too great a risk for you and your machine to accomplish the proposed mission. But if you look around and study the situation carefully, you'll find that there is a way to perform that task in the manner and with the standards your leaders expect of you.

You're the technician in performance of your aircraft and what it can physically perform. Don't forget the Infantry leader for whom you'll be working is the boss. He'll tell you what to do. He'll give you the mission. It's up to you to accomplish that mission.

A soldier does not have an option or choice in whether he can execute a job or whether he cannot. It is not his prerogative to determine whether or not a task is too hazardous or that he might get killed or wounded, and therefore does not want to perform that job. The Army does not permit a machine gunner to decide whether he should fire his machine gun in combat against the enemy. The rifleman is not permitted to decide if he and the other members of his squad should attack the enemy. Nor does the aviator arbi-



LIEUTENANT
COLONEL
KENNETH D.
MERTEL

trarily decide that he cannot perform his job.

There have been those who have tried to evade a mission because they had the ability to "snow" or convince their combat leader the weather was too bad, or the load was too big, or some other equally supposedly valid reason. However, the *effective* aviator — the motivated soldier — tries to find a way to carry out his mission.

There is a way to complete every mission 99 times out of 100 — one which will not exceed the capabilities of the machine or exceed your own capabilities and proficiency as an Army Aviator, and will permit you to accomplish the mission assigned by your Infantry leader to help him carry out his mission.


The Army Team

Never forget that you work for that Infantryman! He and his unit are your reasons for existence as an Army Aviator. Army aviation is but a portion of the great *Army Team*. It fits into the *Army Team* the same way firepower does from the artillery; the same way that engineer, signal, and other combat support or service support advances the *Team*. Success in battle requires each member to accomplish his task, so the *Team* may accomplish the mission of closing with and destroying the enemy.

Airmobility and you . . .

You have heard a lot about airmobility and what it is. Airmobility has truly placed wings on the Infantry soldier. It's a new tactical concept, as you know, developed first in 11th Air Assault days, in 1963, '64 and '65 and brought to maturity by the 1st Cavalry

(Continued on Page 44)



Computer-directed fire control system utilizes laser beam range finder; highly magnified, stabilized sighting. Enhanced night capability planned for.

Weaponry capability includes grenade launcher, machine guns on turrets; rockets and antitank missiles; fired by 2-man crew. Rearming time: 10 min. Reconfiguration time: 10 min.

Sponsons store fuel. Cheyenne's endurance: 5.4 hr. Range: 874 mi. Ferry mission range: 2,886 mi.

Brand new bird tries its wings

Cheyenne's maiden flight at Lockheed-California Company's Van Nuys, California plant puts Cheyenne another step closer to the day it can serve the foot soldier in battle...and is a further measure of Lockheed's responsiveness to the U.S. Army.

The first rotary wing craft ever specifically designed

as an integrated weapon, the AH-56A Cheyenne was built by Lockheed in response to Army demands for a mobile yet stable firing platform. A compound aircraft, Cheyenne will hover, take off and land helicopter style. It will fly with an airplane's speed, range and agility. And it can attack with a devastating array of



Rigid Rotor gives superior controllability in flight, solid stability as a firing platform. Design simplicity eliminates many parts, adds reliability, trims weight, cuts maintenance.

Pusher propeller supplies forward speed. Level flight: 250 mph max., 240 mph cruise. Max. rate of climb: 3,420 ft./min.

26.7-ft. wing supplies lift in forward flight. Needs no control surfaces.

Cheyenne's service ceiling: 26,000 ft. Hover ceiling: 10,600 ft. Acceleration: 0 to 230 mph in 38 sec. Deceleration: 230 mph to 0 in 17 sec.

highly accurate weapons. Whether escorting helicopters, or softening landing sites, Cheyenne's mobility and firepower can add mightily to the field commander's arsenal.

Rough and ready, Cheyenne will spend more time in the air, less time on the pad. Servicing turnaround time is a fast 9 minutes.

And Cheyenne is designed to go 300 hours between inspections.

The proven ability to understand present mission requirements and anticipate future ones, coupled with technological competence, enables Lockheed to respond to the needs of this nation in a divided world.



LOCKHEED
LOCKHEED AIRCRAFT CORPORATION

DA ESTABLISHES INTENSIFIED CONFIRMATORY TESTING

By **COLONEL EDWIN L. POWELL, JR.**
DIRECTOR OF ARMY AVIATION, OACSFOR

RECENTLY, the Department of the Army has formally established a new type equipment test called "Intensified Confirmatory Tests". This test is applied, when considered appropriate, to early production equipment (as opposed to prototypes). Its principal objective is to prevent surprise mechanical failures and identify performance degradation which will occur during the normal service life of the item, i.e., in the hands of troops

and under field conditions. In short, it is a "user" test in the truest sense of the term.

The test should be particularly valuable for new aircraft because it can, in the course of giving an early indication of wearout rates of various parts and components, lead to more judicious and timely procurement and stockage of repairs.

In this light, we have nominated the OH-6A and the AH-1G for intensified confirma-

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tory testing. At this writing the tests are underway. The test of the AH-1G is being conducted in conjunction with transition and gunnery training at Ft Stewart/Hunter Army Airfield. The way it works is like this:

- Five AH-1G's are selected at the outset and remain the test aircraft throughout the period of the test.

- Each aircraft is flown a minimum of 100 hours per month, for a total of at least 1200 hours per aircraft. Testing will include the maximum use/operation of all systems.

- Maintenance capability is augmented to support the required level of activity. Supply procedures and priorities are adjusted as necessary.

- An expeditious spot reporting system is included in the test procedures as well as in-process reviews and, of course, a final report.

- Principles of safe aircraft operation are not compromised during the test.

The OH-6A intensified confirmatory test is very similar to the above. Significant differences are that it is being done by units at Ft Knox and will accumulate a minimum of 1000 hours on each aircraft rather than 1200.

So far the tests are proceeding satisfactorily, and I have great confidence that we will derive much benefit from them.

PILOT ERROR

I am increasingly concerned with the number of accidents which are occurring, and which are due primarily to pilot error. We have recently totaled a U-21 and a Cobra

and have been chopping tailbooms off OH-6's with distressing regularity.

Statistically, it is well established that every new aircraft system entering the inventory starts its first year with an accident rate roughly three times the Army average. It is perfectly understandable that there will be a learning curve for operators of a new item of equipment.

However, that the curve has to be traced by points on an accident experience chart is not acceptable. Since we know there will be a greater risk from lack of familiarity and experience, the logical counterweight is a correspondingly heavier emphasis on individual judgment and forethought.

One point is of particular importance in this respect. It is the natural tendency to get carried away with the improved performance which characterizes our newer aircraft. It is tempting, even for older and supposedly seasoned aviators, to indulge in maneuvers and little excesses which may be well within their individual capabilities *after* they have acquired a full background of experience with the new toy, but which, early in their learning period, border on the reckless.

I have emphasized the individual's responsibility in the foregoing, but the problem is two-sided. I suspect that if one could look more deeply into the causes of the accidents referred to, he would find that one or more supervisors were equally culpable. There is an all-too-common tendency to take an aviator, transition him, standardize him, and then forget him.

(Continued on Page 14)



INTENSIFIED TESTING

(Continued from Page 13)

I know that the press of operations, the urgency of the mission, and the atmosphere of confidence which are normal to Army aviation activities militate against the careful evaluation of the demands of each mission and the capabilities of each crew. However, when new aircraft systems are involved, the deliberate matching of missions with aviator capabilities is paramount.

Branch Qualification

Many commissioned aviators are understandably concerned about the curtailment in branch qualifying schools and assignments for aviators.

This problem has been the subject of constant and intensive effort by Department of the Army to minimize both the degree of curtailment and its impact on aviator careers. Although we are not out of the woods and probably won't be for another two years, there are some reassurances which I would like to pass on to you.

First, deferment of career schooling and suspension of ground duty has *not* been a factor in aviator promotion opportunity. This has been amply evident in the breakout of aviators vs non-aviators on promotion lists, as

published here in the monthly newsletter by my predecessors. This table recapitulates data previously published on promotions to lieutenant colonel and major.

Secondly, attendance of aviators at C&GSC and equivalent courses has not decreased as a result of the Vietnam conflict but has in fact been increasing, as illustrated below:

FY	No. of Aviators
1965	179
1966	210
1967	210
1968	218

For this year (FY 68), the above number of aviators represents 18.8% of the attendance from the seven branches which contain aviators. This is very close to the percentage of major and lieutenant colonel aviators (19%), to the total major/lieutenant colonel population of these branches.

Finally, the career schooling problem, which is the major concern of company grade commissioned aviators, promises to be solved before it can impact on the futures of the officers concerned. As of 30 June 1967, there were 1005 (18.5%) captain and major aviators in the career course zone of consideration who have not attended their career course. This percentage is admittedly higher — but not much — than the 16.3% of non-aviator contemporaries who are in the same category.

Furthermore, there are no aviators in their

Analysis of Army Promotion Schedules

Promotion To	Percent Selected		Circular Date
	Army Aviator	Army Non-Aviator	
LIEUTENANT COLONEL	72.0	60.8	Aug 1963
	72.7	69.6	Aug 1964
	76.4	72.0	Aug 1965
	76.0	74.5	June 1966
	77.2	62.5	Mar 1967
MAJOR	65.9	57.7	Jun 1963
	65.3	53.7	Jul 1964
	63.2	63.5	Jul 1965
	69.1	69.1	May 1966

INTENSIFIED TESTING

(Continued from Page 14)

last year of C&GSC eligibility who have not had the requisite career schooling. Accordingly, OPO does not anticipate a problem in reducing the backlog of aviators requiring branch schooling.

I don't wish to accentuate a negative but there will always be some aviators, along with some non-aviators, who will not be selected for either career school or C&GSC simply because their records reflect substandard performance. I am confident that the number of such officers will be small among aviator ranks and, based on my observations, proportionately smaller than non-aviators.

I am also confident that the personnel man-

agers in OPO and ODCSPER will give every fair and reasonable consideration to the end that any aviator who is "earning his keep" need have no reservation about his future.

WORLD-WIDE AVIATION CONFERENCE

The world-wide aviation conference I mentioned in last month's letter came off on schedule on Tuesday, 10 Oct. 67. The conference was well-received; in fact, so well received that an unprogrammed continuation session was called for the following day.

I believe it has been amply demonstrated that an annual conference is needed to discuss DA policies, problems, and programs and to exchange views. Accordingly, we will plan to have a world-wide aviation conference of this type each year.

Ho, ho, ho!

Dear Santa!

I want a 20mm cannon for my new *Huey-Cobra!*

I decided to write to you early and let you know what I want for Christmas, because my return trip to Vietnam will coincide with your annual visit.

Before you get mad and start muttering about not having room in your sleigh, let me remind you of Christmas Eve, 1965:

As you recall, my armed helicopter platoon was escorting you, and your reindeer, and your sleighful of goodies from Ben Cat up to Loc Ninh.

Everything was going well until we flew over Bau Bang II where some disappointed PAVN unit decided to get even with you for the large bundle of switches you left them the year before.

The .50 caliber and 14.5mm tracers began float-

ing up through our little formation, and you began to yell something quite unrelated to "Ho, ho, ho!" Shame on you!

Santa, I really felt badly about having to tell you to close your eyes and to break left. My platoon simply did not have anything with which to hit those big boys, and we just didn't feel brave enough to use our 7.62mm machine guns from as close as we would have to go in.

Let's face it, Santa . . . *No one wants to get greeted on Christmas Eve!*

You'll also recall the sad plight of poor ol' Rudolph when he finally landed at Loc Ninh. His tail had been struck by a tracer and it was difficult to tell which end his nose was on . . . I hope the fur graft worked!

Since your flight route will be the same this year I hope that you'll find your way clear to give me the 20mm cannon I'm asking you for. With my 20mm and about 1,000 rounds of ammunition, I'll be able to leave my silly rockets at home, carry more than 1,600 pounds of fuel, and be able to fly faster so that you can get finished before daylight.

I'll also be able to get spare parts and additional ammunition from the Air Force, Navy, and Marines while we make the stops along your route.

Give my best to Mrs. Claus, and all of your little elves.

Sincerely,
Green Cobra 6
(Major William W. Fraker)





From an original painting for Chandler Evans by Keith Ferris

MAIN FUEL CONTROLS

by
Chandler
Evans

The U.S. Army's HueyCobra, built by Textron's Bell Helicopter Co., is a high-speed assault helicopter able to fulfill a wide spectrum of fire-support roles. With greatly increased fire power, speed and maneuverability plus improved protection for the aircraft and crew, the AH1-G is powered by a Lycoming T53 gas turbine equipped with main fuel controls engineered and precision-produced by Chandler Evans.

This Chandler Evans product on the HueyCobra joins a distinguished line of pumps, main fuel controls, afterburner controls and other aerospace components in an array of important military aircraft and missiles as well as many of the latest and finest commercial aircraft.

Chandler Evans is pleased to be "known by the company its products keep" and by the records those products establish.

Colt Industries



Chandler Evans Control Systems Division

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GAS TURBINE FUEL CONTROLS/PUMPS • MISSILE CONTROL SYSTEMS/SERVOS • AIRCRAFT/ENGINE ACCESSORIES

THE ultimate purpose of an advanced flight control system is to remove the pilot from the cockpit.

Enroute to that objective, there are three recognizable phases. *First*, there is that "guidance" which tells the pilot to do something. This is the pointing needle or the green band on the face of an instrument, the flashing light, or the warning horn.

Second comes that "assistance" which helps the pilot perform an action. This is stability augmentation; hydraulic assists which multiply the pilot's muscles; those control linkages which add power as pitch is increased; or that design which coordinates the effects of one control with those of another.

Finally, comes the "installed aid" which performs an action for the pilot. This can be considered to be the ultimate: the automatic pilot which responds to electronic signals from the ground — either reducing

By
S. G. NILWAR

the airborne human to the role of a monitor, or eliminating him from the system. The first phase of the transition may be considered complete. The third phase, despite experimentation and demonstration of equipment such as the QH-50, is still in the future.

The proponents of a rapid entry into the second phase have had a rough row to hoe — not because technology is lacking, but because of deep-seated objections on the part of those individuals whom the installed aids were designed to help. For several reasons, this "helping" has carried with it some undesirable overtones. Obviously, it reduces the importance of the job which the pilot — the acknowledged head of the present flight control system — is called upon to do.

Who gets the Air Medal?

Can you imagine a proud aviator explaining to his awed son that only father's quick action in replacing a fuse on Number Seven bank made it possible for the General to continue observing into Zebra sector?

Would you believe the suspenseful moments of indecision prior to the choice of seat positioning?

Who gets the Air Medal for a successful flight? The ground controller? The airborne monitor? The on-board computer?

What is the penalty for failure to clean the flight program tape before it is inserted in the electronic scan-

Relieving THE PILOT LOAD

It's a cargo carrier!
It's a troop transport!
It's a staff transport!
It's a flying ambulance!



It's the Beechcraft U-21A...now in

Huge double doors and hefty one-and-three-quarter ton useful load enhance its capability as a high-priority cargo carrier. In-the-field conversion to any of its other utility configurations is quick and easy.

This remarkable versatility combines with proven dependability and exceptional performance to make the U-21A the ideal multi-mission airplane. Now in daily use, the traditionally rugged Beechcraft construction is meeting the diversified demands of urgent front-line operations.

Twin turboprop power provides quiet, efficient, trouble-free operation at both high and low flight levels. Amazing short and rugged field capability. Full all-weather dependability.

Big plane range, payload and positive "feel". Yet the U-21A will save its cost over and over again when operated instead of larger aircraft.

The worldwide Beechcraft service organization provides easily accessible parts and expert service, eliminating the need for an expensive logistic support program.



continuous production!

The U-21A is just one member of the Beechcraft family of utility aircraft. Each is built with growth potential in mind, to be quickly adaptable to meet the demands of the future. Write now

for full information, performance data, mission profiles and growth factors. Address Beech Aerospace Division, Beech Aircraft Corporation, Wichita, Kansas 67201, U.S.A.

Beech *Aerospace Division*

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RELIEVING THE PILOT

ner? A speck of dust becomes terribly important when it is read as 50,000 feet, rather than as the intended 500.

Then too, "helping" the airborne pilot appears to place an extremely large burden on a ground controller who, not being there, is ill-equipped to make those immediate decisions which affect safety of flight. A drop of spilled coffee on his data sheet could result in sending a dozen aircraft to the same area at the same time and altitude.

What widow would be comforted by knowing that her man was straight, level, and at the programmed point in space when he rammed into an unexpected communications tower? Errors are not necessarily reduced by forcing all decisions upon one man; the only certain reduction is in sources of error.

A new set of problems

There remains the conviction — primarily among the older group — that sophisticated equipment has not answered problems; it has merely created a different set. There has never been a military requirement to fly without seeing; *the requirement has been to see without flying.*

Terrain avoidance, station-keeping, ground controlled approaches, instrument landing systems and the like have not offered solutions to the requirement; they have simply devised answers for an adopted alternative. This group also remembers that sophistication has cost megabucks, and

they have an uncomfortable feeling that we would have been better off with more-and less sophisticated-gear.

However cogent these arguments may be, there are two factors which render them impotent. One factor is the slow but inexorable pace of change — the demand of the new generation to try things not opted by the old.

Given the capability to live on the moon, some guy *will* make his home there. Given the capability to lift sixty tons with a single helicopter, we'll design loads to fit — even if it takes the national supply of feather pillows. Given the capability to view the location and activity of a single infantry squad, few division commanders will resist the opportunity to supervise squad tactics. Neither, for that matter, will his superiors at Corps, Army, or Washington, D.C.

The second factor is equally compelling: manpower is our most valuable commodity and it requires the longest lead time to ensure availability. Anything which reduces the demand for and upon men (especially in combat) has to be welcomed with open arms.

General Arnold, who may have had little respect for Army aviation, did have respect for pilots of any Service, and he said in 1944: "*... For twenty years, the Air Force was built around pilots, pilots, and more pilots . . . The next Air Force is going to be built around scientists — around mechanically-minded fellows.*"

There were no aluminum-suited pilots in Korea, nor are they filling any cockpits at An Khe. When Army Aviators are required to return for second and succeeding tours of duty in Vietnam at a rate which exceeds the *entire* annual output of the Aviation Schools; when unit commanders are necessarily advised by higher headquarters that there is a limit to the number of hours which a pilot can be flown; when the Senate Preparedness Investigating Subcommittee declares that "*Pilots constitute a national resource*"; and when accident reports from Vietnam show pilot fatigue as a major contributing factor — when *all* of these conditions exist, it is time to move into phase two of the advanced flight control system at an accelerated pace and furnish some relief to the most important element of the system. Relief can be expected to show up in the form of reduced accident rates.

The motor skills

Of the non-combat aircraft accidents in Vietnam, approximately 80% are said to have been caused by something which the pilot did or failed to do. Some of these actions — or non-actions — involve the use of motor skills painstakingly learned at Service Schools. Some were in the application of judgment, much of which was gained by experience. The results were expensive; they cost *each* man, woman, and child in the United States about \$8.00 last year. They resulted in some 200 fatalities which cannot be costed.

Motor skills can be, and are, taught

well at the Service Schools. The timely operation of such skills, however, is dependent upon the action of certain reflexes which do not obey man-made laws and are not speeded up by platform or cockpit instruction. Successful operation is also dependent upon the proper functioning of *air judgment* — a facility primarily gained by personal, individual experience.

All the books, the platform instruction, the talks by greybeards, and the demonstrations by other pilots do little to convince the individual in training that *his* capabilities are bound by *their* rules. He, like his predecessors, will gain judgment from personal experience, and he, like his predecessors, will fume at his sons because they will not accept his judgment as final.

An arithmetical computation which divides the number of non-combat accidents by the number of operational aviators (excluding those in School training) discloses that each aviator can expect 1.3 accidents during a ten-year flying career. Given that his air judgment will improve as a result of his gained experience, and that his operational flying will be curtailed by his senior standing, his personal accident rate may be reduced to 1.0 for the fading half of his twenty-year career.

Modified by the 80% pilot-cause factor, this means that each Army Aviator can expect to have *one major accident* during his flying career which is directly attributable to his

RELIEVING THE PILOT

own error. The accident will cost about \$175,000 in current dollars. The odds are slightly in the pilot's favor that the accident will not write finis to his career. That's a happy statistic.

The act of flying — the business of moving a solid object through space during a given time — can have a forecastable accident rate based upon the saturation of airspace and the failure of materiel. The conditions of flying — the type of weather and wind, the experience and physical condition of the pilot, the urgency with which he approaches assigned tasks — these have little or no analytical application.

An indisputable fact!

Accident data have been turned every way but loose by simplists and sophisticates in an attempt to draw meaningful conclusions. So far, there has been but one indisputable fact about Army aircraft accidents; pilots get blamed for most of them.

That isn't surprising.

What is surprising is that no one will publicly admit that the pilot often serves as a scapegoat because there is no way to lay blame on a circumstance, a condition, or an attitude which, by its very nature, makes an accident inevitable. There is a tacit admission in the fact that accident reports are inadmissible in court-martials, but that's like trying to erase indelible ink — the mark is still there.

Pilots have adopted a tolerant understanding toward those senior of-

ficers who stop coughs and accidents by edict, but they do not yet afford the same tolerance to those who, having no knowledge of the facts, continue to consider them as unsafe truck drivers.

I once counted 82 separate and distinct movements made by a helicopter pilot during the two minutes prior to touchdown. These were physical movements initiated by a brain already engaged in the evaluation of options and alternatives:

"Land here? Over there? Can I hover? Do I need to hover? Look at that dust cloud! Is that a stump? Where does that screwball think he's going? Is that a Charlie? Look out for the tail rotor! Left turn out? What altitude? . . . etc., etc., etc."

Error in either the movements or the evaluations could have resulted in an accident — a pilot-caused accident.

An inevitable breakdown

Without belaboring the point, it is this necessity for decision/action in an increasingly compressed time period which can overload the circuits of the human computer. Continued overloading, either through the accumulation of events or the compression of time, will inevitably result in breakdown.

There is nothing to be gained by the addition of more pilots per aircraft. The 82 actions and the accompanying evaluations *cannot* be performed by committee action. There is something to be gained by increasing the pilot training, but only when we learn to instill judgment, increase



FT. WORTH — All smiles during Nov. 8 ceremonies at Bell Helicopter Company are LTG William B. Bunker (right), DCG of Army Materiel Command; Bell president E. J. Ducayet; and LTC Donald F. Luce (left), CO of AVCOM's Bell Plant Activity. The occasion was the roll-out of the 5,000th production UH-1 aircraft, the UH-1H in the background. General Bunker was on hand to accept the aircraft officially. First deliveries of the famed "Huey" were made in June, 1959.

FT. RUCKER — MG Delk M. Oden (second from right), CG of the Army Aviation Center, presents a certificate accompanying the Gold Broken Wing, a newly-established award for outstanding skill in recovering Army aircraft from in-flight emergencies, to LTC Atsuki A. Miyamoto (2d from left). Other USAAVNS pilots who received the lapel pin for exceptional professional skill are 2LT Jay E. Gillman (far left) and CWO Richard J. Whatley (far right).



the speed of reflexes, and make the pilot an error-free automation. This is patently impossible. Intermediate steps toward that goal are not practicable in the present environment, when the current demand for aviators and increasing numbers of air vehicles produce pressures for early graduation and quick deployment.

There are many offers from industry to help relieve the pilot load. As is to be expected, all are expensive; many entail risk; and some are overly optimistic. They can be lumped together and buried under a deluge of paper for many years.

They can, like V/STOL, be demonstrated in test beds until the test beds wear out. Or, they can be installed in operational aircraft and be tested in an active theater. Those which do reduce the pilot load could reduce accidents — or, more probably, they could be used to increase the bad-weather flying.

It could be that less-tired aviators will complain about their reduction in status. I doubt it. However, if you do find a few whose griping gets on your nerves, there's a quick way to get even:

Spill coffee on their data sheets!

OFF-LOADING IS FOR THE



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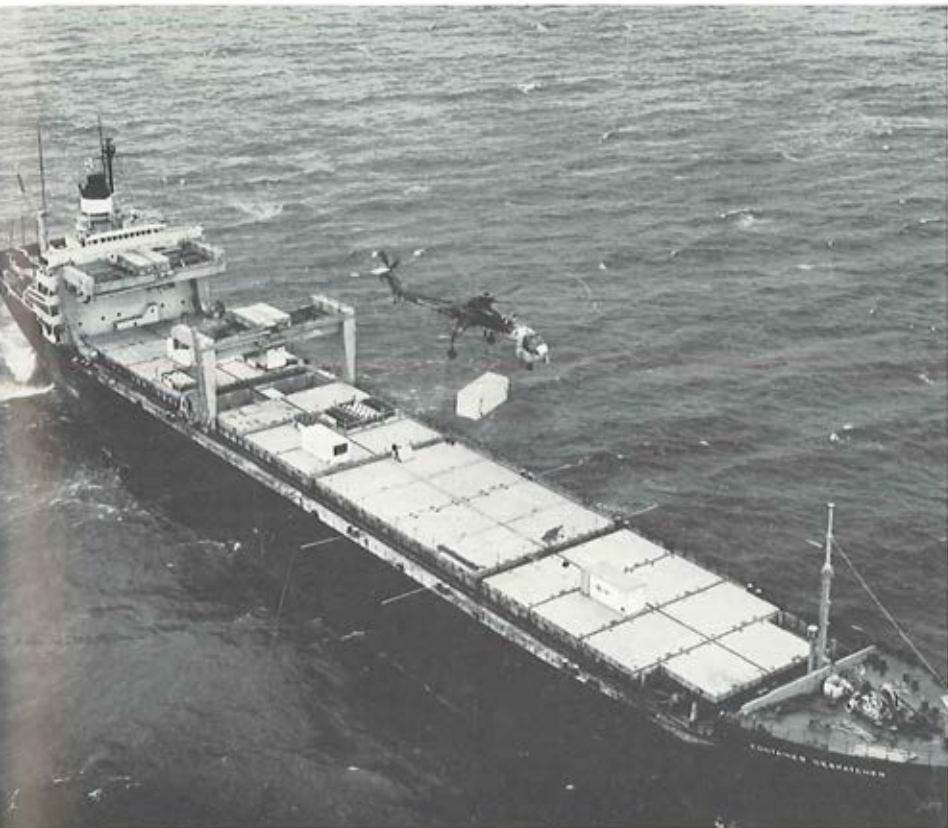
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NG BIRDS

One Sikorsky S-64 Skycrane® off-loaded over 30 containers — some as heavy as 10 tons — from an American Export Isbrandtsen Lines' containership. During the demonstration on Long Island Sound the seas ran eight feet high and the wind blew in gusts up to 50 mph. Yet if this had been Vietnam, all 462,000 pounds of cargo would have reached Marines five miles inland in five hours.

Skycrane-Containership teams are proposed for use where ports are crowded, inadequate or nonexistent. Four Skycranes shuttling continuously could unload a containership with 20,000 measurement tons of cargo in approximately 36 hours.

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AVIATOR PERSONNEL PLANNING

A discussion of the several actions affecting Army aviation manning levels
by Colonel John W. Marr, the Executive for Army Aviation, OPO, OPD, DA

TO meet the vast growth in demand for aviators in Southeast Asia, the Army took *three major actions* in aviator personnel planning.

The *first* of these actions was to expand the production of new aviators. During the past year and a half, training output has increased from 125 to 410 per month. Phased increases are now under way to bring 610 new aviators into the inventory each month by next August.

In all, there have been four major expansions in the training program, each geared to increased demands to fill deploying units and to replace aviators completing their one-year tour in Vietnam.

The *second major action* was to adjust the aviator manning levels worldwide. First priority was given to Vietnam and the deploying

units. The second priority was given to the aviation training base which must be manned at 100% to maintain a critical instructor-student ratio.

The manning level in other commands and agencies of the Army was substantially reduced to gain the availability of more aviators to sustain the priority commitments which were expanding at a rapid rate.

Use of existing personnel

To further bridge the gap between inventory and demand pending full output from the training expansion, it was necessary to take a *third major action* which was to intensify the utilization of the existing aviator population. This required the formulation of special aviator management policies, several of which are causing considerable con-

cern to our aviators today. An examination of these special policies will show why the aviator may have cause for concern:

A worldwide rotational base has been established for Vietnam. This created the condition for consecutive overseas tours. An aviator may rotate from Vietnam or another short tour area *directly* to another overseas area where an accompanied long tour is normal. While he is permitted to take his family to the long tour area he will probably be there only one year before returning to Vietnam. He may bring his family back to CON-US enroute to Vietnam.

Majors and captains are assigned to cockpit positions which are normally manned by lieutenants and warrant officers. Lieutenant colonels are assigned to lower grade aviator staff positions and, thereby, free more majors for cockpit duties. This policy permits the use of overages in majors and lieutenant colonels to bolster up a most pressing requirement.

Career schooling

Ground duty assignments and military and civilian schooling are being deferred for aviators in favor of continuous utilization in flying assignments. This policy is the *root of concern* to the career-oriented aviators since they tend to believe that they are falling behind their non-aviator contemporaries in branch qualification and opportunities to serve in assignments of greater responsibility and career advancing value.

Stabilized tours for majors and captains are being curtailed. While this does not contribute directly to increased utilization of these grades it does spread the burden of short tours on a more equitable basis.

Requests for removal

Most requests for removal from the aviation program are being denied. To conserve our flying strength removal is approved only in those cases involving cowardice, refusal to fly, fear of flying, and flagrant violation of flying regulations.

Grounded aviators are being used in aviator positions for which aviator expertise is required but for which the maintenance of aeronautical skills is not essential. Certain plat-

AH-1G ORIENTATION



Vietnam — GEN William C. Westmoreland, commander of the U.S. Army, Vietnam, is shown in a tandem-seat, two-place Huey-Cobra shortly after the arrival of the first of the new gunships in USARV. The AH-1G weapons platform carries more than a ton of mixed weaponry.

form instructor and staff assignments are examples of positions in which grounded aviators can be employed to free able aviators for cockpit duties.

To further increase the utilization of our aviator population the short tour deployment criteria has been lowered. Aviators can be sent as a replacement to Vietnam with as little as six months obligated service remaining. They can be deployed with a unit with as little as three months obligated service remaining. This has the desirable effect of increasing the interval between short tours for all aviators.

Experience has shown that we can use up to 75% new aviators in deployable units and the replacement flow to Vietnam. This means that all the training output is immediately usable against the short tour requirement. In addition, the interval between tours for experienced aviators will increase by reason of having to fill only 25% of the flow to Vietnam with a gradually increasing return flow of experienced aviators.

Transition Training

Transition training is being increased by about 500 this fiscal year. Transition not only permits manning of the increasing inventory

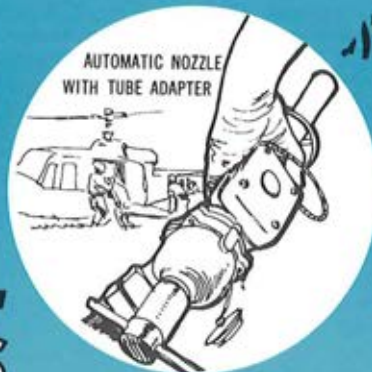
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Concept by U. S. Army Aviation Materiel Laboratories (AVLABS), Fort Eustis, Virginia



5000 Triggs Street, Los Angeles, California 90022

AVIATION CAREER PLANNING

(Continued from Page 27)

of new aircraft such as *Cobra*, *Chinook*, and *Crane* with experienced aviators, but it increases the depth of skills and provides greater flexibility and equity in assignment of aviators as well. We are finding it increasingly necessary, however, to transition new aviators to help man the larger and more advanced aircraft.

It appears that these policies must continue in effect for a year and a half to two years more. Reference has been made to the adverse impact of these policies on the aviator population. The two chief concerns are the frequent family separations and dislocations which are occurring from repetitious tours to Vietnam and consecutive overseas tours and the deferment of opportunities for branch qualifying ground tours and schooling in favor of repetitious flying assignments.

Family separations

To minimize the impact of family separation, current policy provides for:

- Aviators to move their dependents to overseas areas where accompanied long tours are normally authorized even though the aviator may be there only a year.
- Stabilizing aviators returning from Vietnam insofar as practicable at a station where they can remain with their families until it is necessary to return the aviator to Vietnam.
- Aviators assigned to a deployable unit and who have not moved their dependents to the station if the unit is delayed in deployment 45 or more days.

Career development

Several actions have been taken to minimize the impact of reduced opportunities for career development assignments.

- No deferments are being imposed on aviators selected for Command and General Staff College and higher level schooling. Only career course schooling is being deferred and close monitoring indicates that only a few who failed selection prior to the aviation expansion may not go to their career course

prior to passing their first year of eligibility for C&GSC.

- Every effort is being made to afford the opportunity for entering the degree completion ("*Bookstrap*" program) to those aviators who are nearing the end of their eligibility for the program.

- The requests of a few highly qualified aviators are being approved for advanced degree schooling in aviation related fields such as aeronautical engineering.

- It appears that ground duty assignments can be resumed in late FY 69 when about 1,450 aviators will be needing branch qualifying tours. The possibility of earlier resumption of such tours is now under study.

- Instructions have been sent to commanders in the field to make appropriate remarks in efficiency reports to explain the circumstances of aviators who are assigned to positions calling for a grade below that of the incumbent. Selection boards are instructed to judge on performance and not necessarily on the job held.

- Aviators who are deferred in career course attendance receive a letter signed by the Director of Officer Personnel explaining the circumstance and a copy is placed in the aviator's file for the purpose of bringing to the attention of selection boards that the deferment should not be the basis for unfavorable personnel actions.

- A memorandum for record signed by the Director of Officer Personnel explaining the adverse impact of the aviator assignment policies is placed in the file of each captain and major. It bears a caution to selection boards to carefully weigh these considerations on an individual basis to insure that the current circumstances are not translated into long range impacts.

There has been a mushroom growth in the Army aviation commitments. The Army is striving very hard to keep up with the commitments through judicious application of its growing inventory to worldwide manning levels and by expanding the training output. At the same time it is striving equally hard to minimize the hardships imposed on the individual aviator through the restrictive policies which keep him in the cockpit on repetitive tours in Vietnam.

OBITUARIES

ANTE — In Vietnam, First Lieutenant James L. Ante, 118th Helicopter Company, on September 3, 1967, due to a helicopter accident; son of Mrs. Mary M. Parson, 1335 Wheeler Street, Covington, Ky., 41011, and Anthony Ante, 1544 Woodburn Avenue, Covington, Ky.

BOSLEY — In Vietnam, Warrant Officer James G. Bosley, 52nd Aviation Battalion, on September 2, 1967, due to a helicopter accident; ward of Mrs. Agnes J. Valentine, New Creek, W.Va.

BOWEN — In Vietnam, Warrant Officer Ralph E. Bowen, 227th Aviation Bn, 1st Cavalry Division (Airmobile), on October 5, 1967, due to an aircraft accident; son of Mr. and Mrs. Wayne Bowen, 306 Grand, Michigan Center, Mich.

BRYAN — In Vietnam, Major Blackshear M. Bryan, Jr., 1st Aviation Brigade, on September 22, 1967, due to an aircraft accident; husband of Mrs. Catherine B. Bryan, 3080 Slater Avenue, Reno, Nevada.

BURLINGHAM — In Vietnam, First Lieutenant Robert G. Burlingham, 44th Medical Brigade, on October 6, 1967, due to an aircraft accident; son of Robert P. Burlingham, 30 Feather Bed Lane, N. Kingston, R.I. and Mrs. Nannie Busby, Narragansett Avenue, Jamestown, R.I.

BRASHER — In Vietnam, Captain Jimmy Mac Brasher, 131st Aviation Company, on October 18, 1967, due to an aircraft accident; husband of Mrs. Sally F. Brasher, 2601 12th, Canyon, Tex. (Originally reported as missing in action on September 28, 1966).

CLARK — In Colorado, Warrant Officer John A. Clark, 195th Aviation Company, Fort Carson, Col., on August 9, 1967, due to a helicopter accident; son of Mr. and Mrs. Harold A. Clark, 241 South Seymour, Napa, Calif.

COLITO — In Vietnam, Warrant Officer James M. Colito, 1st Cavalry Division (Airmobile), on September 16, 1967, due to a helicopter accident; son of Mr. and Mrs. James M. Colito, Sr., 3118 N. 32nd Street, Tacoma, Wash.

COOK — In Texas, Warrant Officer Conny Clayton Cook, 55th Aviation Battalion, Fort Hood, Tex., on September 2, 1967, due to a helicopter accident; husband of Mrs. Brigitte R. Cook, 138 Northeast 46th Street, Mineral Wells, Tex.

DANIEL — In Vietnam, Warrant Officer James L. Daniel, 119th Aviation Company, on September 2, 1967, due to a helicopter accident; husband of Mrs. Wanda Daniel, c/o Roy P. Brown, Rural Route 1, Box 92A, Cleveland, Tenn.

DECHENE — In Vietnam, Warrant Officer Robert N. Dechene, 1st Cavalry Division (Airmobile), on September 17, 1967, due to hostile action; son of Mr. and Mrs. Marcel P. Dechene, 269 Granite Street, Biddeford, Maine.

DEROSIER — In Vietnam, Captain Thomas A. Derosier, 187th Assault Helicopter Company, on July 7, 1967, due to a helicopter accident; husband of Mrs. Jacqueline Derosier, 35 Oliver Street, Fall River, Mass.

DONAHUE — In Vietnam, Warrant Officer James T. Donahue, Jr., 1st Aviation Brigade, on September 22, 1967, due to hostile action; son of Mr. and Mrs. James T. Donahue, Sr., 945 West Grant Drive, Des Plaines, Ill.

DORIS — Chief Warrant Officer (W2) Cornelius J. Doris, 3rd Brigade, 28th Infantry Division, Pennsylvania National Guard, on August 25, 1967, due to a helicopter accident; husband of Mrs. Gertrude Doris, 946 Springfield Road, Collingdale, Pa.

EVANS — In Georgia, Captain Charles H. Evans, U.S. Army Aviation School Element, Hunter Army Airfield, Savannah, Ga., on September 5, 1967, due to a helicopter accident; husband of Mrs. Christel Evans, 13211 Spanish Moss Road, Savannah, Ga.

FRANCIS — In Virginia, Chief Warrant Officer (W3) William J. Francis, U.S. Army Transportation School, Fort Eustis, Va., on October 10, 1967, due to an aircraft accident; husband of Mrs. Joan Francis, Newport News, Va.

FULTZ — In Virginia, Specialist Sixth Class Roger C. Fultz, U.S. Army Transportation School, Fort Eustis, Va., on October 10, 1967, due to an aircraft accident; husband of Mrs. Katsuko Fultz, Newport News, Va.

GALLEGO — In Vietnam, First Lieutenant Lawrence Gallego, 43rd Medical Group, on October 4, 1967, due to an aircraft accident; husband of Mrs. Karen F. Gallego, 700 North 5th Street, Corvallis, Ore.

HARGER — In Vietnam, Warrant Officer Don R. Harger, 1st Aviation Brigade, on August 17, 1967, due to an aircraft accident; husband of Mrs. Diane Harger, 119 Roosevelt Drive, Brick Township, N.J.

JENKINS — In Germany, Major Robert L. Jenkins, 122nd Aviation Company, Hanau, Germany, on October 12, 1967, due to an aircraft accident; husband of Mrs. Anne C. Jenkins, 924 Coss Street, Corinth, Miss.

JOHNSON — In Virginia, Chief Warrant Officer (W2) Marvin L. Johnson, U.S. Army Transportation School, Fort Eustis, Va., on October 10, 1967, due to an aircraft accident; husband of Mrs. Mary L. Johnson, Clayton, N.C.

JONES — In Vietnam, Warrant Officer Wayne E. Jones, 1st Aviation Brigade, on August 17, 1967, due to a helicopter accident; husband of Mrs. Dolores J. Jones, 84½ Bloomingdale Avenue, Saranac Lake, N.Y.

KETHLEY — In Germany, Captain Elbert R. Kethley, Hq, 35th Artillery Group, Bamberg, Germany, on September 25, 1967, due to an aircraft accident; husband of Mrs. Alma B. Kethley, 1602 Quinn Street, Bossier City, La.

KUHNS — In Vietnam, Captain Kurt L. Kuhns, 15th Medical Battalion, 1st Cavalry Division (Airmobile), on September 8, 1967, due to an aircraft accident; husband of Mrs. Patricia A. Kuhns, 5691 31st Avenue North, St. Petersburg, Fla.

MATTERN — In Vietnam, Warrant Officer Ricky P. Mattern, 12th Aviation Group, 1st Aviation Brigade, on September 3, 1967, due to a helicopter accident; husband of Mrs. Diane Mattern, 1515 Lombard Avenue, Everett, Wash.

MIGNEREY — In Alabama, First Lieutenant Clifford O. Mignerey, 90th Replacement Battalion, USARV, on TDY with USAAVNS, Fort Rucker, Alabama, on October 16, 1967, due to an aircraft accident; husband of Mrs. Cynthia Mignerey, 39 Templeton, Daleville, Ala.

MEMORIAL SCHOLARSHIP

Friends of Captain Frank R. Kerbl, who was killed in Vietnam on October 7, 1967, have established a "Frank R. Kerbl Memorial Scholarship" and have contributed donations to a separate fund administered in his name by the AAAA Scholarship Foundation, Westport, Conn.

Captain Kerbl's widow and five children reside at 116 North Sunset Circle, Hopkinsville, Ky. 42240.

MORROW — In Vietnam, Major Boyd E. Morrow, 188th Aviation Company, 12th Aviation Group, 1st Aviation Brigade, on October 13, 1967, due to an aircraft accident; husband of Mrs. Jeanne F. Morrow, 217 Curtis Street, Crewe, Va.

PERRY — In Virginia, Captain James P. Perry, U.S. Army Transportation School, Fort Eustis, Va., on October 10, 1967, due to an aircraft accident; husband of Mrs. Gloria Perry, Idaho Falls, Idaho.

PHIPPS — Warrant Officer Donald R. Phipps, 227th Aviation Battalion, 1st Cavalry Division, on October 5, 1967, due to an aircraft accident; husband of Mrs. Ruth M. Phipps, 5743 Magnolia Avenue, Riverside, Calif.

PLAMONDON — In Germany, Major Robert P. Plamondon, 122nd Aviation Company, Hanau, Germany, on October 12, 1967, due to an aircraft accident; husband of Mrs. Irene R. Plamondon, 46 Dover St. Manchester, N.H.

POREA — In Vietnam, Warrant Officer Robert G. Porea, 44th Medical Brigade, on October 6, 1967, due to an aircraft accident; son of Mr. and Mrs. Raymond Porea, 3207 Kirk Road, Youngstown, Ohio.

PRESSON — In Vietnam, Captain Billie T. Presson, 1st Aviation Brigade, on September 20, 1967, due to hostile action; husband of

Mrs. Cynthia M. Presson, 211 East 18 Street, Benton, Ky.

ROBINSON — In Vietnam, Captain Winston T. Robinson, 1st Cavalry Division (Airmobile), on September 6, 1967, due to hostile action; husband of Mrs. Sandra S. Robinson, 620 Greenville, Rector, Ark.

ROSE — In Vietnam, Warrant Officer Roger C. Rose, 1st Cavalry Division (Airmobile), on September 3, 1967, due to an aircraft accident; husband of Mrs. Arlene Rose, 1706 Brockton, Santa Monica, Calif.

SAWYERS — In Vietnam, Captain Roger T. Sawyers, 1st Aviation Brigade, on October 2, 1967, due to hostile action; husband of Mrs. Jane C. Sawyers, 1312 Irvin Street, Carlsbad, N. Mex.

SCOTT — In Vietnam, Warrant Officer Robert L. Scott, 176th Aviation Company, on August 25, 1967, due to hostile action; son of Robert C. Scott, 1460 Mohican Drive, Pittsburgh, Pa.

STRENNEN — In Georgia, Major Theodore D. Strennen, 10th Aviation Group, Fort Benning, Ga., on September 5, 1967, due to a helicopter accident; husband of Mrs. Mary Lou Strennen, 2208 Berkeley Drive, Roswell, N. Mex.

STYBEL — In Vietnam, First Lieutenant Conrad A. Stybel, 1st Cavalry Division (Airmobile), on September 17, 1967, due to an aircraft accident; son of Mr. and Mrs. Joseph Stybel, 1015 West 8th Street, Plainfield, N.J.

THOMPSON — In Vietnam, Captain Robert A. Thompson, 1st Cavalry Division (Airmobile), on August 9, 1967, due to hostile action; husband of Mrs. Hilda H. Thompson, Box 117, Lincolnton, Ga.

WAINWRIGHT — In Vietnam, First Lieutenant David B. Wainwright, 44th Medical Brigade, on October 4, 1967, due to an aircraft accident; husband of Mrs. Sharon Wainwright, 6111 Perryton, Wichita, Kan.

WARREN — In Texas, Warrant Officer James G. Warren, 198th Infantry Brigade, Fort Hood, Texas, on September 2, 1967, due to an aircraft accident; husband of Mrs. Beekie S. Warren, 1707 Litchville Drive, Gadsden, Ala.

WENTZEL — In Vietnam, Warrant Officer William Wentzel, 1st Cavalry Division (Airmobile), on September 21, 1967, due to a helicopter accident; son of Mr. and Mrs. Eugene G. Wentzel, 1364 Bayshore Drive, Haslett, Mich.

WILDER — In Vietnam, Chief Warrant Officer Bennett G. Wilder, 1st Aviation Brigade, on September 29, 1967, due to an aircraft accident; husband of Mrs. Elizabeth Wilder, Shadow Lawn Trailer Park, 1022 West Hubbard, Mineral Wells, Tex.

WROBLESKI — In Virginia, Captain Dennis A. Wrobleski, U.S. Army Transportation School, Fort Eustis, Va., on October 10, 1967, due to an aircraft accident; husband of Mrs. Faye Wrobleski, Independence, Ohio.

CHANGES OF ADDRESS**PCS****PCS - GENERALS**

COWAN, Alvin E., BG
Hq., SHAPE Opns. Div.
APO New York 09055
PALMER, Bruce, Jr., LTG
Deputy CG, USA(Vietnam)
APO San Francisco 96375

COLONELS

BUCHAN, Earl K.
4705 Rayburn Drive
Camp Springs MD 20023
COGSWELL, David G.
5 Wynn Place
Ft Stewart GA 31313
FLEMING, E. Pearce, Jr.
6501 Blue Hill Lane
Alexandria VA 22307
HUGGINS, Lloyd G.
Headquarters
Ft Wolters TX 76067
SHEPHERD, Robert G.
13935 S.W. 139th Place
Beaverton OR 97005
SIBERT, William C.
2247 North Upton Street
Arlington VA 22207
TUGMAN, Robert F.
JOA Test Gp, STRICOM
McDill AFB FL 33608

LT COLONELS

BARKLEY, James R.
415 Braircliff Circle
Savannah GA 31406
BOYLE, Garrison J., III
6715 Doolittle Drive
Edwards AFB CA 93523
BRADLEY, Glenn W.
3105 Kingsley
Florissant MO 63033
BRAKE, John W.
28-3rd Infantry Road
Ft Leavenworth KS 66027
BRETZ, Robert D.
60-3rd Infantry Road
Ft Leavenworth KS 66027
BURNS, Sumner C.
1692 Sherwood Forest Dr.
Florissant MO 63033
CADMUS, George W.
HHC, 224th Avn. Bn. (RR)
APO San Francisco 96307
CALVERT, Charles L.
1135 Leyte, Cl. 42 (AFSC)
Norfolk VA 23511
CAMPBELL, James E., Jr.
123 Marcella Road
Hampton VA 23366

PCS - LTCS

CANEDY, Charles E.
Hq. 7th Sqdn, 1st Air Cav
Ft Knox KY 40121
CARR, Edwin O.
761 Las Colindas
San Rafael CA 94903
CASE, Onore E.
1911 Chelton Road
Colorado Sprgs CO 80909
COOK, Harold E.
33-3rd Infantry Road
Ft Leavenworth KS 66027
COTE, George R.
413 Patrick Street
Mineral Wells TX 76067
CRAIN, Cleatis M.
Hq. Eighth U.S. Army
APO San Francisco 96301
CREAMER, Edmund J., Jr.
10805 Tyrone Drive
Upper Marlboro MD 20870
DAVIS, Neece V.
5604 Broadmoor Street
Alexandria VA 22309
DENNIS, Harold
5079 Rumpole Road
Ft Sill OK 73503
DIXON, Willie F.
Hq. 11th Avn Gp, 1st CD
APO San Francisco 96490
FERRIS, Gordon F.
USA CDC-CD-6800
Ft Belvoir VA 22060
FRIED, George W.
177 Beechmont Drive
Newport News VA 23602
FUSNER, Bruce
P.O. Box 129
East Point GA 30044
GILLILAND, John O.
23 Ferguson Street
Ft Rucker AL 36360
GUION, James L.
2819-45th Street, N.W.
Washington, D.C. 20007
HAID, Donald J.
OACSPOR, Dept of Army
Washington, D.C. 20310
HAMMETT, John W.
492 Wheaton Road
Ft Sam Houston TX 78234
HARLAN, James M.
ACTIV
APO San Francisco 96384
HAUCK, Donald R.
202 Colmar Road
Ft Ord CA 93941
HAWK, Robert T.
Headquarters CONARC
Ft Monroe VA 23351

PCS - LTCS

HURD, Robert L.
98-3rd Infantry Road
Ft Leavenworth KS 66027
HUTCHINS, Charles F.
HHD, 13th Combat Avn Bn
APO San Francisco 96215
KENNEDY, John D.
100 Zuckerman Avenue
Ft Benning GA 31905
KIEL, Frank W.
ACSI-DFISS
Washington, D.C. 20310
KING, Edward H., Jr.
Fifth USA, DCSLOG, Maint
Ft Sheridan IL 60037
LECHNER, Roy J.
Hq. 15th Aviation Group
APO New York 09025
McGEE, Charles F.
Hq & Hq Co, School Bde
Ft Monmouth NJ 07703
MERRITT, Ralph W.
2774 Fergusson Circle
Ft Eustis VA 23604
MITCHELL, Erwin M.
2770 Fergusson Circle
Ft Eustis VA 23604
MOORE, Peter W.
72 Endl Avenue
Ft Rucker AL 36360
MORE, Berkeley D.
ACTIV
APO San Francisco 96384
MORRIS, Hubert
60 Hancock Avenue
Ft Leavenworth KS 66027
ODNEAL, Billy L.
31 Buckner Drive
Ft Leavenworth KS 66027
OGILVY, Hubert W.
1454-B 5th Avenue
Ft Knox KY 40121
PATTERSON, James H.
4437 Glenn Rose Street
Fairfax VA 22030
PHILLIPS, Merton H.
AC&S, G-4, USARV, Hq
APO San Francisco 96307
PIERCE, Samuel M.
7 Heintzelman Court
Ft Leavenworth KS 66027
PREISENDORFER, Edw P.
5353 Sage Avenue
Edwards CA 93523
PUGH, Hilton E.
620 Infantry Post Road
Ft Sam Houston TX 78234
RANKIN, Edward
6013 N.W. 84th Place
Oklahoma City OK 73132

PCS - LTCS

ROBERTS, John F.
419 Patrick Street
Mineral Wells TX 76067
RUSK, Richard A.
31 Johnson
Ft Rucker AL 36360
SMITH, Albert L.
20 Johnson Street
Ft Rucker AL 36360
SMITH, Alfred R.
Headquarters USARV
APO San Francisco 96307
STEELE, Clyde K.
P.O. Box 665
Killeen TX 76541
STEEN, Charles S.
AK4 Ana Street, Villa Rica
Bayamon PR 00619
STOVERINK, Robert I.
6646 Rose Street
Ft Hood TX 76544
THOMPSON, Bernard D.
12th Aviation Group
APO San Francisco 96491
THROWER, Richard N.
303 Miller Loop
Ft Benning GA 31905
TOURTELLOTT, Ray J.
1121 Leyte, AFSC
Norfolk VA 23511
TRAVER, Wallace H.
Box 362
Grand Canyon AZ 86023
WALKER, Ronald T.
TACRON 13, USN Amphib
Coronado CA 92155
WATSON, James R.
4050 Atlanta Highway
Montgomery AL 36109
WILKINS, Henry J.
601 Glenbrook Road
Savannah GA 31406
YUNKER, John L.
06 Division Road
Ft Rucker AL 36360

MAJORS

ADAMSKI, Richard G.
526 Loomis Avenue
Colorado Sprgs CO 80906
ADKINS, Donald V.
P.O. Box 175
Hinesville GA 31313
AGUANNO, Edwin M.
2538 Natta Boulevard
Baltimore NY 11710

ARMY AVIATION**PAGE 33**

PCS - MAJORS

ALLAN, Walter F.D.
1941 Ramora Avenue
Salt Lake City UT 84108

ANDERSON, John H.
Hq, 12th Combat Avn Gp
APO San Francisco 96266

ANDERSON, Richard K.
5426 Jaynes Street
Omaha NB 68104

BAUSLER, Donald R.
2011C Miami
Leavenworth KS 66048

BAYNARD, Richard A.
78-3rd Infantry Road
Ft Leavenworth KS 66027

BEASLEY, Horace B.
4608 Old Mill Road
Alexandria VA 22309

BENSON, Frederick S.
42 Canterbury Circle
Savannah GA 31406

BESSLER, Felix J.
USAAVNS 3A-3186
Ft Rucker AL 36360

BIZER, James E.
421st Medical Co. (AA)
APO New York 09046

BLISS, Donald E.
Hq, 101st Aviation Bn
Ft Campbell KY 42223

BOMAN, Jack D.
General Delivery
Denver CO 80201

BONNETT, William B.
619 Governor Stevens
Olympia WA 98501

BOWDOIN, Arthur C.
608th Trans Company (DS)
APO San Francisco 96377

BOYLE, Willard F.
Hq, USARV, Aviation Off
APO San Francisco 96375

BROPHY, Edward R.
57 North Belgian Road
Danvers MA 01923

BROWN, Archie J.
1054 Las Gallinas Avenue
San Rafael CA 94903

BROWN, Patty E.
14 Darlene Lane
Newport News VA 23602

BURRIS, Carshal A., Jr.
4402 Tallulah Drive
San Antonio TX 78218

CANFIELD, James D.
83 Virginia Street
Keyser WV 26726

CANTWELL, Franklin D.
25 Liggett
Ft Leavenworth KS 66027

CARSON, David L.
13 Bullard Avenue
Ft Leavenworth KS 66027

CLARK, Davis
112 Karen Lane
Lansing KS 66043

CLARK, Norman S.
13214 Spanish Moss Road
Savannah GA 31406

ARMY AVIATION
PAGE 34

PCS - MAJORS

COCHRAN, Bruce S.
2001 S.E. 21st Street
Mineral Wells TX 76067

COOPER, James F.
USAAVNS
Ft Rucker AL 36360

COOPER, Robert G.
46 Boyce Lane
Ft Rucker AL 36360

CROWLE, James L.
1804 Crestview Drive
Killeen TX 76541

CURTIN, Thomas R.
6708 McCahill Terrace
Laurel MD 20810

DAVIS, Marion L.
9309 Westview Drive, SW
Tacoma WA 98498

DESTEFANO, Joseph
8606 Falkstone Lane
Alexandria VA 22309

DOBSON, Dale E.
2123 E. Roger Peed Drive
Hampton VA 23363

DRESSLER, Stanley E.
6624 Mt. Wellington Drive
San Jose CA 95120

EBERWINE, James A.
4303 Bloomdale
San Antonio TX 78218

ELLIS, William R.
1208 Cliffwood Road
Hurst TX 76053

EVANS, Eulus E.
202 Valley Hills Drive
Enterprise AL 36330

FREEZE, Richard S.
271st Aviation Company
Ft Benning GA 31905

PROELICH, James W.
342 Saxson Avenue
Ahlens TX 79605

FUGITT, Billy W.
9201 Santa Fe Ln, Apt 201
Overland Park KS 66204

GEBHARDT, William A.
AFSC, Class 42
Norfolk VA 23511

GOODE, Franklyn C.
2700 Neilson Way, Apt 222
Santa Monica CA 90405

GREEN, Curtis D.
Route 1, 121 Pine Drive
Gulport MS 39501

GREENE, Gerald R.
Advisory Team #75
APO San Francisco 96359

GREENWOOD, Everett O.
USA IAGS, Box 85
APO New York 09817

GREYHOSKY, August
Det C, 8th S&T Battalion
APO New York 09185

GRIFFIN, Arthur R.
Castleberry, Route 8
Sanford NC 27330

GRUSHETSKY, Philip J.
3342 Ormond Road
Cleveland Hts OH 44118

HAHN, Jerry D.
HSC, 15th Med Bn, 1st CD
APO San Francisco 96490

PCS - MAJORS

HANNUM, Alden G.
165 Corinthia Drive
Newport News VA 23602

HANSON, Gerald H.
417 Patrick Street
Mineral Wells TX 76067

HARTWELL, Ira, Jr.
8 Baker Street
Ft Rucker AL 36360

HASWELL, Edward A.
9806 Titan
San Antonio TX 78217

HAZLEWOOD, Richard L.
Route 1, Box 162H
Lexington Park MD 20653

HENDERSON, Berry H.
56 Rose Loop
Ft Leavenworth KS 66027

HERBERT, Bentley J.
8601 Hillside Avenue
Omaha NB 68117

HERNANDEZ, Victor M.
6210-B Lamar Avenue
Killeen TX 76541

HOFFMAN, Glenn F.
240th Asst Helicopter Co
APO San Francisco 96370

HOGAN, Wayne C.
450-11 Kearney
Ft Leavenworth KS 66027

ILLER, Alfred J., Jr.
3567 Arlington
Riverside CA 92506

JACKSON, Thomas C.
4122 Mabuni Drive
San Antonio TX 78218

JENKINS, William M., Jr.
1171 Porter Road (AFSC)
Norfolk VA 23506

JOBE, Joe D.
1309-D Stonleigh Court
Leavenworth KS 66048

JOHNSTON, John A.
5602 E. Spring Street
Tucson AZ 85716

JONES, Robert A.
123 Maddox Street
Georgetown KY 40324

KEATON, Jack L.
17 Liggett Street
Ft Leavenworth KS 66027

KELLEY, Robert H., Jr.
128 Traynor Avenue
Savannah GA 31405

KEMP, Freddie L.
1147 Blak Avenue
Norfolk VA 23511

KESTER, William R.
Meadow Lane
Prospect CT 06712

KETZLER, Kenneth L.
USAQMS Box 3763
Ft Lee VA 23801

LEUPPERT, Fred W.
68 Third Infantry Road
Ft Leavenworth KS 66027

KLOSE, John A.G.
211 North Robin Road
Wichita KS 67212

KNIGHT, James L.
2799-B San Andres Court
Holloman AFB NM 88330

PCS - MAJORS

KNUTSON, Richard H.
Hq, IFFV, Aviation
APO San Francisco 96350

KOEHLER, Joseph R.
7851 Everett, #7
Kansas City KS 66112

LaGRASSA, Joseph E.
Box 1604, USALMC
Ft Lee VA 23801

LANGLOE, Arthur R.
1043 Fletwood Drive
San Jose CA 95120

LEINS, David V.
1422 Osage Street
Leavenworth KS 66048

LEUPPERT, Fred W.
68 Third Infantry Road
Ft Leavenworth KS 66027

LEWIS, Paul G.
RFD #4, Box 229
Franklin IN 46131

MAGNESS, James L.
1017 Cayer Dr., Apt 412
Glen Burnie MD 21061

MAGUIRE, John H.
Route 3, Box 131M
Mineral Wells TX 76067

MARTIN, Dale S.
3200 Britt N.E.
Albuquerque NM 87111

McDONALD, Malcolm J., Jr.
7020 Chris Avenue
Olympia WA 98501

McLENNAN, Stuart G., Jr.
420-6 Kearney Avenue
Ft Leavenworth KS 66027

McRILL, Billy I.
88 Bullard Loop
Ft Leavenworth KS 66027

MELLIN, James P.
Aviation Co, 3rd ACR
APO New York 09034

MELLISH, James R.
Phantom Aviation Bn
APO San Francisco 96296

MERRITT, Hubert D.
406 West Park
Weatherford TX 76086

MITCHELL, Sim C.
P.O. Box 661, Unit #1
New Cumberland PA 17070

MORGAN, Glenn E.
154th Aviation Company
Ft Sill OK 73503

MORRIS, Charles A.
2950-B Summer Place
Ft Eustis VA 23604

MOTES, Clyde L.
225 Magruder
Mineral Wells TX 76067

NAUMANN, Ralph E.
HHD, 11th Aviation Bn
APO San Francisco 96289

NORGARD, Donald R.
USAAVNS
Ft Rucker AL 36360

NUGENT, David
USAFHS
Ft Wolters TX 76067

OBERG, Robert E.
Stonleigh Cts, Apt 1329F
Leavenworth KS 66048

PCS - MAJORS

O'CONNOR, Henry J.
510 Windsor Road
Savannah GA 31406

ORAM, Charles J.
29 Irwin Street
Ft Rucker AL 36360

OUELLETTE, Roger B.
38 Avellino Drive
Ft Bragg NC 28307

PARKER, Ellis D.
34 Galt Lane
Ft Rucker AL 36360

PARRISH, Glenwood N.
6313 Thomas Drive
Springfield VA 22150

PERSONS, John E.
5023 Crusade Drive
San Antonio TX 78218

PITTS, Philip C.
HHC, 269th Cmbt Avn Bn
APO San Francisco 96353

POPE, John B.
CMR #2, Box 5096
Ft Rucker AL 36360

PROSSER, Eugene K.
117 Traynor Avenue
Savannah GA 31409

PUCKETT, Charles R.
RFD #3, Box 172A
Leavenworth KS 66048

PUTNAM, Carl M.
ACSC, Box 1815
Maxwell AFB AL 36112

QUINLAN, James A.
1105 Avalon
El Paso TX 79925

RIXON, M.D.
873 Del Ganado Road
San Rafael CA 94903

ROBESON, Paul B.
354 Weld Street
W. Roxbury MA 02132

ROGERS, James E.
273rd Aviation Company
Ft Sill OK 73503

ROLLINGER, Jack R.
420-1 Kearney Avenue
Ft Leavenworth KS 66027

SCHENKER, Frederick W.
Middletown Springs,
Vermont 05757

SCHLESSER, Donald R.
HHC, 11th Avn Gp, 1st CD
APO San Francisco 96490

SCHRAND, Gregory J.
180th Aviation Company
APO San Francisco 96316

SMITH, Duane N.
Route 2, Box 61
Pollett TX 79034

SMITH, Osbin E.
2832 Meadow Drive
Chesapeake VA 23703

SMITH, Raymond L.
163 Forest Glen Road
Woodbridge VA 22191

SOTHCOTT, Myron F.
1914-B Scott Circle
Ft Meade MD 20755

SPARKMAN, Floyd, Jr.
58 Red Cloud Road
Ft Rucker AL 36360

PCS - MAJORS

SPENCER, Charles A.
18 Ferguson Street
Ft Rucker AL 36360

STANKO, John J., Jr.
Army Avn Br, NG Bureau
Washington, D.C. 20310

STEDMAN, Thomas M.
12515 Bridlewood Drive
Savannah GA 31406

STENHEJEM, George N.
7116 NW Country Club Ln
Kansas City MO 64152

STEPHENSON, Charles A.
604 Orion Drive
Colorado Spgs CO 80906

STEWART, William C.
325 Paulette Drive
Newport News VA 23602

STIPE, John W.M., Jr.
E Co, 122nd Maint Bn
APO New York 09165

STONE, Gordon L.
20 Holman Street
Daleville AL 36322

STORY, Billy L.
7 Dickman Avenue
Ft Leavenworth KS 66027

STOUTAMIRE, David F.
1 Liggett Avenue
Ft Leavenworth KS 66027

TAYLOR, Allen B.
806 North Mallory
Hampton VA 23361

TAYLOR, William D.
1215 Breckinridge Drive
Jackson MS 39204

THIRING, Florian A.
340 Tudor Street
Ashland OR 97520

TINGLER, William N.
639 Stephenson Avenue
Savannah GA 31405

TRENT, William E.
103 Red Cloud Road
Ft Rucker AL 36360

TUSSEY, William J.
721 North 57th
Lincoln NB 68505

ULZHEIMER, Robert
57 Boyce Lane
Ft Rucker AL 36360

UNDERWOOD, Joe D.
339th Transportation Det
APO San Francisco 96289

VOVILLA, Harold K.
10 Donovan Street
Ft Rucker AL 36360

WAUGH, Lionel C.
10411 Cedrona S.W.
Tacoma WA 98498

WEAVER, John M.
USAAVNS
Ft Rucker AL 36360

WELCH, Gene B.
15 Ridgecrest Drive
Chickasha OK 73018

WELCH, Larry L.
2120 Randall Avenue
Duncan OK 73533

WELSCH, Hanno F., Jr.
2508 North 7th Street
Lawton OK 73501

PCS - MAJORS

WETHERBIE, Robert F.
c/o Poncar, Rte 1, Box 55
Southington OH 44470

WHITE, Leroy
417 Cloudmont Drive
San Antonio TX 78239

WHITE, Richard R.
Box 58, USAAVNS, ELM
Ft Stewart GA 31313

WILKS, Clarence D.
6510 S.W. Raab Road
Portland OR 97221

WILSON, Donald E.
16th Aviation Battalion
APO New York 09046

WILSON, Wesley C.
1320 Verde Drive
Colorado Spgs CO 80910

WRIGHT, Theodore K.
463 Town Creek Drive
Lexington Park MD 20653

YOUNG, Raymond H.
Co C, 229th Avn Bn, 1st CD
APO San Francisco 96490

CAPTAINS

ADAMS, John D.
21st Trans Co (ADS)
APO San Francisco 96353

ALLEN, William F.
USAAVNS
Ft Rucker AL 36360

BISHOP, Paul E.
307 Highland Drive
Cullman AL 35055

BOYD, Harold L.
3223 Maryville Rd, Apt 2
Granite City IL 62040

BUDIG, Sherwood R.
532 Aurelia Lynn Drive
Clarksville TN 37040

CASE, James W.
1113 Ash Avenue
Duncan OK 73533

CASTRO, Tomas
853 Bride Avenue
Ft Worth TX 76108

CHESTER, Thomas M.
306 Jordan Lane
Swainsboro GA 30401

CHITREN, Vincent R.
206 Main Street
Sayreville NJ 08872

CLARK, Scott A.
104 Stevenson Avenue
Savannah GA 31405

COX, Billy W.
308 Second Avenue
Murfreesboro TN 37130

CRESSALL, William F.
118 West Harding Street
Greenwood MS 38930

DECOTEAU, Glynn T.
7813 Valley View
Houston TX 77036

DORSEY, James J.
2028 South 65th Street
Philadelphia PA 19142

DUNAWAY, Fred C.
24 Galt Lane
Ft Rucker AL 36360

DUPLESSIS, Troy L., Jr.
HHB, 24th Inf Div (Arty)
APO New York 09029

FARISH, Castle H.
1217 N.W. 6th Avenue
Mineral Wells TX 76067

FISHBURN, Ronald M.
1133 Blue Bell
Tempe AZ 85281

FREDRICK, Gilbert H., Jr.
Headquarters JUSMMAT
APO New York 09254

GARRETT, Hoke S., Jr.
1705-11th Street, S.E.
Mineral Wells TX 76067

GEHLER, Kenneth A.
2306 Carlisle
Champaign IL 61820

GENTLE, Howard B., Jr.
7200 East 12th Street
Kansas City MO 64134

GOOD, James G.
708 Dyches Drive
Savannah GA 31406

GRAY, Ronald E.
204 East School
Centerville IN 47330

GRIER, Edward G., Jr.
4751 Sylvan Drive
Savannah GA 31406

HARPER, James W.
816 West Block
El Dorado AR 71730

HIGGINBOTHAM, James L.
142 Lehardy Drive
Savannah GA 31405

HOSEY, John D.
OSB, Cl 68-3, USAAMS
Ft Sill OK 73503

HOSLEY, Morrison J., Jr.
318 Millwood Lane
San Antonio TX 78216

HUSEK, Donald G.
4030 Park
Westmont IL 60559

JEWELL, James S.
340 Park Avenue
Aberdeen SD 57401

JONES, Warren B.
P.O. Box 402
Manning SC 29102

KELLEY, Robert D.
69 Harris Drive
Ft Rucker AL 36360

KENNEDY, John P.
3903 Fairfax Square
Fairfax VA 22030

KNUDTZON, Thomas A.
c/o Hayes, Rte 7, Box 714
Olympia WA 98501

KRAHN, Wayne E.
17 Emirau, Cl. 42 (AFSC)
Norfolk VA 23511

KRULL, Arthur A.
HHC, 55th Aviation Bn
Ft Hood TX 76544

LACY, Joseph A.
USAREUR, S&S Det
APO New York 09178



1960



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PCS - CAPTAINS

LETCHEWORTH, Robert
520-D South Moore Loop
West Point NY 10996

MACLEOD, James F., Jr.
507 S.E. 25th Avenue
Mineral Wells TX 76067

MALLARDI, Robert N.
73rd Aviation Company
APO San Francisco 96291

MANGUM, Robert A.
US Naval Test Pilot Sch
Patuxent River MD 20670

MARSHALL, Evan D.
1009-B Kessler Court
Ft Benning GA 31905

MAYER, Henry A.
4118 Mabund
San Antonio TX 78218

MCBRIDE, Maurice B.
USA PSG
Ft Holabird MD 21219

McKINNEY, Boyce C.
Box 433
Lincolnton GA 30817

MERRITT, Donald E.S.
2431 Buena Vista Circle
Carlsbad CA 92008

MILLS, James J.
1258 Vocke Road
Lavale MD 21502

MORRIS, James F.
42nd Transportation Co
APO New York 09165

MUSCHEK, Robert W.
8020 Broadway, #9
Tucson AZ 85710

MYERS, James R.
1435 West 10th Street
Ashabula OH 44004

NEAL, Paul G.
4528 Beta Avenue
Lawton OK 73501

OWENS, Bobby L.
The Stu Det USAAVNS
Ft Rucker AL 36360

PAULSEN, David D.
410 South 19th Street
Lincoln NB 68510

PETERSON, Jon M.
1220 Norbee Drive
Wilmington DE 19803

RICHARDSON, Thomas W.
321 Aurora Street
Hudson OH 44236

RIELAGE, Martin J.
231 Godfrey
Mineral Wells TX 76067

ROBINSON, John D.
5661-A Corley Street
Ft Knox KY 40121

ROBINSON, Raymond S.
CMR #2
Ft Rucker AL 36360

SCHOFIELD, Dale W.
Avn Co, 3rd Armd Cav
APO New York 09034

SEARCY, Douglas P.
2087 Georgian Way, Apt B
Lexington KY 40504

PCS - CAPTAINS

SHAW, Frank G.
Hq, 10th Aviation Group
Ft Benning GA 31905

SIEGLING, Wm. A., Jr.
16 Kyle Way
Ft Rucker AL 36360

STUSSI, Dennis A.
2805 South Prairie
Sioux Falls SD 57105

THOMAS, Bobby F.
5 South Lancaster Road
Savannah GA 31404

THURMOND, George H.
Jefferson River Road
Athens GA 30601

TOMLIN, James E.
53 Harris
Ft Rucker AL 36360

TROMBLEY, Thomas H.
44 Olson Lane
Ft Rucker AL 36360

TUCKER, Wendell R.
HHC, 227th AHB, 1st CD
APO San Francisco 96490

TUCKER, Wendell R.
603 Kimberly Oaks Drive
Tarpon Springs FL 33589

VICKERS, Anthony M.
8001 Springflower Road
Columbia SC 29204

WARREN, John O., Sr.
P.O. Box 366
Daleville AL 36322

WEST, Carl L.
c/o Orvil Hendrix, Rte 1
Dowelltown TN 37059

WING, Edward A., Jr.
156th Aviation Co (RH)
APO San Francisco 96215

YORK, Val D.
4621 Lindy Avenue
Lawton OK 73501

LIEUTENANTS

ALLEN, Norman R.
15 Lake Gayle Trl Ct, Rt 2
Ozark AL 36360

ALTSCHULER, Stanley J.
P.O. Box 1250
Dallas TX 75221

BECK, Jerry L.
Off Stu Co, Class 67-16
Ft Rucker AL 36360

BENBOW, Winston B.
Off Stu Co, Class 67-20
Ft Rucker AL 36360

BOYD, Willie H.
Off Stu Co, Class 67-10
Ft Rucker AL 36360

BRESNIK, Albert R.
1760 Wellesley Drive
Santa Monica CA 90405

BRIGGS, Duane A.
P.O. Box 114
Swea City IA 50590

BRITAIN, William H., Jr.
CMR #2, Box 7725
Ft Rucker AL 36360

BROCK, Norris G.
1141 E 39 St, Bld 3, Apt 103
Davenport IA 52807

PCS - LIEUTENANTS

BUCKINGHAM, Robert L.
HHB, 4th Infantry Div Arty
APO San Francisco 96262

CANON, Charles M., III
CMR #2, Box 5882
Ft Rucker AL 36360

COSTAS, Enrique
CMR #2, Class 67-14
Ft Rucker AL 36360

DANIELS, Lee E., Jr.
CMR #2
Ft Rucker AL 36360

DAVENPORT, John D.
811 Hydrangea
Ft Myers FL 33903

DAVIDSON, Norton A., III
CMR #2
Ft Rucker AL 36360

DEVEREAUX, Walter J.
3825 Grand Teton Court
Irving TX 75060

DORSETT, Michael L.
Off Stu Co, USAINTS
Ft Holabird MD 21219

FRESTONE, Wm. H., Jr.
187th Assault Hel Co
APO San Francisco 96216

FRIDAY, William P.
CMR #2, Box 5802
Ft Rucker AL 36360

GENTER, Billy V.
242nd Aviation Company
APO San Francisco 96227

GRABOWSKI, Edgar P.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

HAMLIN, Richie L.
OSC USAAVNS Element
Hunter AAF GA 31409

HAY, Lester L., Jr.
CMR #2
Ft Rucker AL 36360

HENNESSY, James B.
Co A, 9 Avn Bn, 9 Inf Div
APO San Francisco 96370

HENRY, Mytes D.
R.D. #1
Stuebenville OH 43952

HIBBAIRD, Kenneth D.
Tanglewood Est, Lt 8, 7-V
Newton AL 36352

HICKS, Harold M.
1831 Dartmouth
Alexandria VA 71301

HILL, Karl B., Jr.
7442 Poye Avenue
La Jolla CA 92307

HOPPE, James W.
852 Glendale Lane
Nashville TN 37204

HUDSON, Stanley D.
CMR #2
Ft Rucker AL 36360

HUFF, Ralph R.
CMR #2
Ft Rucker AL 36360

JOHNSON, Edward F.
CMR #2
Ft Rucker AL 36360

KAY, Forest E., Jr.
7th Sqdn, 17th Cavalry
Ft Knox KY 40121

PCS - LIEUTENANTS

KENNEDY, Steve R.
2705 Whitewood Street
Dallas TX 75233

KOENIG, Richard M.
Daleville Inn, Apt. 611
Daleville AL 36322

KONKLE, Thomas E.
16 Andrews Drive
Daleville AL 36322

KRAFT, Bryce A.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

LACILLA, David D.
6 Woodland Heights
W. Boylston MA 01505

LANGHORNE, Webster L.
Class 68-2
Ft Rucker AL 36360

LEVINGS, Gary W.
CMR #2
Ft Rucker AL 36360

LINSTER, Frank J.
CMR #2
Ft Rucker AL 36360

LOWELL, Richard A.
CMR #2
Ft Rucker AL 36360

LYONS, Johnathan E.
Route 2, Box 73
Newton AL 36352

MOMCILOVICH, Michael
622 Farrell Parkway
Nashville TN 37220

MONG, James J.
CMR #2
Ft Rucker AL 36360

MOORE, James E.
CMR #2
Ft Rucker AL 36360

MORRISON, William H.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

OWSLY, Robert T.
Speigners Grn Acres Pk-8
Daleville AL 36322

PARKER, John S.
CMR #2
Ft Rucker AL 36360

PEDA, Robert C.
CMR #2
Ft Rucker AL 36360

PIEPER, Wendell J.
CMR #2
Ft Rucker AL 36360

PIERCE, Harold D.
CMR #2
Ft Rucker AL 36360

QUINN, Wm. F., III
6 Sanborn Road
Hingham MA 02043

ROUSH, Gary B.
B&G Trl Ct, Rt 2, Lot 13
Ozark AL 36360

SEMON, Barry H.
HHC, FWD, 1st CD (AM)
APO San Francisco 96490

SHOULTS, William E.
CMR #2
Ft Rucker AL 36360

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CMR #2
Ft Rucker AL 36360

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PCS - LIEUTENANTS

SKINNER, Gordon A.
CMR #2
Ft Rucker AL 36360

SOUVENIR, Stanley J.
7307 N.E. Mallory
Portland OR 97211

SPRINGTHORPE, Robert A
Tri Village, Bx 100C, Rt 3
Enterprise AL 36330

STACY, John M.
OSC, Box 5787, USAAVNS
Ft Rucker AL 36360

STURMAN, Doyle G.
Box 692
Gruver TX 79040

WEHR, John R.
CMR #2
Ft Rucker AL 36360

WHITE, Jerry E.
648-41st Street, N.E.
Cedar Rapids IA 52402

WILDE, Severin L.
HHC, 55th Aviation Bn
Ft Hood TX 76544

WILLIAMS, Gerald L.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

WILLOUGHBY, James F.
P.O. Box 563
Harvey LA 70055

WILSON, Pat M., III
Route 2, Box 24
Leon WV 26123

WISDOM, Jerry L.
Btry B, 2nd Bn, 20th Arty
APO San Francisco 96490

WONDER, John L.
CMR #2
Ft Rucker AL 36360

WOOD, Donald N.
40 Garfield Drive
Newport News VA 23602

WRIGHT, Frank E., III
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

CW2 - CW4

BARTLEY, James A.
6105 Dearborn
Lawton OK 73501

EAKINS, James R.
8418 Winona Avenue, SW
Tacoma WA 98498

ERVIN, James P., Jr.
138 Red Cloud Road
Ft Rucker AL 36360

EUBANKS, Howard, Jr.
5102 Thomason Avenue
Columbus GA 31904

FRANKLIN, James W., Jr.
25 Fowler Lane
Ft Rucker AL 36360

GERRETSON, James L.
USAAVNS, Support ELM
Ft Stewart GA 31313

GRABSKI, Edward J.
2119 Dyches, Paradise Pk
Savannah GA 31406

ARMY AVIATION

PAGE 40

PCS - CWOS

GROFF, Gerald A.
100 Seaside Avenue
Milford CT 06460

HENNARD, Jeffrey B.
HHC, 55th Engr Group
APO New York 09184

JOHNS, Darrel R.
P.O. Box 565
Ft Rucker AL 36360

Kelly, George E.
12506 Kingwood Drive
Savannah GA 31406

LAWRENCE, Clell H.
2604 North 43rd
Lawton OK 73501

LEONETTI, Gerald R.
152nd Trans Det (DS)
APO New York 09046

LIVINGSTON, Donald J.
196th Aviation Company
APO San Francisco 96238

MATNEY, Carl B., Jr.
Avn Co, 2nd Armd Cav
APO New York 09696

McCULLOCH, Horace P.
19 Fryar Street
Ft Rucker AL 36360

MEYER, Frederick T.
4th Aviation Company
APO New York 09046

MYERS, Maurice G.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

NICHOLSON, Thomas W.
17 Azalea Drive
Newport News VA 23602

REDSTONE, Richard D.
149 Magruder
Mineral Wells TX 76067

RUEHLING, Edward H.
5329 N.W. Glenn Avenue
Lawton OK 73501

RUGG, William A.
18th Aviation Company
APO San Francisco 96238

SEYMOUR, Donald S.
1006 Chevy Chase Lane
Indianapolis IN 46280

WALTON, Bill C.
313 North Montgomery
Clarksville AR 72830

WELLMAN, Hubert A.
406 Mendowliake Drive
Ozark AL 36360

WOMACK, Clem H.
Route 1, Box 198
El Dorado AR 71730

WOS

ABBOTT, Terence S.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

ANGUS, Arthur L.
1108 E Seneca Ave., Apt. 6
Des Moines IA 50316

ASSELIN, William S.
57th Medical Det. (HA)
APO San Francisco 96491

BASKETT, David E.
189th Assault Hel Co
APO San Francisco 96318

PCS - WOS

BAUMANN, Barry N.
Co A, 1 Avn Bn, 1 Inf Div
APO San Francisco 96345

BIRCH, Christopher E.M.
Box 632
Ft Rucker AL 36360

BISHOP, Wesley W., Jr.
1st Infantry Division
APO San Francisco 96345

BITELY, Charles E.
2 Bn, 20 Arty, 1 CD (Air)
APO San Francisco 96490

BIXBY, William E.
11 GenSpt Co, 1 CD-AMBL
APO San Francisco 96490

BLANKENSHIP, Ernest W.
Route 1, Box 124
Sluria AL 35144

BOND, Jack W.
1125 East 11th
Albany OR 97321

BRADFORD, Leon A.
688 West 4th South
Payson UT 84651

BRAITHWAITE, Michael R
11th ACR, Air Cav Troop
APO San Francisco 96257

BRANDSEY, Thomas H.
P.O. Box 1343
Ft Eustis VA 23604

BREISCH, James E.
B Trp, 7 Sqn, 1st Air Cav
Ft Knox KY 40121

CANTLEY, Michael L.
1620 S.W. 30th
Oklahoma City OK 73119

CARPENTER, Bobby C.
Route 2
Seneca SC 29678

CASTREN, Floyd A.
7446 Oakley Street, N.E.
Minneapolis MN 55432

CLEMMER, David P.
6293 Spring Hill Dr., #102
Greenbelt MD 20770

COLLINS, Steven E.
1148 Steffen Street
Glendora CA 91740

COMSTOCK, Marc G.
HHC, 199th Inf Bde (Avn)
APO San Francisco 96279

CONNORS, Harry L., Jr.
71st Assault Hel Co
APO San Francisco 96374

COPE, Gary P.
Co A, 9 Avn Bn, 9 Inf Div
APO San Francisco 96370

COVRY, Michael T.
7970 Belding Road
Rockford MI 49341

COX, Jeffrey L.
A Trp, 7th Sqn, 1st Cav
Ft Knox KY 40121

DAVENPORT, Claybourne
Fletchers Tri Pk, Route 2
Leesville LA 71446

DAVIS, Tom L., III
Avn Plt, HHT, 11th ACR
APO San Francisco 96257

DIXON, Douglas L.
Co A, 25 Avn Bn, 25 Inf Div
APO San Francisco 96225

PCS - WOS

DOWNES, Steven R.
248-79th Avenue, N.E.
St. Petersburg FL 33702

EASON, E.A., III
HHC, 3rd Bde, 1st Cav Div
APO San Francisco 96490

EATLEY, Gordon F.
E Btry, 82nd Arty, 1st CD
APO San Francisco 96490

ELLIOTT, Thomas R., Jr.
6142 Willers Way
Houston TX 77027

ENYEART, Robert D.
322 Grant Street
Sidney OH 45365

EUBANKS, Michael W.
3206 Fairview
Dallas TX 75223

EVANS, Donald W.
2570 Hawthorne Drive, NE
Atlanta GA 30329

EVANS, James R.
282nd Aviation Co (AML)
APO San Francisco 96337

FICHTER, Thomas A.
21924 So. Harvard Blvd.
Torrance CA 90501

FIELDING, Robert J.
20 Parkway Drive
Baldwinsville NY 13027

FLANAGIN, Stephen F.
334th Armd Helicopter Co
APO San Francisco 96227

FOOTER, Joseph A.
A Co, 25 Avn Bn 25 Inf Div
APO San Francisco 96225

FRANCONI, George F.
Route 1, Box 606
Chester VA 23831

FRANKLAND, Wayne A.
Co C, 227 AHB, 1 CD (Air)
APO San Francisco 96490

FRAZIER, Peter W.
Cmd Avn Sec, 4th AD
APO New York 09696

FRITZ, Albert R.
700 South 23rd, Apt. 5
Ft Smith AR 72901

FUNK, Ellsworth D.
571st Hel Amb Det
Ft Geo G Meade MD 20755

GARANZUAY, Antonio
201 Delgado Street
San Antonio TX 78207

GLIDEWELL, John R.
71st Aslt Helicopter Co
APO San Francisco 96374

GOLDSBERRY, Jay G.
214th Avn Bn, 191st ASHC
APO San Francisco 96370

GREENLEAF, Gary G.
5594 Greenwich Street
Worthington OH 43085

GUNN, Deryl K.
111 West State Road
Malta Bend MO 65339

HAFNER, Stephen F.
136 Magruder Street
Mineral Wells TX 76067

HARRINGTON, Robert W.
671-50th Street
Brooklyn NY 11220

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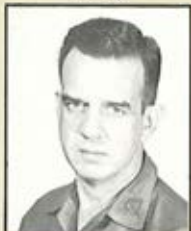
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Bn XO



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Bn S-3



MAJ G. F. WOOD

Bn S-4



MAJ J. W. PATTON

CO HHC



MAJ J. R. HUGHES

Bn Aero/Eng



MAJ G. W. MUNROE SR

CO Co A



CPT L. L. SHARE

PCS - WOS

HARRIS, Dennis P.
Route 2, Box 508
Granite Falls NC 28630

HARRISON, Alan L.
459 Isabella Street
Lebanon OH 97355

HAUB, Kenneth E.
205 Apache Street
Fayetteville NC 28303

HAYNES, Hendrick J.
2nd Pltn, B Co, 2nd Tng Bdt
Ft McClellan AL 36201

HEIKKINEN, Laurence K.
5270 Eton Drive
Columbus GA 31907

HENSON, Jimmie H.
161st Aviation Company
APO San Francisco 96238

HILL, David F.
1235 Ross Avenue
Cincinnati OH 45205

HILL, Paul J.
316 Lancaster Pike
Circleville OH 43113

HOFMANN, Wayne C.
HHC, 937th Engineer Gp
APO San Francisco 96318

HOLER, Thomas R.
P.O. 1033, New Garden Sta
Ft Knox KY 40121

HOLLAND, Craig R.
129th Assault Hel Co
APO San Francisco 96377

INMAN, David R.
110 West Main
Parsons TN 38363

JACKSON, David T.
336th Assault Hel Co
APO San Francisco 96296

JACKSON, Warren G.
2603 Rohlwing Rd, Apt 1-B
Palatine IL 60067

JACOBSON, Robert G.
A Btry, 2 Bn, 20 Arty, 1 CD
APO San Francisco 96490

JARRELL, William B.
227 Avn Bn, 1 CD (Air)
APO San Francisco 96490

KENNEDY, George H., III
4801 Mt. Read Boulevard
Rochester NY 14616

KIME, David F.
Co C, 229 ASHB, 1 CD (AM)
APO San Francisco 96490

LACASSE, William J.
2039 McGraw Avenue
New York NY 10462

LAREAU, Kenneth L.
Co A, 229 ASHB, 1 CD (AM)
APO San Francisco 96490

LAW, Harold E.
12907 South Park
Tacoma WA 98444

LAWRENCE, Miles E.
1961 Leita Street
Castro Valley CA 94546

LEASE, Darrell L.
50th Medical Det (HA)
Ft Polk LA 71459

PCS - WOS

LEININGER, John A.
45th Medical Co (AA)
APO San Francisco 96491

LEOPOLD, Mark E., Jr.
71st Assault Hel Co
APO San Francisco 96374

LEVERTON, Donnie R.
101st AG Company-Admin
Ft Campbell KY 42223

LYLE, Richard P.
159th Medical Det (HA)
Ft Riley KS 66442

LYTLE, Thomas A.
Hiway Host, Apartment 66
Ozark AL 36360

MALTAIS, Richard T.
128th Aslt Hel Co
APO San Francisco 96289

MANKE, Frederic P., Jr.
393 N. LaCumbre Road
Santa Barbara CA 93105

MARSH, Leroy B., III
833 N. Humboldt, Apt. 402
San Mateo CA 94401

MARTIN, Tommy H.
P.O. Box 166
Heber Springs AR 72543

MARTINEZ, Arnulfo, Jr.
P.O. Box 28
Alamo TX 78516

MEREDITH, James H.
R.R. #3, Box 286G
Angola IN 46703

MITCHELL, Monroe J.
18th Aviation Co, 1st Pltn
APO San Francisco 96337

MOLINE, William P.
118th Assault Hel Co
APO San Francisco 96227

MONTGOMERY, James O.
410 Madison Street
Port St. Joe FL 32456

MOORE, Kenneth D.
Co A, 9 Avn Bn, 9 Inf Div
APO San Francisco 96370

MORGAN, James C.
106th Transportation Co
Ft Benning GA 31905

MUENDEL, Edmund F.
156th Aviation Co (RR)
APO San Francisco 96215

MURKLAND, Peter H.
2038 North 24th Street
Lawton OK 73503

NELSON, Harold R.
547 Moreland Road
Bethayres PA 19006

NESTER, Marvin E.
123 Jenkins Drive
Savannah GA 31405

NEWBOLD, John Robin
2/20th Arty (ARA) 1st CD
APO San Francisco 96490

OGLE, William C.
319 E. 2nd Street, Box 357
Ainsworth NB 69210

OGLESBY, Richard J., IV
Vandaveer Farms
Morrisville IL 62546

OLSON, David L.
515 W. Avenue A, Apt. 13
Copperas Cove TX 76522

PCS - WOS

PARLIN, Theron A.
119D-4th Avenue
Chula Vista CA 92010

PAUL, Harry L.
144th Aviation Co (RR)
APO San Francisco 96240

PAYNE, Max D.
301 North 6th, Box 325
Nolanville TX 76559

PEARCY, Thomas Love
7724-B Major Avenue
Norfolk VA 23505

PENNYPACKER, John E.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

PETERSON, Larry R.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

PETROVICH, Michael G.
180 Clover Hill Avenue
Bridgeport CT 06606

PIERCE, Leroy
Route 2, Box 198, Lot 5
Daleville AL 36322

PINSON, Lyle S.
310 Cottenwood Road
Dothan AL 36301

PLATZ, Adelbert L.
118th Assault Hel Co
APO San Francisco 96227

PRISCANDARO, Dennis M.
HHC, 196 Inf Bde, Avn Sec
APO San Francisco 96256

PURCELL, Thomas D.
5433-D Van Voorhis
Ft Knox KY 40121

RAFTER, Ronald R.
C Trp, 1/9, 1st Cav Div
APO San Francisco 96490

RAIMI, Morton D.
68th Assault Hel Co
APO San Francisco 96227

RANDOLPH, John J.
191st Assault Hel Co
APO San Francisco 96370

RAWLS, Jester W.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

REBHOLZ, Melvin C.
104 Julep Lane
Cincinnati OH 45218

RICHARDS, Gary F.
802B Pecan Circle
Killeen TX 76541

ROGERS, Dennis R.
12th Aviation Group
APO San Francisco 96289

RURSTOW, Gregory P.
176th Aviation Co (AMBL)
APO San Francisco 96347

RYAN, Peter M.
1226 Crescent Drive
Modesto CA 95350

SAND, David A.
48th AHC
APO San Francisco 96316

SANDROCK, Donald L.
12th Aviation Group
APO San Francisco 96289

SCHULTZ, Sheldon D.
Route 1, Box 516, Lot 14
Daleville AL 36322

PCS - WOS

SHAW, John K.
Route 1, Box 212
Oklahoma City OK 73111

SIMMONS, Gene A.
1809 Augusta Drive
Champaign IL 61820

SKAVDAHL, William T.
235th Avn Co, 10th Avn Gp
Ft Benning GA 31905

SMETANA, Hans R.
235th Avn Co, 10th Avn Gp
Ft Benning GA 31905

SMITH, Donald L.
Route 2, Box 258
Pamlico SC 29583

SMITH, Raymond A.
HHC, 1st Mi Battalion
APO San Francisco 96307

SNOW, Richard M., Jr.
4010 E Tappan Dr, Apt 345
Colorado Springs CO 80909

SOLIS, Francis W.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

SONIER, Paul E.
57th Assault Hel Co
APO San Francisco 96499

STANDLEY, John M.
144th Aviation Co (RRV)
APO San Francisco 96240

STIPNIEKS, Maris
505 McCabe Avenue
Wilmington DE 19802

STRAZZINI, Edward M.
68th Assault Hel Co
APO San Francisco 96227

STRONG, Harry D.
9th Aviation Bn, 9th Inf Div
APO San Francisco 96289

SVELA, John R.
1900 S.W. Winthrop Street
Portland OR 97225

TEMPLETON, Harold R.
14 Susan, Okdale East, Rt 1
Daleville AL 36322

TOTH, John E.
57 Aslt Hel Co, 1 Avn Bde
APO San Francisco 96499

TURNER, Keith W.
9224 North Eldorado
Stockton CA 95204

WALLICK, Glenn A.
R.F.D.
Roca ND 68430

WALSH, John A., Jr.
AMOC 3-68 OSC USATSCH
Ft Eustis VA 23604

WALTHALL, Kenneth L.
2407 Bond Avenue
Columbus GA 31903

WATKINS, Michael C.
704 Waco Road, Apt. 23
Belton TX 76513

WATSON, Wayne M.
48th Assault Hel Co
APO San Francisco 96316

WEGLARE, Joseph J., Jr.
57th Aviation Company
APO San Francisco 96499

WENTZEL, William C.
1364 Bayshore Drive
Haslett MI 48840

PCS - WOS

WHITELEY, William R.
530 Mill Creek Road
Radcliff KY 40160

WHITTINGTON, Robert L.
4205 Alexandria Pl, Apt 3
Los Angeles CA 90004

WILSHER, Joseph M.
118th Assault Hel Co
APO San Francisco 96227

WILSON, Donald L.
HHC, 1 Bde, 101 Abn Div
APO San Francisco 96347

WINSTANLEY, William R.
187th Assault Hel Co
APO San Francisco 96216

WITKOWSKI, David E.
161st Aviation Company
APO San Francisco 96374

WOOLSEY, George L.
380 Dover
Pontiac MI 48054

WORKMAN, James F.
Route 5, Box 269
Nacogdoches TX 75961

ZIEGLER, Roy E., II
282nd Aviation Company
APO San Francisco 96337

ZULLO, Frank N.
127 Kenmore Avenue
Hartford, Conn.

PCS - ENLISTED

EVANS, Robert H., SGT
2413 A Avenue
Lawton OK 73501

JACKSON, Richard L., SFC
8407 Milwaukee Street
Ft Lewis WA 98433

KILBANE, Patrick D., SSG
904 Turner Street
Ciebarne TX 76031

NYE, Kenneth H., SP5
Sch Spt Co, USA Aviation
Ft Rucker AL 36360

SEIFERT, John D., SP6
Route 2
Ozark AL 36360

TILLIS, Marshall C., SSG
Box 11, ARSEC, MAAG
APO San Francisco 96263

TURNER, Leroy M., 1SG
18 Briar Hill Court
Ozark AL 36360

ASSOCIATES

ALEXANDER, Mr. Jerry L.
1818 Merriman Avenue
Corpus Christi TX 78412

BECKER, Mr. Charles Z.
Centinela&Teale, Hughes
Culver City CA 90230

PCS - ASSOCIATES

HRONICK, Mr. Anthony L.
1139 Olive St., Room 408
St Louis MO 63101

KISHI, Mr. James S.
P.O. Box 8460
Austin TX 78712

MOSHER, Mrs. Robert L.
2825 S.W. 5th Court
Ft Lauderdale FL 33312

SAMANIEGO, Mrs. Roberto
814 Northwest 8th Avenue
Mineral Wells TX 76067

SCHWARZ, Mr. Harvey F.
Decca-1030 15th NW, #650
Washington, D.C. 20005

SHAW, Mr. G. Norris
1412 Moss Rose Circle
Irving TX 75060

WILWERDING, Mr. J.W.
215 S. Mountain Trail Ave.
Sierra Madre CA 91024

RETIRED

ALEXANDER, Rowan, COL
2741 Angell Avenue
San Diego CA 92122

BLACKBURN, Bobby, MAJ
2121 Belmont Drive
Clarksville TN 37040

PCS - RETIRED

CHAMBERLAIN, A., LTC
3950 W. Ball Road
Anahim CA 92804

CLARK, Max A., LTC
104 Hunting Hills Lane
Media PA 19063

EASTERBROOK, E.F., MG
TBR 10, 2 NAGAT, CHO
Chiyda Tokyo Japan

ERICKSON, Floyd C., LTC
General Delivery
Mineral Wells TX 76067

LABER, Orville J., MAJ
1105 Rutledge Way
Stockton CA 95207

LENIC, Sigmund C., LTC
601 Brechin Drive
Winter Park FL 32789

MILLER, Oral D., LTC
1949 Green Road, Apt. 503
Cleveland OH 44121

SPAUDLING, G.E., MAJ
P.O. Box 786
Las Vegas NV 89101

VAN ORNE, Ronald, COL
4512 Raintree Court
Ft Worth TX 76103

WELLS, James F., COL
Box 214
Aromas CA 95004



**ARMY AVIATION ASSOCIATION
APPLICATION FOR MEMBERSHIP**

I wish to become a member of the Army Aviation Association of America (AAAA). I have enclosed my Membership Dues and the first-year Initiation Fee. Please start my ARMY AVIATION MAGAZINE subscription and send my membership credentials.

- My past or current duties affiliate me with the field of U.S. Army aviation or its allied pursuits.
- My past and current duties have not affiliated me with the field of U.S. Army aviation but I wish to further the aims and purposes of the AAAA.

(Please Print) Rank/Grade _____ Name _____

ADDRESS _____
(Post Box Number, Residence or Quarters Address is Desired)

CITY _____ STATE _____

SIGNATURE _____
Failure to sign above invalidates this application.

**ANNUAL AAAA DUES . . . \$6.00
INITIATION FEE . . . \$3.00**

The initiation fee applies to the applicant's first year membership only, and covers the one-time provision of a membership decal and a personal lapel insignia. The application form and a check for \$9.00 made payable to "AAAA" should be returned to: AAAA, 1 Crestwood Road, Westport, Connecticut 06882.

CATEGORY OF MEMBERSHIP

- Active U.S. Army establishment
- U.S. Army National Guard
- U.S. Army Reserve component
- Other. Describe below.

LETTER TO AN AVIATOR

(Continued from Page 9)

Division (Airmobile) in the 1965 battles at Plei Mei and Pleiku, and later at Ia Drang.

What is airmobility? You know well that you play a major part in airmobility because you fly the machines, the helicopters, which have been integrated into every aspect of combat power of the Army team. These facets of combat power are primarily movement, fire power, command and control, reconnaissance and intelligence, and logistics. You studied all of them in school — you know how your machine fits into each.

In Vietnam, you may be assigned to the 1st Air Cavalry Division with its two assault helicopter battalions (UH-1D) and assault support helicopter battalion (*Chinook*), plus helicopters in the brigades, aerial artillery, the artillery headquarters, the air cavalry — almost all portions of the division.

You may be assigned to one of the non-divisional battalions or companies that make up the 1st Aviation Brigade, the major aviation element in Vietnam, consisting of two aviation groups and a number of battalions. In addition there are many separate divisional combat aviation units and other smaller detachments employing both rotary and fixed-wing aircraft.

Listen to the pros!

When you reach Vietnam and report to your unit, listen to the *old pros* — learn what you can from them! You'll be paired initially with an oldtimer probably flying the left seat of the bird. Most units have a system where you train or fly with an experienced pilot for 25 to 50 hours before you are permitted to be first pilot in command of a helicopter. This will enable you to learn the combat field techniques — how to fly in the extremely high temperatures; how to fly in and out of close confined areas deep within the jungle; how to understand and live with the monsoons and the other weather aspects of Vietnam.

The monsoons are vastly overrated. The 1st Air Cavalry found during its first year in Vietnam in the Central Highlands where effects of both the northeast monsoon and

the southwest monsoons are felt, that helicopters could fly ninety-five percent of the time. Invariably, a way was found to fly through the weather, down on the deck, below the clouds, in and out of the fog, or guiding on roads and other terrain features.

You'll learn the terrain itself and become so familiar with it that when the weather is bad, it'll be like driving in a Los Angeles fog, down a road, or a valley which you know like the back of your hand.

War stories

Pay attention to those around you as far as their good qualities are concerned. Try not to get upset by the many war stories you'll hear. Keep in mind that we all tell war stories, just as you told them, recounting your experiences in Flight School.

Don't worry about the vulnerability of the helicopter or the fact you may get wounded or killed. Without going into a lot of detail, you do take certain risks. Birds are shot at. Birds are hit. Some aviators and other crew men are killed and wounded. But the numbers are small.

There are fewer pilots, co-pilots, crew chiefs, and gunners killed proportionately here than are Infantrymen whom you are transporting into the battle. Remember the men you take into battle have to stay there and participate in it *all* of the time. You're fortunate! You only go in for a few minutes from time to time and do not have to remain, although you may be going back in on repeated passes and under varying tactical and weather conditions.

You are privileged to be an Army Aviator as I am. It is a most important job. Take pride in having been selected to attend Flight School, completing the rigorous training and earning your wings. Now you must add some polish to those wings, from combat and field experience you'll gain in the states before going over and finally in your ultimate test in Vietnam.

I wish you the best of luck in Vietnam and look forward to hearing from you from time to time. Hopefully one of these days I'll see you again over there.

Good luck,
KDM



LANDING ZONE ENGLISH, USARV — MG John J. Tolson, commander of the 1st Cavalry (Airmobile), attaches a Meritorious Unit Commendation streamer to the standard of the 11th Aviation Group, as SGM Keith Personnette, the Group Sergeant Major, stands at the left. The unit was presented the award for its outstanding support of the First Team during 1965-1966.

Army Aviation

OCT.-NOV. PHOTOS



FT. EUSTIS — LTC Erwin Mitchell (left), of the Maintenance Training Dept. at USATSCH, is shown presenting 1LT Hasko Karl-Willi Eckel an Army Aviation Ass'n Certificate of Achievement for being the Honor Graduate of Aircraft Maintenance Officers Course 1-68. The award is presented to each AMOC Honor Graduate by the David E. Condon Chapter of the AAAA.



AN KHE — COL Joseph L. Gude (standing at left), 11th Aviation Group Commander, congratulates LTC Robert C. Kerner, CO of the 228th Aviation Battalion, on the Winged Warriors' 15,000 flying hours without accident in USARV. CPT Robert G. Deppy (left), Bn Avn Safety Officer, and SGM Robert H. Thorne (right), hold the sign commemorating the occasion.

FT. RUCKER — Personnel of Warrant Officer Rotary Wing Aviator Course (WORWAC) 67-19 pose for a class picture following their attainment of 100 per cent membership in the Army Aviation Association (AAAA). The 254-member class is scheduled to graduate from USAAVNS on November 21. Assigned to the 1st WOC Company in the USAAVNS Regiment, the class received a \$762 AAAA Refund check for "going 100 per cent." The September 16 presentation was made by LTC Raymond E. Dickens, WOC Bn commander, to WOC John E. McFall, the 67-19 Class Leader. (USA Photo)





AAAA FOUNDATION OFFERS \$3,500 IN SCHOLARSHIP AID

The AAAA Scholarship Foundation announces the availability of \$3,500 in 1968 scholarship assistance funds for the sons and daughters of members and deceased members of AAAA.

Application forms for the 1968 scholarships may be obtained by writing to the AAAA Scholarship Foundation, Inc., 1 Crestwood Road, Westport, Conn. 06880. The applications, together with other supporting application data, must be returned to the Foundation on or before March 1, 1968 to receive Awards Committee consideration.

ELIGIBILITY

Eligibility requirements for the awards have been minimized. The applicant must be:

1. The son or daughter of a member or deceased member of AAAA.

2. A high school graduate or senior who has made application to an accredited college or university for Fall, 1968 entrance as a freshman, or who has been accepted for freshman enrollment in the Fall of 1968.

3. Unmarried and a citizen of the United States.

AREA INTERVIEWS

Following the receipt of the completed application form, the financial statement, and the required academic transcripts, the Foundation will notify the applicant to report to a group of interviewing officers selected from among the AAAA membership residing in the applicant's area. The "Report of Interview" serves as an important, (but not mandatory) part of the documentation required for awards consideration.

FINAL SELECTION

The final selection will be made by the AAAA National Awards Committee, a permanent standing committee of the National Executive Board of the AAAA that has been designated as the Foundation's judging agency. The selection will be made during the month of March, 1968 period with the winners to be notified by March 31, 1968.

BACKGROUND

Incorporated in December, 1963, the AAAA Scholarship Foundation, Inc. is a separate non-profit education activity created to administer scholarship assistance to the children of members.

The previous scholarship recipients have included Joel R. Graft (1963); Danny P. Barrett, Cheryl Ann Cretin, Roger A. Moseley, and Robert P. Spears (all in 1964); and Harmon B. Dow, Kathryn M. Eggers, Penny L. Francis, Jessica Ann Fried, Joseph W. Hely, Jr., Michael E. McMaken, and Leslie T. Schockner (all in 1965).

The seven 1966 scholarship winners included Laurie Jo Davis, Eugene F. Geppert, Joseph J. Lahnstein, Roxanne Roehl, Robert P. Thomson, Chauncey L. Veatch, Jr., and Betty R. Williams.

The 1967 \$500 Scholarship winners included Kathryn G. Black, Thomas E. Brazil, Donna M. Budjick, Philip K. Chamberlain, Marion L. Dellapa, Geri I. Paul, and Martin S. Tyson. \$100 Honorariums were awarded to Florence L. Barker, Deborah H. Francis, Sharon J. Raulston, and Lincoln P. Webb.

With the issuance of the 1967 scholarship assistance, the AAAA Scholarship Foundation has provided \$13,850.00 in direct aid to thirty students since the inception of the program in 1963.

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