THE 1986 AVIATION SOLDIER DIRECTORY / PAGE 38

GUEST EDITORIAL . General John R. Galvin, CG, U.S. Southern Command

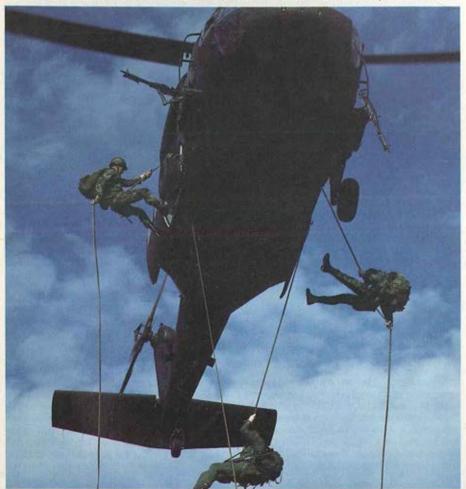
FIELD REPORTS . The X-Wing: A trip into the future of Army Aviation 18

AAAA • Nominations open for the CY86 AAAA National Awards

54

ARMYAVIATION

ENDORSED PUBLICATION OF THE ARMY AVIATION ASSOCIATION . OCTOBER 31, 1986 . \$2.50





Army Aviation in Latin America: The Key to Crisis Response

by General John R. Galvin Commanding General, U.S. Southern Command, Quarry Heights, Panama

T 8:50 p.m. Wednesday, November 13, 1985, the Nevado del Ruiz Volcano in northern Colombia erupted in a roar of dark smoke, steam and ash. More than 21,000 people were killed or missing after walls of grey mud buried the town of Armero.

By Friday morning eight UH-60 and four CH-47 helicopters and crews of the Panama-based 193d Infantry Brigade's 210th Combat Aviation Battalion were enroute to Colombia to provide disaster relief and geological survey support. Viewers of television and readers of newspapers all over the world were not surprised at the accomplishments, dedication and professionalism displayed by the 210th during this very trying period: this is what people everywhere have come to expect of United States Army Aviation.

Carrying the message

Army aviators logged over 680 hours of intense flying, using much oxygen and making repeated landings at the 15,000 to 16,000 foot elevation. Their accomplishments were well reported by the news media, including National Geographic, and reflected in a highly positive way on our Aviators and our Nation. These few soldiers sent a very significant message of concern and sup-

port from the people of the United States, to the people of Colombia, and to other countries in the region, a message that the United States is a caring and reliable ally.

Protecting democracy

Latin Americans, indeed free people all over the world, look to the U.S. for support in time of crisis. Last March the Marxist Sandinista regime in Nicaragua conducted a major incursion into Honduras on a scale beyond the numerous previous incidents.

In reaction, the Government of Honduras sought U.S. assistance to move a task force of four companies of Honduran infantry into blocking positions to prevent further advances of the Sandinistas. Once again, a relatively small number of U.S. Army helicopters took the lead in displaying the firm commitment of the U.S. to help an ally defend itself against aggression.

Fourteen helicopters from Joint Task Force Bravo in Honduras, some of which were in Honduras to support an upcoming exercise, were used to transport Honduran forces. The important message was our obvious commitment and support for our Central American ally, showing (Crisis Response — Continued on Page 36)

Reduce Maintenance Costs!



With J.E.T. Turbine Engine Monitors you can make application to eliminate a hot section inspection and extend TBO.

The ETM-600 is the first affordable turbine engine trend system to give you a true picture of your engine's condition - and allow real savings in maintenance costs.

It gathers data from your engine's critical parameters, and determines if the engine is following normal degradation curves. If so, you can eliminate a hot section inspection or extend time between overhauls. If your engine shows signs of premature failure, the ETM-600 will warn you, on the fly - and let you know if the problem's in the left or right engine.

The ETM-600 stores data in a removable memory module, which is downloaded into a PC through a groundbased reader. The information determines, with the help of our service experts, the condition of your engine - so you can eliminate a hot section or extend TBO.

The SEM-1000 is a turbine engine life monitor. It provides tracking of cycle life limited components, and determines excedances in magnitude and duration.

All this information is displayed through an LCD readout on the front of the instrument. A simple sequence menu is displayed and paged through with a single key - allowing maintenance personnel to rapidly recover the information they need. For example: Number of cycles on the turbine wheel? Number of starts? Any hot starts or overtemps? If so, how long and how hot?

The SEM-1000 monitors engine life in real time, and stores the data in a nonvolatile memory. It gathers data through the engine/airframe critical parameters, including ITT, fuel flow, OAT, and more. And it's all readily available at the push of a button.

Call today for more information — 1-800-253-9525.



Jet Electronics and Technology. Inc.

A Subsidiary of Gates Learjet Corporation

5353 52nd Street, S.E./Grand Rapids, MI 49508-0239 Telex: 22-6453 JETELECTEC GDR PUBLISHER Arthur H. Kesten

EDITOR-IN-CHIEF Lynn Coakley

MANAGING EDITOR John Kiernan

ADVERTISING MANAGER Terrence M. Coakley

EDITORIAL ASSISTANT Joan Zinsky

CIRCULATION MANAGER
Jill Thomas

CIRCULATION ASSISTANTS Mary Ann Stirling, Debbie Coley, Beth Bartsch

Army Aviation Magazine is a professional journal endorsed by the Army Aviation Association of America (AAAA).

ADVERTISING

Display and classified advertising rates are listed in SRDS Business Publications, Classification 90. For advertising information, call (203) 226-8184.

SUBSCRIPTION DATA

ARMY AVIATION (ISSN 0004-248X) is published monthly, except April and September by Army Aviation Publications, 1 Crestwood Road, Westport, CT 08880. Phone: (2003) 228-8184 and (2003) 228-8185, Subscription raises for non-AAAA members: \$14, one year; \$26, two years; add \$7.50 per year for foreign addresses other than military APO's.

ADDRESS CHANGES

The receipt of change of addresses is verified by the publication of the residence change in the "Takeotts" or PCS columns of the magazine. Senior AAAA members (C-6's and above) are asked to provide their new duty assignment for publication in the magazine's "Command & Staff" column.

POSTAL

Second class postage paid at Westport, CT.

FORTHCOMING ISSUES

November 30, 1986—A Special Focus on the U.S. Army's Aircraft Survivability Equipment (ASE) development program.

December 31, 1986—A General News Issue, containing field reports from Army Aviation units and agencies worldwide.

January 31, 1987—A Special Report on the Army's Light Helicopter Experiental (LHX) Prgram.

FRONT COVER

The Sikorsky UH-60A BLACK HAWK is shown in use as a tactical Air Assault vehicle.

ARMYAVIATION

VOLUME 35 NUMBER 10

Guest Editorial — Army Aviation in Latin America by General John R. Galvin, CG, U.S. Southern Command	2
Aviation Branch — Technology for the Battlefield of Tomorrow by Major General Ellis D. Parker, CG, USAAVNC & Ft. Rucket	
AAAA - \$44,000 in AAAA Scholarships being offered	
AAAA - Nominations open for the AAAA National Awards	54

SEPTEMBER, 1986 FIELD REPORTS

Air Traffic Control — Big changes at the ATC Activity by COL Charles L. Woodhurst, Former Cdr, USAATCA	10
Air Traffic Control — The 58th ATC Battlion of XVIII Corps by LTC Earl H. Grubbs, Former Cdr, 58th ATC Bn, Ft. Bragg, NC	10
Avionics — The ACAP Composite Airframe Program at AVRADA by Mrs. Bobbi C. Campbell, USAAVRADA, Ft. Monmouth, NJ	11
Industry - Sikorsky's X-Wing: A trip into the future	

by Dr. Kenneth M. Rosen, Dir. V/STOL Programs, Sikorsky-UTC....18

Operations — The 210th CAB: The Bolivian Connection
by LTC Michael H. Abbott, Cdr. 210th Cht. Avn. Bn. Panama. 20

by LTC Michael H. Abbott, Cdr, 210th Cbt Avn Bn, Panama.....20

Personnel — The Warrant Officer Division at MILPERCEN

by COL Joel H. Hinson, Chf, WO Div, MILPERCEN, Alexandria, VA...25

R & D — MAMP: The key to long-range Army R & D planning
by Gary L. Smith, Dir. of Adv. Systems, AVSCOM, St. Louis......26

R & D — The Propulsion Directorate: Testing Engine Design by John Acurio, Dir., Propulsion Directorate, ARTA, Cleveland, OH....28

Reserve Component — The centralized training of EAATS by COL Kenneth D. Rhoades, Cdr, EAATS, Ft. Indiantown Gap, PA....30

Survivability — Aviation Life Support Equipment on the move by LTC Karl R. Griffin, ALSE-PM, AVSCOM, St. Louis, MO......31

Test & Evaluation — The USAAVNDTA acid-tests equipment by COL Lawrence L. Karjala, Cdr, USAAVNDTA, Ft. Rucker, AL..32 Test & Evaluation — From mountains to desert: USAAEFA

by MAJ Rickey C. Simmons, USAAEFA, Edwards AFB CA.......34

1986 AVIATION SOLDIER

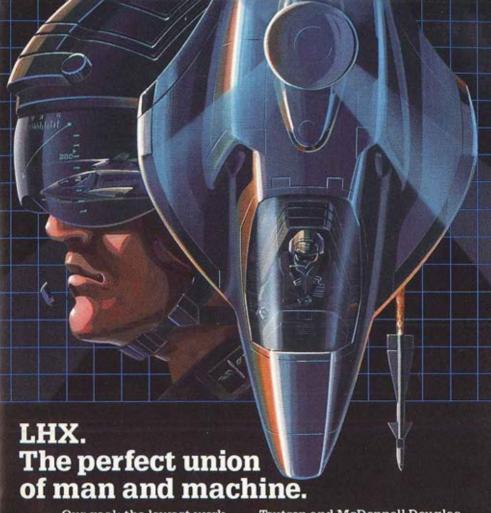
The 1986 Aviation Soldier Directory, a voluntary Professional-Person	al
Roster of AAAA's enlisted members	39
AVIATION SOLDIER INDEX	38

OTHER DEPARTMENTS

PCS-Changes of Address45	AAAA Overview51
Awards & Honors16	Command & Staff16
AAAA Calendar	50

EDITORIAL MATERIAL

The views expressed in the magazine are those of the individual author and may not necessarily be those of the Department of the Army or the staff of this publication. Manuscripts, drawings, photos, and other material cannot be returned unless accompanied by a stamped envelope bearing the submitter's return address.



Our goal: the lowest workload in the most lethal helicopter ever built for the U.S. Army — LHX, a machine for tomorrow's AirLand Battles.

McDonnell Aircraft Company, the world's leader in fully integrated single-pilot combat aircraft, is joining the world's leaders in scout and attack helicopters: Bell Helicopter Textron and McDonnell Douglas Helicopter Company. *This* is the SuperTeam for LHX.

LHX is indeed a machine for tomorrow, but we're flying the aircraft today, in full combat mission simulators, years before the first prototype rolls onto the flight ramp.

This is the beginning of a breakthrough.



Technology for the Battlefield of Tomorrow

Major General Ellis D. Parker

Commanding General, U.S. Army Aviation Center and Ft. Rucker, Alabama



N the past few months I have made reference to the V-22 program in a cursory fashion. At this time I believe it necessary to give you an in-depth look at this aircraft — an aircraft which we in Army Aviation believe will revolutionize our ability to fly and fight in future tactical situations.

The Army will be procuring the U.S. Marine Corps production version of the V-22—a multipurpose, multiservice tilt rotor aircraft—in the early 1990s. This is the aircraft the Army has been looking for — it will meet the multimission requirements of utility/assault as well as medical evacuation.

The V-22 will also serve the battlefield commander because its vertical take-off and landing (VTOL) capability means it can insert and/or extract up to 24 combat equipped soldiers in selected areas of the battlefield.

Its fixed wing capability makes it a troop transport and/or a cargo carrier which can fly long distances to and from the battlefield and land on short, rough surfaced runways. When reconfigured, the V-22 becomes a medical evacuation aircraft able to handle 12 litter patients and two attendants.

Ideal aircraft for the future

The characteristics of the V-22 make it the ideal aircraft for most tactical scenarios. It is fast; highly maneuverable; and capable of extended flight operations in daylight visual, night or instrument meteorological conditions, as well as in moderate icing conditions. The aircraft will be able to be refueled in the air-to-air and hover mode.

It will have an internal or external payload capacity of 10-15,000 pounds and a takeoff weight of 59,900 pounds for self-deployment.

Noteworthy is the fact the aircraft will incorporate the latest crashworthy aircraft survivability features.

The U.S. Army Aviation Center (USAAVNC) has been actively involved with the V-22 program, particularly since late 1985 when it drafted the V-22 Operational and Organizational Plan (O&O Plan).

This plan formally describes the Army's requirements concerning the aircraft and how it is to be employed. The USAAVNC has hosted a number of Armywide information briefings to educate the Army community on the V-22.

Currently, representatives from the Army have been assigned to the Naval Air Systems Command (NAVAIR) in Washington, D.C., to work closely with their Navy and Marine Corps counterparts in the V-22 program, since the Navy is the lead service concerning the proponency of the aircraft.

The USAAVNC and the Army Aviation Systems Command (AVSCOM) have worked closely with one another and with the Assistant Secretary of the Army for Research Development and Acquisition, Dr. Jay R. Sculley, who is a proponent of the program and the technology it represents.

The V-22 program is on schedule, and the first flight of the prototype is scheduled to occur in June 1988. The Army is to take delivery of the first production model in late 1993 or early 1994. I will keep you apprised of the V-22 program and its impact on our mission.

ANVIS

Previous wars in which the United States has fought indicate a willingness on the part of the enemy to fight at night. For example, the Soviet Bloc nations incorporate sustained nighttime tactical operations as part of their battlefield doctrine. In turn, the U.S. Army has been heavily engaged in training its soldiers in the use of technology to help them fight successfully at night. That training has included the use of night vision goggles (NVG) by aviators.

The first NVG used by Army aviators was the AN/PVS-5A, which had been designed for ground troops. For aviation use it was cumbersome, restricted vision, limited depth perception, and was difficult to focus. Modification of the AN/PVS-5A removed the lower portion of the faceplate, which improved those restrictions somewhat.

Approximately two years ago, the Army began fielding the Aviators Night Vision Imaging System (ANVIS), which is a marked improvement over the AN/PVS-5A. The ANVIS is smaller, consisting of two image intensifier tubes that are mounted on the light helmet and can be flipped up when not in use. The new system also has clarity, such as a blocking filter that precludes the wearer from seeing blue-green lighting in the helicopter. A pilot can also look under and around the ANVIS tubes for map reading and instrument checks. Army aviators who have used the new system have given it high marks.

Currently, the ANVIS is being used in the instructor pilot transition courses. The transition from the AN/PVS-5A requires some classroom training for the instructor pilots and a one-hour transition flight with an individual who is ANVIS qualified. It is hoped that by 1989 every aviation unit will be equipped with the ANVIS and that every aviator will be current with it.

It is my opinion that the across-the-board use of ANVIS by our aviators will permit us to fly lower, faster and safer at lower light levels, and that it will enhance the achievement of our mission.

Personnel

Kudos go to the men and women of the Directorate of Aviation Proponency's Office of Personnel Systems at Ft. Rucker for getting the Aircraft Survivability Equipment (ASE) training moved from Ft. Huachuca, AZ, to Ft. Gordon, GA, where training slots, students, and equipment were available. It was found that instruction in the 35K MOS (Aviation Unit Maintenance) and 35R MOS (Aviation Intermediate Maintenance) at Ft. Gordon matched the maintenance concept of Army Aviation, and would be seven weeks shorter than it previously was. Also, no TDY was necessary for students. The first ASE class at Ft. Gordon begins October 6, 1986.

In closing, I want to reiterate my welcome to our new Assistant Commandant, BG Rodney D. Wolfe, and his family. Gen. Wolfe began his duties August 22, 1986, and you will be hearing more about and from him in future issues. IIIII

Coming Next Month

The November 30th issue of Army Aviation will contain a Special Focus on the Aircraft Survivability Equipment (ASE) program, including an article from COL Curtis J. Herrick, ASE-PM.

Field reports will include two hardware articles on the V-22 Osprey Tilt Rotor Aircraft, an article from the Special Electronic Mission Aircraft (SEMA) PM, and the former PM for the CH-47D Modernization Project Manager.

Other articles will come from the School of Aviation Medicine, the 501st Attack Helicopter Battalion, the Directorate of Combined Arms Tactics, the Corpus Christi Army Depot (CCAD), as well a a Personnel Report from the Aviation Branch of Officer Personnel Management Division (OPMD).

Who can show a pilot all of Georgia in 3-D?

Harris can, with a full-color digital map.

On a single small cassette tape, we can compress and store at least 62,000 sq mi of the earth, in three dimensions. As the aircraft moves, the map display moves accordingly—and the pilot can do remarkable things with it. Make hazards stand out in brilliant color, for example. Selectively display (or erase) features such as roads or enemy antiaircraft emplacements. Show safe areas masked by the terrain. Change scales or see how an area would look from different angles and altitudes. Receive last-minute map changes in flight and enter his own observed changes.

So the pilot can continuously see precisely what he needs to see. Even with zero visibility, and without using radar.

The Harris STARS (Stored Terrain and Access Retrieval System) has been developed under Army and Air Force sponsorship, using Defense Mapping Agency data, for upcoming programs such as the advanced F-16, LHX and JVX. Think what the same information technology could do for other applications.

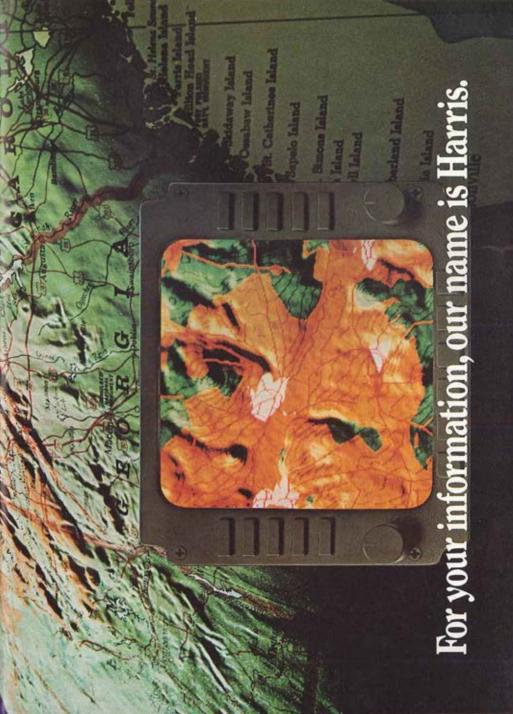
It's just one example of how *Harris*Aerospace meets challenges in the information field—by advancing systems technology.

Harris Corporation, Government Aerospace Systems Division, Melbourne, FL 32902.

Phone (305) 727-5115.







Air Traffic Control

Big changes on the screen at the Army's ATC Activity

FT. HUACHUCA, AZ — By now everyone knows that ATC is being transferred from Information Systems Command (ISC) to TRADOC (Ft. Rucker). ATC has been the responsibility of ISC for the past 13 years.

COL Mel McLemore is to be the new ATC boss at Ft. Rucker. The effective date of transfer will be 1 October 1986. COL McLemore has an advance party on the ground at Ft. Rucker and plans are to be fully operational shortly after the new fiscal year begins.

The ATC transfer plan calls for decentralized ATC Command and Control (C²). The four ATC battalions will be transferred to the major organizations that they support.

The 59th ATC Battalion will be assigned to USAREUR, the 58th to XVIII Corps, the 16th to III Corps, and the 125th to Eighth Army. C² of ATC elements at Army installations in CONUS will reside with the respective garrison commanders.

The U.S. Army Air Traffic Control Activity (USAATCA), in its new home at Ft. Rucker, will conduct its worldwide mission under the direction of the DA and will act as a Field Operating Activity.

It will be responsible for airspace; policy and procedures; flight evaluation; development, programming and procurement of ATC equipment; technical assistance; standardization, and personnel certification. The ATC evaluation team, which has operated separately, will rejoin USAATCA at its new home. ISC will retain its engineering, installation and test mission for fixed ATC. Tactical ATC combat development will be managed by the USAAVNC Directorate of Combat Developments.



A Report by Colonel Charles L. Woodhurst

This will be my last report from the field as Commander of USAATCA. The past 15 months have been challenging and rewarding. The ATC program is reasonably funded through 1992.

The emerging doctrine for ATC may require some changes in the program, but they should be minor. The leadership at Ft. Rucker is committed to furthering the role of ATC in the AirLand Battle.

My new job will be Defense Attache in Kathmandu, Nepal. My sponsor has already sent me a photo of the ATC facility at Namche Bazaar near Mount Everest — the highest airfield in the world. I wish all ATC soldiers the best and look forward to their future accomplishments.

—COL Charles Woodhurst Former Cdr, USAATCA

The 58th Battalion: ATC from Kentucky to Honduras

FT. BRAGG, NC — As I complete my battalion command tour, I appreciate this opportunity to present this command's recent ATC involvement in Honduras.

The 58th Air Traffic Control Battalion is headquartered at Ft. Bragg, NC, but its units are scattered among three states.

The units provide tactical terminal and enroute ATC support, navigational aids, air warning and inflight assistance for aviation assets of the XVIII Airborne Corps, 101st Airborne Division (Air Assault), 82d Airborne Division, 24th Infantry Division (MECH), and three separate brigades.

In September 1985, the battalion expanded its mission to include Joint Task Force Bravo, headquartered at Pamerola Air Base, Honduras.

In mid-October 1985, three C-141's departed Pope Air Force Base at Ft. Bragg with 38 members of the 3d platoon, 245th ATC Company (FWD) and associated ATC equipment to support this mission.

The battalion's personnel were tasked to learn Spanish, train up and assume control of the airspace by 1 November 1985. With a lot of assistance from our sister unit, the 16th ATC Battalion headquartered at Ft. Hood, TX, the 3d platoon was geared and ready for action.

In support of this mission the

platoon members employed an AN/TSQ-70A (tactical tower), two AN/TSQ-71B's (Ground Controlled Approach (GCA) radars), several AN/TRN-30 (V) 2's (non-directional beacon), AN/TSC-61B (Flight Coordination Center), and RATT Communications between Honduras and Ft. Bragg.



A Report by Lieutenant Colonel Earl H. Grubbs

The biggest task facing the ATC'ers was learning the uniqueness of Honduran airspace rules and regulations and establishing their GCA's to FAA standards. Due to a few 58th bilingual controllers, the first task was relatively simple — the latter proved to be more

difficult.

After numerous flight evaluation checks by the USAISC Flight Evaluation team from Ft. Huachuca, AZ the task was accomplished and the GCA was commissioned (a first). Additionally, the AN/TRN-30 (V) 2 navigational aid serving Pamerola was flight checked and commissioned.

Besides controlling a multitude of varied air traffic (C-5's, Honduran props and jets, UH-1's) on a 24 hour, seven day a week basis, the platoon members kept themselves busy during their "off duty hours". They built bunkers, remodeled "hootches", fixed satellite TV antennas, performed PMCS and took R & R trips. After five and a half months, the platoon was replaced by its sister platoon, the 2d.

In February 1986, the mission was expanded to include tactical ATC operations at Oso Grande, Mocoran and Puerto Lempira. Tactical towers and NDB's were employed in support of these road construction projects conducted by the Missouri National Guard Brigade and the 27th Engineer Bn from Ft. Bragg, NC.

In May 1986 the Army's ATC mission was turned over to the USAF. The 58th ATC'ers were elated to return home to their families, but somewhat dejected by having to vacate the best ATC training environment possible; training that certainly enhanced each member's "goto-war" ATC ability.

More importantly, the platoon members were saddened to leave behind so many close friends, both American and Hondurans; established friendships that further enhanced the American, Aviation and professional Air Traffic Controller image broad.

—LTC Earl H. Grubbs
Former Cdr, 58th Air
Traffic Control Battalion

Avionics

Electronics and the Composite Airframe: ACAP at AVRADA

FT. MONMOUTH, NJ — Commercial and military aircraft, both rotary and fixed wing, will be lighter in the future. This weight reduction will be made possible by the use of advanced composite airframes rather than metal airframes.

Composites are advantageous, but for structural

reasons, they complicate avionic issues considerably.

Various composite materials exhibit a wide range of electrical characteristics, so that the auxiliary electrical functions previously performed by the metal fuselage may no longer be so easily provided.

Since production composite airframes had not been evaluated under service conditions with complete avionic systems installed, the Advanced Composite Airframe Program

(ACAP) was developed to demonstrate physical characteristics of composites.

Foremost among the Army's ACAP objectives were reductions in manufacturing cost and weight, relative to a metal airframe while still meeting stringent military requirements, in cluding safety and survivability.

The choices of materials for composite aircraft have a major impact on avionics. Those selected by Bell and Sikorsky were based on a variety of ap-

Avionics

plications including strength, stiffness, toughness, environment, ballistic tolerance and manufacturing methods.

Advances in synthetic-fiber composites have produced material with structural characteristics superior to metals. They have higher strength to weight ratio, ease of fabrication, and the availability of a broad spectrum of materials with structural charactertistics which can be tailored to different applications.

It is now feasible to produce composite aircraft with performance equal to or better than metal aircraft, with substantial savings of weight and cost.

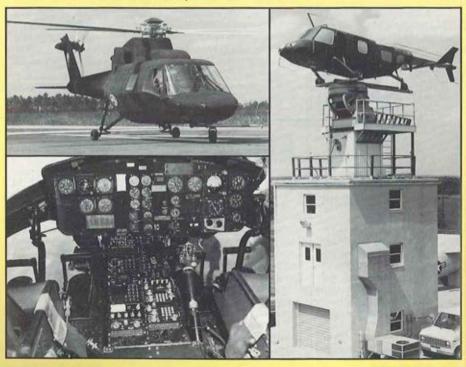
Kevlar/epoxy, a dialectric material, does not provide electromagnetic shielding, protection against lightning or current return paths. Graphite/epoxy is somewhat conductive, making it useful for some of these purposes, but not all.

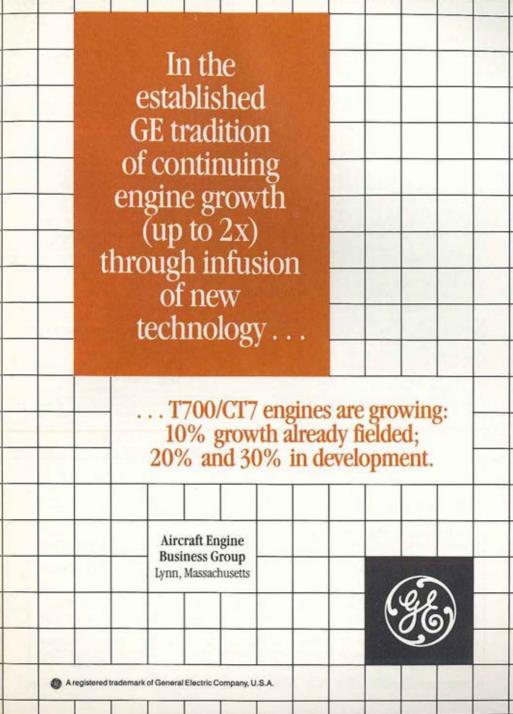
Graphite/Epoxy is the predominant material used in the airframe. Due to the specified severe environmental conditions, only stable high temperature cure epoxy resins were selected for long term durability. Electrical properties lost in the transition from metal to composites will have to be compensated for by the reintroduction of some metal.

Composites are either totally dielectric (non-conductive to electrical current), such as fiber glass and Kevlar, or semiconductive as in the case of graphite epoxy. These are the predominant materials used in the program.

The Army initiated an Advanced Composite Airframe Program to investigate and demonstrate reduced cost and weight, increased production,

ABOVE: The Sikorsky ACAP, BELOW: The ACAP insturent panel. RIGHT: The Bell Tool Proof Hull (TPA) atop NADC 40 foot tower for antenna evaluation.





Avionics

and improved reliability, maintainability, vulnerability, safety, and survivability, by incorporation of advanced composite materials and structural design concepts for both primary and secondary structures.

Conductivity of the aircraft skin is required to provide antenna ground planes, electromagnetic shielding, lightning protection, and elimination of static charge build-up/arcing.

The ACAP airframe has an aluminum screen material impregnated into the exterior Kevlar/epoxy skin to provide these functions. This screen protection was found to be adequate during initial Research and Development testing, but neither this screen or the graphite/epoxy provide protection to the extent of a conventional aluminum airframe.

Under the preliminary ACAP design effort, Bell and Sikorsky developed flyable Tool Proof Article (TPA) helicopters for the United States Army. The Aviation Applied Technology Directorate (AATD) at Ft. Eustis, VA is the lead DOD element for this development, and follow-on efforts.

The U.S. Army Avionics Research & Development Activity (AVRADA) conducted surveys of industry to determine potential problems with avionics used in composite airframes and to determine the technological requirements of integrating avionics into composite structures.

The major problems found involved structural protection against lightning, antenna integration, power system design and electrical safety, elec-

tromagnetic shielding and radar cross section.

The surveys revealed a need for design guidelines and handbooks, revised specifications, standard measurement methods, and data upon which to base those items.

Using the data base established through a survey of Industry and Government experience in composite airframes, additional areas of investigations were identified to aid the Army in establishing guidelines and standards for installation and operation of avionics in composite airframes.



A Report by Mrs. Bobbi C. Campbell

In this effort, AVRADA is supporting the AATD at Ft. Eustis by conducting a series of studies, static tests and flight tests on the Bell and Sikorsky prototype helicopters.

Static tests have been performed on a "tool proof" airframe, to evaluate the performance of aircraft antenna systems designed for specific purposes and over a wide frequency range.

These tests were performed on an antenna test range and the aircraft was mounted on a test tower, dynamically positioned to permit measurements of antenna radiation patterns, input impedance, Voltage Standing Wave Ratio (VSWR),

Gain/efficiency, etc.

Assembling individual avionic systems requires an understanding of the way these units interact with each other and with the environment. The materials from which aircraft are built can have a major influence on how avionics are best installed, and how well they perform the functions they were designed for, particularly when the airframe is of a composite material.

AVRADA was tasked by the Aviation Systems Command (AVSCOM), to integrate a full complement of current avionic equipment, including antenna systems, into the ACAP aircraft.

With the help of the Naval Air Development Center (NADC) in Warminister, PA, a full scale analysis of various antenna systems installed on the Bell Tool Proof Article was conducted. Production prototype antenna systems that essentially meet military specification requirements when installed on Army aircraft were tested and evaluated.

The Bell Tool Proof Article was selected because it contained the same wire mesh as the flyable aircraft. The data is still being analyzed, but performance of the antennas tested was satisfactory. The lowest frequency used during these tests was 30 MHz.

ACAP is a major step forward in helicopter technology. The first application of composite airframes in the U.S. Army is expected to be the LHX family of rotary wing aircraft.

—Mrs. Bobbi C. Campbell Plans & Resource Mgmt. Division, AVRADA Q.

What similar purchase have more than 12,000 Army Aviators made in the past 15 years?

They've purchased AAAA-endorsed flight pay insurance. As an active duty or or as a Reserve Component Army Aviator, don't you think you owe it to yourself to get the basic facts about this coverage which has returned more than \$2 million in lost flight pay to claimants?

All it costs is a stamp.

LADD AGENCY, INC. 1 CRESTWOOD ROAD, WESTPORT, CT 06880 Gentlemen: Please forward me the pertinent details of the AAAA-endorsed flight pay insurance coverage. I am on flying status with a U.S. Army unit. AAAA member. I am a student pilot undergoing Army flight training. NAME ADDRESS CITY STATE ZIP MY DATE OF BIRTH IS

Awards and Honors

AWARDS

AAAA CHAPTER—SELECTED "AVIATION SOLDIER / NCO OF THE MONTH"

AUGUST 1986 — Numberg Chapter PFC Raymond A. Weiss Aviation Center Chapter SSG Aaron Villalpando (NCO) SP4 James K. Piette (Soldier)

SEPTEMBER 1986 -

Aviation Center Chapter SGT Bradley L. Seltzer (NCO) PFC Jane M. Rawlings (Soldier)

HONORS

U.S. ARMY AVIATION CENTER FT. RUCKER, ALABAMA

- * Distinguished Graduate
- + Honor Graduate

AUG. 29, 1986 — Guest Speaker: COL Moses Erkins, Chief, Combat Arms Division, USA MILPERCEN, Alexandria, Virginia.

Officer RW Aviator Crs Class 86-8: *
2LTs Mark L. Holman, Zlad Haikal; +
2LTs David C. Woods; Joe M. Hines;
Christopher Corkery; Christopher Smith.

Warrant Officer RW Aviator Class 86-7: ★ WO Stephen B. Brown;+WOs James R. Beidler; John L. Wetzel Jr.; John A. Brenner.

AUG. 29, 1986 — Guest Speaker: COL. Charles L. Webb, Deputy Commander for Administration, USA Aeromedical Center, Pt. Rucker, AL..

Warrant Officer Sernior Crs Class 86-5: ★ CW3 Troy W. Carbaugh; + CW3s Wesley C. Wolf; Richard A. Coats; Roy L. Rogers; Jim F. Smithheisler

SEPT. 5, 1986 — Guest Speaker: COL. Danny A. Young, Director, Dir. of Logistics, USAAVNC, Pt. Rucker, Alabama. Aviation WO Advanced Crs Class 86-8:

* CW2 Darren S. Trumeter, Sr.; + CW2s Joseph L. Irwin; Marion L. Danley; Gregory A. Rogers; Lilly N. Herring. SEPT. 10, 1986 — Guest Speaker: COL EIRay Jenkins, Commander, USA Aeromedical Center, Ft. Rucker, Ala. Warrant Officer Senior Crs Class 86-4: CW4 John A. Kissel (class leader)

SEPT. 12, 1986 - Guest Speaker: MG

James C. Smith, Retired, Former Commander USAAVNC and Past Pres of the Army Aviation Association of America.

Officer RW Aviator Crs Class 86-10: ★
2LT Michael D. Miscoe; + 2LTs Randolph R. Rotte, Jr.; David P. Keller;
Charles J. Packard: Richard S. Daum.

Command & Staff

Brig. General William H. Forster, as Program Manager, Advanced Attack Helicopter (APACHE), U.S. Army Materiel Command, St. Louis, Missouri.

Brig. General Rhoss C. Lomax, Jr., as Chief of Staff, 5th U.S. Army, Ft. Sam Houston, TX.

Brig. General Gerald B. McConnell, as Assistant Chief of Staff for Plans and Policy, Allied Forces Southern Europe, Naples. Italy.

Brig. General John H. Stanford, as Deputy Commanding General, U.S. Army Aviation Systems Command, St. Louis, Missouri.

Brig. General Rodney D. Wolfe, as Assistant Commandant, U.S. Army Aviation Center, Pt. Rucker, AL.

Colonel L. Fred Belcher, as Senior Army Advisor, 807th Medical Brigade, Seagoville, TX.

Colonel Rodney D. Bither, as Commander, U.S. Army Plant Representative Office, McDonnell Douglas Helicopter Company, Mesa, AZ.

Colonel Peter H. Carr, as Commander, Aviation Brigade, 4th Infantry Division (Mechanized), Ft. Carson, CO.

Colonel Albert E. Hervey, as Commander, U.S. Army Safety Center, Ft. Rucker, AL.

Colonel Phillip W. Gaskins, as Commander, Aviation Brigade, 6th Infantry Division (Light), Ft. Wainwright, AK.

Colonel Robert A. Goodbary, as Military Assistant to the Deputy Secretary of Defense, Washington, D.C. Colonel Howard D. Hill, as Executive Officer, Army Reserve Forces Policy Committee (HQDA) Washington, D.C.

Colonel Gerald T. Hipp, as Deputy Director, Directorate for Advanced Systems, U.S. Army Aviation Systems Command, St. Louis, Missouri.

Colonel James P. Hunt, as Commander, Aviation Brigade, 8th Infantry Division (Mechanized), APO NY 09185.

Colonel Joseph W. Kuppich, Jr., as Commander, Aviation Brigade, 24th Infantry Division (Mechanized), Hunter Army Airfield, GA.

Colonel Richard J. Lundford, Jr., as Project Manager, Training Devices, Naval Training Center, Orlando, FL.

Colonel Ronald F. Massey, as Dep. Chief of Staff, VII Corps, APO NY 09107.

Colonel Melvin J. McLemore, as Commander, U.S. Army Air Traffic Control Activity, Ft. Rucker, AL.

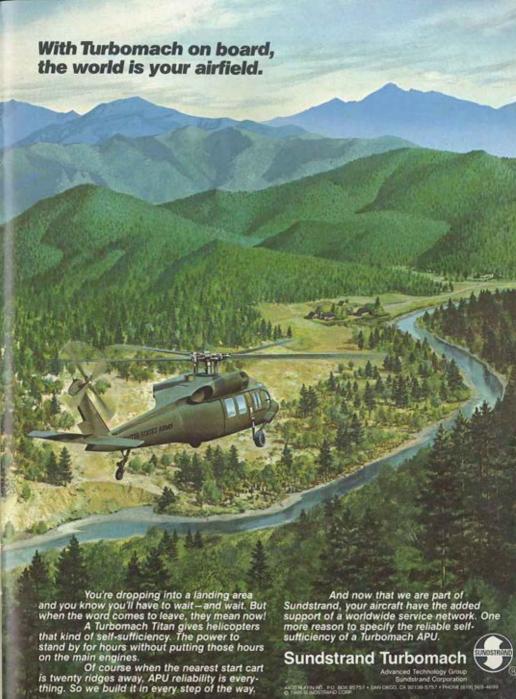
Colonel William D. O'Hara, as Deputy Commandant, U.S. Army Aviation Logistics School, Ft. Eustis, VA.

Colonel Bennett G. Owens, Jr., as Commander, USAMEDDAC and U.S. Army Hospital, Vincenza, Italy.

Colonel Norman L. St. Peter, as Commander, U.S. Army Readiness Command, Aviation Officer, MacDill AFB, FL.

Colonel Dennis P. Vasey, as Assistant Commandant, U.S. Army Aviation Logistics School, Pt. Eustis, VA.

Colonel Cary E. Williams, as Director of Resource Management, U.S. Army Aviation Center, Ft. Rucker, AL.



Industry

Sikorsky's X-Wing: A trip into the future of aviation

STRATFORD, CT — The DAR-PA/NASA/Sikorsky X-Wing Rotor Systems Research Aircraft which rolled out at Sikorsky's Stratford, CT plant on Aug. 19 features aeronautical breakthroughs which were considered near-impossibilities only a few years ago.

Now, advances in three areas — composites, computers, and circulation control aerodynamics — are enabling us to develop an aircraft which will hover with the efficiency and maneuverability of a helicopter and cruise with the high speed of fixed-wing jet aircraft.

Future X-Wing aircraft will be able to take off in rotary wing mode, then when traveling at about 200 knots, stop the rotor in an X-shaped (as viewed from above) fixed wing.

The testbed aircraft for the X-Wing rotor/wing system is one of two existing NASA/Army Rotor Systems Research Aircraft (RSRA), built by Sikorsky in the 1970s to test advanced rotor concepts.

With its 45-foot variable incidence fixed-wing which can support the full weight of the aircraft, the RSRA will allow flight testing to begin with minmal lift on the X-Wing. As testing progresses, less load will be placed on the fixed-wing and more on the X-Wing until it reaches full design lift.



A Report by Dr. Kenneth M. Rosen

Two TF-34 turbofans will provide thrust for fixed wing flight and two T-58 turboshaft engines will power the rotor/wing system.

Advanced composite materials have been instrumental in X-Wing development. Because the rotor/wing must function as both a helicopter-like rotor and as a fixed-wing, flying into the airstream at 45-degree angles

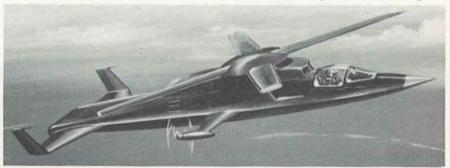
sweeping forward and aft, the blades of the rotor/wing must have great rigidity.

Each blade consists of a hollow sleeve bonded to a graphite I-beam which runs about onethird the length of the blade. Sleeve and I-beam are fastened to a bearingless titanium hub. Although extremely rigid flapwise and edgewise, the Ibeam is torsionally flexible and can be twisted mechanically to provide collective pitch control.

X-Wing's pneumodynamic system consists of a compressor, control valves, actuators, and ducts to the leading and trailing edges of the blades. The compressor feeds air into a plenum under pressure, where valves direct the air through hollow leading and trailing edges and out over the curved Coanda surfaces, providing circulation control lift.

The most critical tasks of the pneumodynamic system are to provide lift and to control vibration while stopping or starting

BELOW: An artist's concept of the X-Wing Turboprop. Twin propellers provide forward thrust while also serving as antitorque devices while in the rotary mode.



Industry

the rotor/wing. In addition, the pneumodynamic system will take the place of mechanical cyclic control devices in rotary wing operation by changing lift with blowing instead of changing the blade pitch mechanically.

Control of the collective pitch will be available in the same manner, as well as by mechanical means. Variable blowing also will substitute for flaps and ailerons in fixedwing operation.

The flight control system for the X-Wing RSRA is a full-authority, quad-redundant, digital-based system which controls the pneumodynamic, load control, and rotor/wing stop/start mechanisms, while performing traditional flight control functions with fly-by-wire technology.

Because the work of this system is far more comprehensive than standard flight control systems it is referred to as a Vehicle Management System (VMS).

The VMS's flight control computer system is one of the most powerful ever built, and allows for continued flight



even with as many as three system failures.

As an added safety measure, the RSRA is the first rotary wing craft to have a blade severance and crew escape capability. Should it become necessary, the flight test crew could pyrotechnically sever the rotor/wing blades near the hub and fly the aircraft home on the fixed wing, or eject.

The X-Wing RSRA begins its flight test program this fall

ABOVE: The DARPA/NASA/Sikorsky X-Wing makes its first public appearance at Sikorsky's Stratford, CT plant on August 19th.

at the NASA Ames-Dryden Flight Test Facility at Edwards AFB, CA. The DARPA/NASA/-Sikorsky X-Wing team is eagerly looking forward to ushering in a new era of flight with X-Wing — the shape of wings to come.

—Dr. Kenneth M. Rosen Dir., Advanced V/STOL Programs, Sikorsky Acft.

The Coanda Effect

Dr. Henri Coanda, a Romanian-born scientist, discovered the effect while conducting experiments in 1910.

The effect, simply stated, allows that streams of air forced over a curved aerodynamic surface will follow the contour of that surface, entrain the surrounding air, and provide lift.

Scientists theorized that the Coanda effect could be used to make cylindricalshaped rotors provide lift for fixed-wing aircraft. This design was later modified to a more convential looking wing-like cross section.

In 1976, Robert M. Williams of DARPA introduced the concept of the X-shaped wing which would employ circulation control aerodynamics on one rotor/wing, thus eliminating the need for two separate means of lift.

In Feb. 1983, after extensive studies, DARPA and NASA jointly awarded a development contract to Sikorsky.

Operations

The 210th Combat Aviation Brigade: The Bolivian connection

PANAMA — Few aviation organizations have the variety of missions, environmental conditions and frequency of deployments as does the 210th Combat Aviation Battalion, stationed at Ft. Kobbe, Panama.

As the only permanently assigned Army Aviation unit in Central or South America, it is called upon to perform many unique and challenging roles throughout the region.

The battalion is part of the 193d Infantry Brigade and includes five subordinate units, each with its own unique mission: HHD (2 C-12, 1 U-21), the 114th CSAC (15UH-60), 320th GSAC (14 UH-1, 8 OH-58, 8 CH-47), 590th TAMC (1 UH-60), and 214th Med Det (6 UH-60).

This 534-man battalion with its 55 aircraft of six different types provides aviation support to both the Brigade and to the U.S. Southern Command (SOUTHCOM).

The 193d Infantry Brigade is unique in itself, having eleven battalions, no two of which alike. These battalions each play a special role in the overall missions of the brigade and SOUTHCOM throughout Central and South America.

For example, the 536th Engineer Battalion has been tasked with three major road building/repair missions in both Panama and Costa Rica throughout the past year. Aviation support to the 536th has included

TDY on-site aircraft to haul heavy construction materials and equipment, personnel, and medical evacuation of injured.

The Jungle Operations Training Center program of instruction includes air assault operations, rappelling and stabo. Both UH-60's and UH-1's share these training opportunities over the combined jungle and water environments. The 2/187th Infantry Battalion and 3/7 Special Forces use the 210th CAB to conduct airborne jumps with UH-1's and CH-47's. Artillery transport using CH-47's is conducted with B/22 FA.



A Report by Lieutenant Colonel Michael H. Abbott

By now you're saying "So what, everybody does these things!" And so they do. The mission of SOUTHCOM and its use of aviation is really what puts the 210th to the test and gives AAAA reason for naming her Outstanding Aviation Unit of the Year for 1974, 1984 & 1985.

A major SOUTHCOM mission is to enhance US relations with our Latin neighbors. One means of doing this is through civic action programs such as Medical Readiness Training exercises (MEDRETE) in which teams of doctors, dentists, and veterinarians are flown to small villages, islands and other remote locations for several

days to meet local medical needs.

These are currently being conducted on a monthly basis and may be of a small scale requiring just one UH-1 or UH-60 or may necessitate upwards of two CH-47's. Other civic action programs may involve the engineers in a variety of construction projects using aviation support.

Combined joint military training exercises are another means of providing positive interface in the southern hemisphere. The 210th, along with other Army, Air Force and Navy units, has participated in such exercises in Bolivia, Ecuador and Honduras thus far this year.

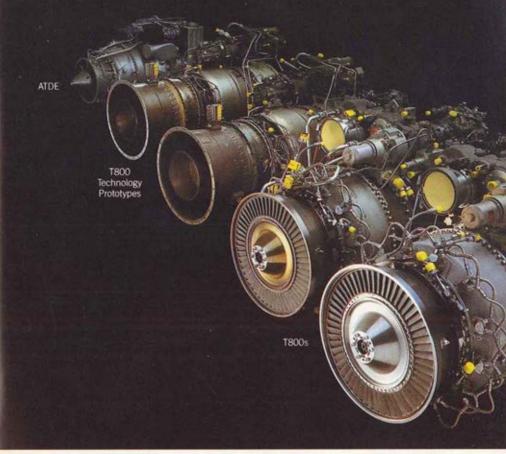
Additional exercises scheduled for Peru and Colombia were planned but later cancelled. Interchange between our pilots and those of the host countries provides important and long lasting influence.

Kindle Liberty is a combined joint training exercise conducted in a different area each year within Panama and includes both Panamanian and U.S. forces of each of the services. Kindle Liberty '86 resulted in over 1100 flying hours by the combined support of the 210th CAB and B/82d Aviation Battalion from Ft. Bragg.

Disaster relief operations are no stranger to the 210th. Earthquakes and volcanic eruptions have led to JCS/SOUTH-COM - directed Army aviation deployments to provide help.

The most recent of these involved eight UH-60's (two were

THE LOOK OF LHX LEADERSHIP.



We have a history of being ahead.

We formed the first LHX team, combining experience from the U.S. Army's ATDE Program with the latest in F109 technology.

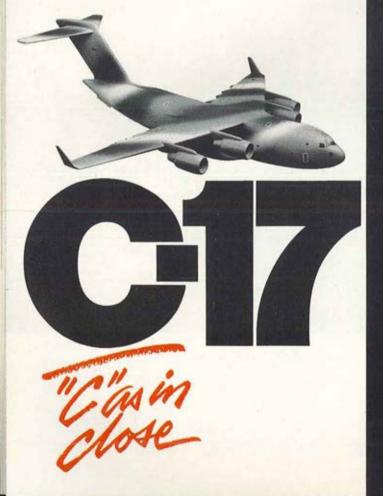
We ran and flew the first LHX demonstrator engine. Flew the first LHX candidate full-authority digital electronic control. Tested the first two T800 technology prototypes. Demonstrated oil-loss and sand ingestion capability. And now, we're the first to run the T800 at rated power. Ahead of schedule.

We're building upon an impressive base. 12,000 component/rig test hours and 8,000 hours of T800 power class testing since ATDE. Infusing new technology every step of the way.

LHTEC. Demonstrating a commitment that shows.



Allison & Garrett America's LHX Propulsion Team.



NEW AIRLIFTER DESIGNED TO FLY DIRECT TO THE FRONT.

The C-17, now in development, is designed to fly military cargo routinely from the U.S. directly into combat zone airstrips as short as 3,000 feet.

With this short-field capability, plus exceptional ground maneuverability, all Army and Marine Corps battle gear the biggest tanks, artillery pieces, even helicopters—will move in a rapid, sustained flow right to the fight.

The C-17-it's the fastest way to deliver the goods.

MCDONNELL DOUGLAS



Operations

Medevac) and four CH-47's in a self-deployment to Colombia last November and December when a volcano eruption literally wiped out the town of Armero and its 23.000 inhabitants.

Our helicopters rescued people stuck in the mud slide, transported survivors to field medical treatment sites, carried food, water and medical supplies to mountain villages isolated by the eruption and assisted the U.S. Geological Survey team in efforts to install seismographic equipment around the mountain.

More than one UH-60 crew found out from personal experience that their aircraft still had hover-in-ground-effect power when landing on a 17,000 foot mountain top!

Support to the Navy has become a frequent event for 210th crews. During the past 12 months, UH-60, UH-1 and CH-47 crews have trained on and provided support to the aircraft carrier USS Eisenhower and battleship USS lowa.

This past July opened a new horizon to the 210th when it was tasked to assist Bolivian police forces in drug interdiction operations within Bolivia. Six UH-60s were deployed via C-5 to provide air transportation to the Bolivian police in conjunction with the U.S. Drug Enforcement Agency.

Locations of suspected cocaine laboratories were developed by a variety of intelligence means. Flights of two or three UH-60s would strike one or more such targets per day. While a number of laboratories were actually discovered, the mere presence of U.S. Military forces in the region caused a severe slowdown in cocaine production and export from Bolivia.

As of this writing, anti-drug operations are still continuing. An aviation assignment to Panama is more than just a PCS. It's an international adventure.

—LTC Michael H. Abbott Commander, 210th Combat Aviation Battalion



WANTED: APACHE PILOTS!

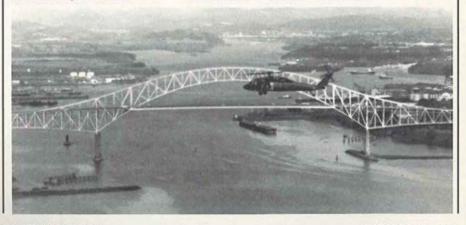
The United States Army needs operators for the most advanced Attack Helicopter in the world, the AH-64 APACHE.

Highly motivated AH-1S Aviation Warrant Officers in the career status (waiverable with command recommendation and MILPERCEN approval) should submit DA Form 4187 to:

USA MILPERCEN ATTN: DAPC-OPW-AV 200 Stovall Street Alexandria, VA 22332-0400

Or contact CW4 Euel Henry, Autovon 221-7835/7836.

BELOW: A UH-60A BLACK HAWK of the 210th CAB flies past the Bridge of the Americas while crossing over the Panama Canal.



Personnel

The Warrant Officer Division: MILPERCEN fields the pilots

ALEXANDRIA, VA — Maintaining an active duty aviation warrant officer force of almost 7,000 people, moving them to meet requirements worldwide, providing them proper professional development, and satisfying the innumerable personel actions they generate is the routine - but never dull- job of Warrant Officer Division.

In the year since I last reported in Army Aviation, things have been far from routine.

Hopefully we have done a creditable job in meeting our routine responsibilities, because our effectiveness has a direct and measurable impact on the combat readiness of the Army today.

Fielding the AH-64 APACHE attack helicopter is among the most important tasks facing the Army in 1986. By print date two battalions at Ft. Hood will have converted and Task Force 1-112 at Ft. Rucker will have activated.

Many more battalions are scheduled for conversion or activation in the coming years. Each battalion will have 46 warrant officers of which 35 must have APACHE skills.

Getting those skills (aircraft qualification and instructor, armament, and maintenance training) in time to meet activation dates is a tremendous task. The most inhibiting factor is to schedule AH-1 COBRA aviators through the various

training courses (months before actual activation dates) while trying to avoid an unacceptable impact on the missions of the COBRA units. Battalions must continue their missions until 90 days before APACHE conversion.



A Report by Colonel Joel H. Hinson

Much of the required training has to be programmed far greater than 90 days prior to conversion. MILPERCEN, III Corps, the Apache Training Brigade, and converting battalion personnel managers have jointly pieced together a rather complex puzzle that accomplishes the required training but does not render the COBRA units incapable of mission accomplishment.

Most, but not all decisions have been universally applauded. Most importantly, qualified aviation warrant officers are being made available for this crucially important fielding effort.

Although UH-60 BLACK HAWKs have been in the Army for several years, sustaining the using units with qualified operators is a tremendous challenge. The lengthy aircraft grounding in 1985 and the shorter one in 1986 made the task even more difficult.

Lost training seats effective-

ly cost the warrant officer corps 300 BLACK HAWK aviators by denying us the ability to train new aviators to replace losses and meet authorization increases. Overcoming such an impact is a difficult chore, but we do see a ray of light at tunnel's end.

Our major effort, until we overcome, the shortages is to balance the requirements of the training base to produce new pilots and instructors with the requirements of using units with critical, real world missions. APACHE and BLACK HAWK have been the most visible of the force modernization programs with major personnel support impacts. There are others.

The buildup of the CH-47D aviator inventory continues. AHIP requirements are rapidly increasing. Unit moves are occurring and there are two new divisions to support. Organizational changes caused by new authorization documents continue. All of these events will certainly enhance Army Aviation's contribution to the combined arms team and WO Division is proud to be a part of it. We are committed to the best support possible.

Managing the aviation warrant officer force is a tremendous task requiring a great deal of knowledge, ability, and willingness for old fashioned hard work. The WO Division will continue to meet the challenges in fine fashion.

-COL Joel H. Hinson Chief, Warrant Officer Division, MILPERCEN

R&D

MAMP: The key to long-range Army R & D planning

ST. LOUIS, MO — "People don't plan to fail, they just fail to plan."

It is amazing how the truth of this old and well worn quotation continues to plague the R&D world.

In the AVSCOM Directorate for Advanced Systems, longrange planning is our lifeblood. Due to uncertainties in the nature of the future threat, solid, long-range planning is necessary to yield a well developed and flexible technology base.

Experts feel it is primarily through technological superiority that an advantage can be maintained over a numerically superior threat force. Only through a program of close, continuing coordination between the combat and materiel developers can this planning process achieve the desired results.

The Mission Area Materiel Plan (MAMP) process was jointly established in 1984 by AMC and TRADOC to systematically address the user's deficiencies and propose materiel solutions in a timely manner.

In order to understand how the MAMP process fits into the Army's long-range planning, it is necessary to provide a little background on our planning evolution.

Army Mission Area Analysis (MAA) is a series of integrated

studies which assess the capabilities of Army forces to successfully accomplish tasks on the AirLand Battlefield of the future.

The MAAs identify deficiencies in each of the TRADOC Mission Areas (MA), evaluate technological opportunities, and propose corrective actions in the areas of doctrine, organization, training, and materiel. The completed aviation MAA is submitted by the Aviation Center and School through the integrating center to TRADOC.



A Report by Gary L. Smith

From all the MAA data submitted, a prioritized list of deficiencies on the tactical battlefield will evolve and form the Battlefield Development Plan (BDP). The MAMP process is geared to respond to the BDP deficiencies.

Before suggesting the materiel fixes, the TRADOC MA proponent identifies possible doctrinal, organizational, and training solutions to these deficiencies. The 1986 MAMP process constitutes a major overhaul of the initial year.

First, the basic analysis was divided among the thirteen TRADOC mission areas instead of the seven DA mission areas. Secondly, the 1986 MAMP has a requirement for a multi-appropriation analysis: RDT&E, APA, O&MA, and Military Construction Account (MCA).

The planning process has been split into the Budget Review in the February-June time frame, and the Program Review in the July-September time frame.

The MAMP-B Review (Budget) concentrates principally on the analysis of two years: Budget and Program. The purpose is the final verification of the Budget year submission (1988) and fine-tuning of the Program year projections.

The MAMP-P Review (Program) concentrates principally on the analysis of the subsequent years, the program Objective Memorandum (POM) years (1989-1993) and the Extended Planning Annex (EPA) period (10 years following the POM).

The purpose is to verify the prioritization in accordance with the deficiency analyses and the executability of funded programs in accordance with MA strategies.

A single automation package is also being implemented for all mission areas accompanied by uniform guidance; standardization can thus be achieved which is essential for cross mission area analysis and integration of all mission area data.

Deficiency analysis is a never-ending exchange of information between the TRADOC proponents and the AMC major subordinate commands



HOW TO CUT EIGHT HOURS OF MISSION PLANNING DOWN TO 30 MINUTES.



Every military pilot knows the drill: The charts, checkpoints, weather, fuel calculations, defensive system analysis. And especially the hours it takes.

Now there's a better way. Our computer-based Military Aircraft Planning System lets aircrews plan every aspect of a combat or training mission anywhere in the world in a fraction of the time previously required.

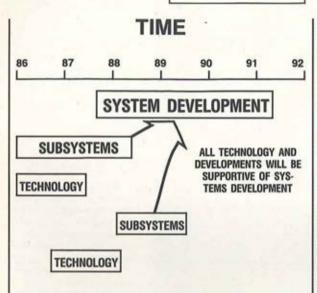
The reference data needed is in the computer. Interactive color graphics show basic geography with contours and population centers; navigation aids, corridors and checkpoints; even hostile defenses with radar terrain masks. As the mission planner develops the route, he gets a comprehensive analysis of his aircraft's performance, necessary navigation information, and an evaluation of the plane's ability to penetrate. Within minutes he can revise the route to minimize exposure to hostile defenses.

The system not only cuts hours off planning time, it can cut attrition rates as well. Operational simulations in Europe predict a 31% increase in mission success with the system.

The Military Aircraft Planning System. We've needed it for a long time, and now it's here. It's ready to improve our training and our ability to fight and win.

MCDONNELL DOUGLAS

McDonnell Douglas Astronautics Company, Mission Planning Systems, P.O. Box 516, St. Louis, Missouri 63166, Tel: 314-233-0478



and laboratories. Perceived deficiencies are identified to the materiel developer early on in the MAA process.

The deficiencies, grouped by MA, are distributed to the materiel and combat developers. The materiel developer identifies proposed solutions immediately after receipt of the deficiency statements.

This process requires periodic review/update since there may be many proposed solutions and an evaluation must be made of the value of each system in solving the deficiency. The result of the analysis will be deficiency satisfaction, the joint determination as to the percentage of the deficiency resolved.

This planning process is the key to aviation's future. The MAMP will insure that technology and systems are developed to meet field requirements, and, at the same time, eliminate costly unwarranted duplication and proliferation of technology for which there is no home.

The schedule shown here shows how technology and subsystem developments have to be aligned to support major systems developments. Even though the aviation developer and user were always well coordinated, this process ties us together even more closely.

The process insures that our R&D efforts will mature in time for incorporation into our future developments, such as the Advanced Cargo Aircraft and the Future Attack Aircraft.

Army Aviation's vigorous efforts in research and development will make these systems a reality.

—Gary L. Smith, Director of Advanced Systems, AVSCOM

Propulsion Lab tests new engine designs for economy

CLEVELAND, OH - Now that AVSCOM has selected the contractor teams (AVCO-Pratt & Whitney and Allison-Garrett) to develop the 1200 horsepower T800 engine for the LHX helicopter, the latest propulsion technology is in place. The competing designs are derivatives of earlier Advanced Technology Demonstrator Engine (ATDE) programs conducted by the Aviation Applied Technology Directorate. These demonstrators have proved their value by minimizing risks in design, performance, and integration before committing resources to costly full-scale development and qualification.



A Report by John Acurio

Similar programs, started in the late 1960s, gave us the General Electric T700 engine for the BLACK HAWK and APACHE. More recently, the Modern Technology Engine (MTE) at 5000 horsepower, was pursued in a joint Army-Navy program with GE and Pratt & Whitney.

With these engines available, the Army has established a range of single and multiple engine options that satisfy nearterm needs.

neeus.

Beyond this decade, further leaps in technology (Propulsion XXI) are in store for engines and transmissions. From the early 1950s, enormous gains have been made in turbine engine performance and weight, but the amount left to be gained is diminishing.

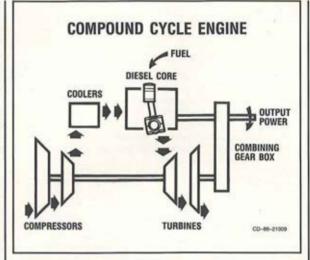
From here on, programs must emphasize new metallic and non-metallic high-termperature materials, and we are considering other forms of propulsion, as well.

One option for the future might be the Compound Cycle Engine (CCE). The concept is not new, having been demonstrated by the British in 1952, at a time when turbine engines began rapid acceptance and growth. Called the Napier Nomad, and it has remained the most fuel efficient aircraft engine ever built.

For the last three years, we have been working on our own version of a CCE. Although it will be heavier than its gas turbine counterpart, its fuel consumption will be at least 30% lower — a huge gain!

For missions that exceed an operating time of one hour, the difference in engine weight will be more than compensated by the fuel savings, opening opportunities for a wide range of applications.

As shown in the schematic, familiar features of a gas turbine (compressor and turbine) are retained, and in place of the combustor is a small, high-speed Diesel core, whose output is combined with that of the turbomachinery through compound gearing, hence the



name, Compound Cycle Engine.

To establish it as an option, emphasis is being directed toward the reciprocating components for demonstrating a core of flight-weight design.

Another major program is the Advanced Rotorcraft Transmission (ART) technology demonstrator, aimed at providing industry with an opportunity to incorporate many component advances (from government laboratories and industry IR&D) into a design that will extend service life while reducing noise (-10dB) and weight (-25%).

We are breaking with tradition, and we recognize that the airframers need more lead time on new transmissions to run the hours and make the fixes before committing their new approaches to a design.

the turbomachinery through compound gearing, hence the ces have not reflected the

same early attention given to engines; therefore, the gains have been slow to materialize.

One issue is that each airframer's transmission is so vehicle specific that one does not fit all, and the cost for a technology demonstrator tailored to each new helicopter model would be prohibitive.

Instead, we have chosen to pursue a generic course that will permit all of the majors to incorporate new concepts in a next-generation design, but they must share the cost to reach the goals.

The path ahead for Propulsion XXI is intended to jump past evolutionary development. At a minimum, we will expand the choice of options available for the next round of new systems to follow LHX.

—John Acurio
 Director, Propulsion
 Directorate, ARTA

Reserve Component

Centralized training: The Eastern ARNG Aviation Training Site

FT. INDIANTOWN GAP, PA — Since July 1983, the Eastern Army National Guard Aviation Training Site (EAATS) has been conducting Department of Army-directed individual aircrew member training in aircraft systems that are unique to, or found primarily in the Army National Guard (ARNG).

EAATS was established to remove a substantial amount of individual training being done by ARNG Aviation Units throughout CONUS, Puerto Rico, and the Virgin Islands.

All of the aviation flight programs conducted at EAATS are courses that have been approved by the National Guard Bureau (NGB) and reviewed by the Aviation Center at Ft. Rucker. Rucker's Directorate of Evaluations and Standardization (DES) provides quality assurance by having a NGB-staffed branch co-located at the EAATS.

Flight evaluations for instructor pilot courses are conducted by the DES. They also conduct periodic evaluations of all EAATS instructor pilots.

The EAATS is organized into a Command Section and five branches with a total of 15 officers, 31 Warrant Officers, and 26 enlisted personnel. EAATS is entirely staffed by personnel in an Active Guard/Reserve (AGR) military status.

It's branches are Operations and Training, Medical Services, Rotary Wing, Fixed Wing and

Simulator and Instrument.

During FY 1986, the EAATS Rotary Wing Branch conducted courses in:

 UH-1 Terrian Flight Qualification, Night Vision Goggle (NVG) aviator and NVG instructor pilot qualifications.

 OH-58 aviator qualifications, terrain flight qualification, aeroscout, NVG aviator and instructor pilot qualifications.



A Report by Colonel Kenneth D. Rhoades

 OH-6 aviator qualification, instructor pilot, and aeroscout qualification.

 CH-54 aviator qualification, and instructor pilot.

EAATS' Fixed Wing Branch during FY 1986 conducted aviator qualification courses in the U-21 and U-8, and instructor pilot courses in the U-3 and U-8.

A UH-1H Flight simulator became operational at Ft. Indiantown Gap in October 1977 to support all aviators within 200 miles of the facility, the only one operated by the ARNG.

In FY 1986, EAATS' Flight Simulator & Instrument Branch conducted courses in rotary wing instrument qualification, instrument flight examiner refresher, and instrument flight examiner preparatory in the UH-1H FS. The EAATS' Flight Simulator is utilized for 7700 pilot hours per year, and in FY

1988, an AH-1 Flight Weapons Simulator will come on line at the site for formal courses and regional support for more than 400 COBRA aviators.

Formal flight courses for 493 students were conducted by EAATS in FY86. 371 students graduated from the ARNG Aviation Mishap Prevention Orientation Course. This course, developed by the NGB Aviation Division's Safety Branch and conducted by EAATS, is designed to increase officers and NCO's awareness of safety procedures and describes the primary safety responsibility of the individual.

The NGB has positioned a second ARNG Aviation Training Site (Western) at Marana, AZ, and will begin training attack and observation helicopter pilots in FY 1987.

Combining Ft. Rucker's Aviation Center, two ARNG Training Sites, and 87 Army Aviation Support Facilities located throughout CONUS, Puerto Rico and the Virgin Islands, U.S. Army Aviation mission training has reached a high state combat readiness.

The ARNG, with 5,200 aviators in 172 units flying 300,000 hours in 15 different aircraft annually, makes up a significant segment of the total Army's combat power. Working together with the active components, individual states, territories and the District of Columbia, the ARNG Aviation Training Sites are truly training for excellence.

COL Kenneth D. Rhoades
 Cdr, Eastern ARNG
 Aviation Training Site

Survivability

Aviation Life Support Equipment on the move

ST. LOUIS, MO — Aviation Life Support Equipment (ALSE) is something an aviator hopes he/she will never have to use. It is equipment that is needed in those situations in which you hope you never find yourself. It is equipment that's needed after all other systems have failed and you're in an emergency situation.

ALSE must not fail and has to work right the very first time. If it does not, injury or loss of life will most likely result. That is why ALSE is so critical to an aviator and why it must be cared for properly.

At our first ALSE symposium, COL (P) Robert Stewart, Army Astronaut, gave an interesting, informative talk on a typical space mission. He emphasized the importance of life support equipment in that program, and related that importance to Army Aviation life support equipment.

COL Stewart emphasized the importance of good engineering design in ALSE. A piece of ALSE must provide protection, be as comfortable as possible, and interface well in which the aviation system it will be used. If it does this, it will save your life (when properly maintained and used).

MG Richard E. Stephenson, Commanding General of AVSCOM made the welcoming address of the ALSE symposium, and he too emphasized the importance of ALSE. He pledged his support to this critical area in aviation, pointing out the need to be able to operate Army helicopters in all conditions on the integrated battlefield.

A 15 million dollar aircraft is of no value if the crew members are not protected to operate that system. A chemical/biological (CB) environment or hazards such as lasers, are a reality on the battlefield of tomorrow.



A Report by Lieutenant Colonel Dick Griffin

MG Stephenson's challenge to AVSCOM is "Think War". By this he means we all must do our jobs to insure that our aviators are ready to go to war.

That is where the ALSE Product Manager's Office fits into the picture. Our R & D Division, headed by Dick Bee. develops protective systems to allow aviators to operate in CB and other conditions on the battlefield. The most significant item recently developed is the XM-43 CB protective mask. The mask was developed by the Chemical Research Development Engineering Center (CRDEC) and ALSE Research and Development Division specifically to interface with the AH-64 APACHE Attack Helicopter.

This mask will do that and much more. It is much more comfortable than other masks and provides higher levels of protection because of its blown air design. It has done so well throughout its testing and been so well accepted by aviators that it has been designated to become the general aviator CB mask.

We have several other systems in various stages of development. We are working on a new helmet system (HGU-56) to replace the SPH-4. This helmet will be lighter, provide more crash protection, provide laser and flashblindness protection and be much more comfortable.

There is also the new CB ensemble we have been working on with the Natick Research Development Engineering Center (NRDEC). It consists of the new Aviator Uniform Integrated Battlefield (AUIB) CB flight suit, CB gloves and CB boots.

This CB ensemble, with the XM-43, will be used with the microclimatic cooling vest. The microclimatic cooling will eliminate heat stress and allow operations in CB environments for extended periods. We are looking forward to getting these systems and others fielded as soon as possible.

Our Logistics Readiness Division headed by A.B.C. Davis, Jr., is working with our R & D Division to insure logistic support of newly fielded systems. (ALSE — Cont. on Page 48)

Test & Evaluation

Not waiting for the failure: USAAVNDTA acid-tests equipment

FT. RUCKER, AL — Just what we need — another acronym. FSP (Flight Safety Parts) will become increasingly familiar to those associated with Army Aviation, especially those in the development community.

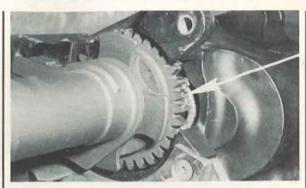
"We can't wait for an aircraft to crash and kill a lot of people to find out a part did not achieve its calculated service life."

With these words, the Vice Chief of Staff of the Army initiated a new safety and quality control program for Army Aviation. AVSCOM has the responsibility to carry out this program; however, the U.S. Army Aviation Development Test Activity (USAAVNDTA), with its unique capabilities, has a significant role to play in program execution.



A Report by Colonel Lawrence L. Karjala

The first step initiated by AVSCOM was to identify each component on Army aircraft whose failure could result in catastrophic consequences. AVSCOM accomplished this in a coordinated effort between the PM's and their prime aircraft manufacturers.



Critical parts have been identified for each aircraft expected to be in the Army inventory in the 1990's. These lists are not locked in concrete, and new critical parts will be added or deleted as experience and analysis dictate.

The AVSCOM flight safety parts surveillance program takes on a multi-faceted approach. At established time-inservice intervals, FSP will be drawn from various field units experiencing a wide range of climatological and operational conditions.

These parts will then be analyzed through a variety of procedures appropriate to the specific FSP in question: teardown and visual inspection, other nondestructive inspections, destructive inspections, and fatigue testing (to determine remaining service life).

The USAAVNDTA has historically conducted reliability and logistical evaluations for aircraft both prior to and following system fielding. USAAVNDTA testing typically follows an accelerated flying

ABOVE: An example of LTF Testing Results. Note the sheared teeth on this AH-64A index timing gear. Procedures were corrected prior to fielding.

schedule which causes the test aircraft to lead the fleet in flight-time and experience.

This concentrated flight schedule is not simply a matter of "boring holes in the sky"; specific profiles are flown to replicate as closely as possible actual field use. Specific percentages of total time are flown at maximum gross weight; NOE; cross country, hover OGE and IGE; with internal and sling loads; all mission equipment operating; weapons firing and so on.

Lead-the-Fleet (LTF) testing, especially on early production aircraft, historically has identified problems early, usually before they manifest themselves in the fielded fleet. This allows PM's to make appropriate modifications to future production aircraft, buy more (or fewer) spares than originally planned, or develop new operating procedures. LTF testing results can significantly re-



The Collins CP-ISI6/ASQ Automatic Target Handoff System (ATHS) helps ensure clear, quick, C³I communications. It facilitates air/air and air/ground interoperability, and provides target steering cues on HUDs or CRT displays.

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

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

NEVER SAY 'SAY AGAIN' AGAIN. COLLINS ATHS.



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

Now flying on U.S. Army OH-58D and AH-64s, the 101b. Collins ATHS can be easily integrated into aircraft and ground vehicles. And it's interoperable with TACFIRE and the Battery Computer System.

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

COLLINS AVIONICS



...where science gets down to business

Aerospace / Electronics / Automotive General Industries / A-B Industrial Automation

Test & Evaluation

duce life-cycle operating costs and increase safety.

Additionally, LTF testing is valuable for new/modified major aircraft components or systems such as ESSS for the UH-60, composite main rotor blades for the UH-1, etc.

The USAAVNDTA currently has Lead-the-Fleet RAM/Log evaluations on-going for the CH-47D and AH-64A. The AMC Commander recently directed that LTF testing be accomplished on all aircraft expected to be in the inventory in the 1990's. These LTF aircraft are well suited to support FSP testing, and all FSP on them will be specifically monitored by USAAVNDTA.

Throughout its tenure as the aviation development tester for the Army, the USAAVNDTA has developed considerable experience with part/component teardown using visual and other NDI techniques to evaluate wear progression and other failure modes.

Selected FSP, particularly those from the LTF aircraft, at AVSCOM discretion, will be evaluated at the USAAVNDTA. Data from all sources will be forwarded to AVSCOM for consolidation and action.

More is planned. AVSCOM is looking at Flight Data Recorders; not simply crash-survivable ones (after the fact), but recorders that continously record a wide range of parameters which can be used to diagnose problems and predict impending failure. A first-generation recorder will be installed in a USAAVNDTA AH-64A in the very near future to demon-

strate the information that can be made available as well as practical utilization of the data.

As Army Aviation systems become increasingly sophisticated and expensive, the methods to examine and improve reliability and especially safety must evolve to keep pace. The FSP program is one means by which the Army Aviation development community is doing just that.

—COL Lawrence Karjala
 Cdr., U.S. Army Aviation
 Development Test Activity

From the mountains to the desert floor: USAAEFA has it all

EDWARDS AFB, CA — The U.S. Army Aviation Engineering Flight Activity (AEFA) constitutes an important part of the Army Aviation Research and Development team.

AEFA, co-located with the Air Force Flight Test Center at Edwards Air Force Base in the Mojave Desert, is one of several flight test arms of the Army. The primary flight test responsibility for AEFA is determination of the airworthiness (handling qualities and performance) of the Army's new or modified aircraft.

Ideal Location — Edwards AFB, chosen because of the weather, geography and its vast expanse of restricted airspace, provides excellent flight test conditions during the entire year. The proximity of Edwards to the mountains and the low desert means that elevations ranging from 12,500'

feet above to 35' below sea level are only a short flight away.

In addition, Southern California is a major aeronautical research center in the United States, making valuable professional resources available to AEFA.

It is at Edwards that the experimental test pilot becomes part of a dedicated and highly specialized team of flight test engineers, technicians and numerous support personnel to accomplish the difficult and challenging task of testing and analyzing aircraft performance and handling qualities.

Air-to-Air Combat — AEFA doesn't conduct flight test in a vacuum. Tests are done to provide increased combat readiness to the field. One good example is recent air-to-air combat tests.



A Report by Major Rickey C. Simmons

What capability is required for a helicopter to be successful in air-to-air combat? AEFA has conducted many flight tests in an attempt to define some small pieces of this complex puzzle. In 1984, AEFA test pilots flew an AH-1S as part of the Air-to-Air Combat Test (AACT) II at Patuxent River, Maryland. This was sponsored by the Aviation Applied Technology Directorate (AATD), (T & E — Cont. on Page 48)

ESSEX . . . making MANPRINT a reality

For the last 17 years, Essex Corporation has worked in human factors engineering, system design, training, personnel selection, test and evaluation, and safety analysis — all components of MANPRINT.

Today we're applying those techniques, along with analytic models for manpower forecasting, to preliminary system design for a successful MANPRINT program.

For more information, call Larry Durham, Corporate Director of Marketing.



333 North Fairfax Street Alexandria, Virginia 22314

(800) 368-3533



Needs Good INFORMATION ... COBRO delivers

Data Collection, Automation, and Prediction Methods for:



Concept • Test • Appraisal Operations • Maintenance

Professional Employment Opportunities, Send Resume to:

COBRO Corporation
11510 Georgia Avenue, Wheaton, Maryland 20902 (301) 933-6950
Equal Opportunity Employer

Crisis Response (Cont. from Page 2)

that we will respond when our friends are threatened.

More recently, the concern and commitment of the United States was displayed by a small group of U.S. Army aviators in Bolivia in support of its battle against the growing and destabilizing drug trade. In response to a request received from the Government of Bolivia and in coordination with other U.S. agencies, six U.S. Army BLACK HAWKs were dispatched to Bolivia from Panama by the 210th Combat Aviation Battalion. Within days the UH-60's were transporting members of the Bolivian police UMOPAR, a special anti-narcotics strike force, in raids against cocaine production laboratories.

The Bolivian Strike Force

Regarding the effectiveness of these six helicopters, I should point out that during their first month in Bolivia, they had been the key element in totally disrupting coca leaf production there. The Bolivian Strike Force, with aviation assistance, was extremely successful in finding and destroying labs. Also, the drug traffickers decided that the speed, mobility and capability of the U.S. Army Aviation Task Force combined to create an opportune time to go out of business. at least temporarily. As a result, coca paste production in Bolivia virtually came to a halt. The price of the coca leaf, which is legally produced in Bolivia, dropped from the former going rate of \$125 per hundredweight to the current price of about \$20 per hundredweight, well below the cost of production.

Army Aviation is also central to the U.S. Southern Command's newly developed Emergency Medical Response Team (EMRT) which was created to deploy anywhere in Latin America to respond to life threatening natural or manmade disasters. The EMRT and its concept was exercised in Costa Rica earlier this year during a simulated earthquake, providing valuable experience. The exercise demonstrated that mobility is directly related to success and confirmed our preparedness and ability to carry out this mission.

Latin America is a complex and changing area. While democratic pluralism is now the norm rather than the exception, the countries of the region are still challenged by enormous national debts, faltering economies, insurgencies fostered by Fidel Castro, and drug trafficking which has reached astounding proportions. The new democracies in Latin America need the support and encouragement of the United States in order to succeed against these challenges.

The role of Army Aviation will continue to grow in importance, in Latin America as well as in other areas of the world. The U.S. Southern Command (USSOUTHCOM) area of operational responsibility, for example, encompasses an area consisting of close to twenty percent of the earth's landmass. From the geographic viewpoint, the small numbers of Army aircraft operating in the theater would give no hint of the true significance for the Command or for Latin America.

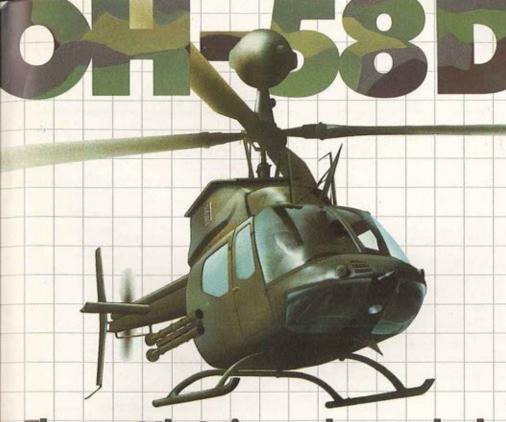
A key force in Latin America

The majority of the Army aircraft in the USSOUTHCOM region operate from the Republic of Panama in support of the USSOUTHCOM's Army Component, the 193d Infantry Brigade (Panama), the only major U.S. Army unit in Latin America. A smaller number, on temporary duty from CONUS bases, operate in support of Joint Task Force Bravo in Honduras on a continuing basis with occasional increases in numbers during major exercises.

Army aviators have been and remain key participants in U.S. activities in Latin America. In numerous joint and combined exercises every possible use has been made of them — from air reconnaissance to rescue missions, from command and control to recovery and evacuation, as well as transporting troops, equipment and supplies. They have enhanced military-to-military as well as country-to-country, relationships, demonstrating not only their own intrinsic capabilities but their professionalism and dedication.

The 210th Combat Aviation Battalion in Panama has won the coveted Army Aviation Association of America Outstanding Aviation Unit award three times (1974, 1984 and 1985), attesting to the caliber of Army aviators operating in Latin America.

Army Aviation has earned an image of professionalism, compassion, supportiveness and strength in this part of the world. The members of Army Aviation's team are welcomed and appreciated by leaders throughout Latin America as key players in future crisis operations. IIIII



The scout that gives a close-up look at multimission versatility.

OH-58D: the scout that "looks" for trouble from incredible distances ... for a variety of U.S. Army missions.

Attack team: The OH-58D works with attack helicopters. Laser designators help AH-64 Apaches send Hellfire to the target. And put laser energy on TOW missile targets for handoff to the AH-1S modernized Cobra.

Field artillery: Quickly, the OH-58D sights stationary and moving targets for precision-guided munitions or conventional ammunition. Result: fast, accurate engagement.

Air cavalry: The OH-58D's day/ night eye covers the battlefield. For reconnaissance. Surveillance. Target acquisition. And it adds a precious commodity to the effort: speed.

Its performance exceeded Army demands. Its components are proven. And its backed by the world's best service and support.

For more information, call or write Military Business Development, Bell Helicopter Textron Inc., Dept. 680, Box 482, Ft. Worth, Texas 76101, U.S.A. (817) 280-2288. Telex: 75-8229. Cable: Bell Craft.

Bell Helicopter TEXTRON

THE 1986 AVIATION SOLDIER DIRECTORY

Data sheets were sent to the over 1,500 enlisted members of the Army Aviation Association requesting information for the following directory. The members listed in the "Aviation Soldier" directory are those who returned their forms with more than just the basic name and address information.

INDEX

ACEVEDO, F. — CREED, D.F	39
CROUCH, T.L. — GUZMAN, F	
HACKNEY, R.L. — MASON, A.T	
MAZZA, M.A. — SANDERS, D.R	
SCHABEL, W.L. — YUSUP, C	

ROSTER CODE

Last Name, First Name, MI
(Rank)
(First AAAA Membership Year)
(Nickname)
Residence Address
City, State and ZIP Code
Duty Phone

Residence
Spouse Name
Date of Birth (Excluding Year)
PROFESSIONAL DATA:
Duty Description
MOS
AAAA Offices held

AVIATION MOSs LISTED

	AVIATION	1003 LIGITED	
35K - Avionics Mechanic 35L - Avionics Communicates Equip. Repairer 35P - Avionics Equipment Maint. Spec. 66H - Observation Aircraft Technical Inspector 66N - Utility Helicopter Technical Inspector	Technical Inspector 67G - Utility/Cargo Helicopter Repairer 67N - Utility Helicoptr Repairer 67T - Tactical Transport Helicopter Repairer 67U - Medium Helicopter Repairer 67V - Scout/Observation	67Z - Aircraft Maintenance Senior Sergeant 68D - Aircraft Powertrain Repairer 68F - Aircraft Electrician 68G - Aircraft Structural Repairer 68J - Aircraft Fire Control Repairer	Systems Repairer 76C - Equipment Records & Parts Specialist 76W - Petroleum Supply Specialist 76V - Materiel Storage and Handling Specialist 76Y - Unit Supply Specialist 91A - Medical Specialist
66T - Tactical Transport Technical Inspector	Helicopter Repairer 67X - Heavy Lift Helicopter	68K - Aircraft Component Repair Supervisor	91B - Medical NCO 93H - ATC Tower Operator
66U - Medium Helicopter Technical Inspector	Repairer 67Y - AH-1 Attack Helicopter	68H - Aircraft Pneutronics Repairer	93J - ATC Radar Controller 93P - Flight Opns Coordinato
66Y - AH-1 Attack Helicopter	Repairer	68M - Aircraft Weapon	00Z - Command Sgt. Major

AAAAAAAAAAAAA

ACEVEDO, Fernando, (E4)(M85)(Ace) 47 Woodland Home Pk, Clarksville, TN 37040, Dy. (502) 798-6704. Res: (615) 431-5072. W: Mayra. B: Feb 4. Dy: A Co, 158th Avn Bn. MOS: 68H. ADAMS, Michael L., (MSG) (M83) 406 Thor St., White Sands Msl Range, NM 88002. Dy. (505) 678-3311. Res: (505) 678-3185. W: Junico. B: Feb 16. Dy: Nat1 Range Opns. MOS: 35P.

ADKINS, Robert L., (SGT) (M83) (Pugs) 7 Fairview Avenue, Waterbury, CT 06708, Dy. (203) 445-6595, Res. (203) 754-8015, B. Apr 4, Dy.CT AVCRAD, MOB Det. MOS: 68D.

ADIKINSON, Harry B., (E7) (M84) 300 Ala Moana, Room 9128, Honolulu, HI 96850. Dy. (208) 546-7311. Rex: (806) 637-5255. B. May 11. Nat'l Narcotics Border Int'diction System, Western Pacific Dist., 0DCSD/S. M05: 939-ALEMAN, Benny, Jr., (DSD)PS. M05: 939-Clarno Orive, Austin, TX 78749. Dy. (512) 280-2065. W. Isabel, Br. Aug 18. Dy. Try D 1/1/24 Cay (Alr.) V. P. & Past VP, Lone Star Chapter, ALLEN, John M., (PFC) (M86) 203rd Avn Co, APO NY 09025. W. Carol, B. Oct 20. Dy. VII Corps. M05: 677.

ARMSTRONG, Richard C., (SP4) (M82) P.O. Box 8037, El Paso, TX 79508. Dy: (915) 568-8555. Res: (915) 568-8001. B: Aug 3. Dy: G Trp., 3rd CAS, 3rd ACT, Ft. Biss. MOS: 67N.

ARNOLD, David L., (SFC) (M84) 2364 Apoepoe Street, Pearl Chy, HI 96782, Dy. (808) 655-0688. Res: (808) 455-5430. W: Pamela, B: Dec 29. Dy: 17th Asit HC, Avn Bde, 25th ID. MOS: 67T.

BBBBBBBBBBBBBBB

BAE, Jehn H., (E7) (M83) Hq. 17th Avn Gp, APO SF 96301-0043. W: Joyce. B: Jul 3. Dy: NCOIC H208 VIP Heliport. MOS: 93P. VP, Morning Calm Chapter.

BAKER, Eugene A., (E4) (M86) (Belushi) 7-a Kansas Avenue, Pt. Leavenworth, KS 66027, Dy. (913) 684-8455. Res: (913) 682-6566. W: Kelly, B: Aug 25. Dy. HHÖ, USDB, MP, BN, Sub-FE Machine Shop. MOS: 44E.

BAKER, Quentin A., (SFC) (M85) (Quint) B Co, 205th Trans Bn, Box 83, APO NY 99165, Wagner, B. May 9. Dy; QC Supvr. MOS: 67T. 6ARRINGTON, Aubrey D., (SFC) (M85) (Bear) Cobra PMR, P.O. Box 179, APO NY 99333. W: Eloise. B: Mar 26, MOS: 68K.

BATEMAN, Jon F., (SP4) (M86) (Batman) B Co, 308th AHB, APO NY 09165-1540. B: Oct 7. MOS: 67Y.

BEASLEY, Robert, (SFC) (M86) HHC 1st 10th SFG, P.O. Box 354, APO NY 09050. W: Nese. B: Dec 31, MOS: 67T.

BEATTIE, Dennis M., (CSM) (M86) (Mike) Hq, 307th AHB, R. Ord, CA 93941, Dyr. (408) 242-7601, Res. (408) 384-7627, W. Gall, B. Dec 16, MOS: 00Z.

BEDARD, Alex R., (SFC) (M85) (Rick) 1004 N.
4th St, Copperas Cove, TX 76544, Dy; (817)
287-9393, Pass; (817) 542-1863, W. Lot, B. Sep
24. Dy; HHT, 1/6 Cav, 6th CAB, MOS; 68J.
BETHEA, Dwayne, (SSG) (M82) (B) HHT, 11th
CAS, 11th ACR, Box 399, APO NY 09146, W:
Marisa, B: Dec 11, Dy; Utility Hel, TI, MOS; 66N.
BEZORE, Jeffrey, (SSG) (M86) (Beez) A Co, 1st
MI Bn (AE), APO NY 09457; W: Jean Marie.
B: Apr 13, APO NY 09457; W: Jean Marie.

BIGGERS, Sandy J., (PFC) (M86) 320th GSAC, Box 134, Fort Kobbe, APO MIA 34006, B; Dec 11. Dv: Supply. MOS: 76Y.

BINGER, Eric S, (SSG)(M85) HHC 4th Bde, APO NY 09250. W: Gabriela. B: Jul 11. MOS: 76Y. BINGHAM. Eugene H., (ISS) (M84) 2877-A Hammond Hgts, Fort Campbell, KY 42223. Dy. (S02) 798-7514. Res: (S02) 439-4134. W: Kim. B: Feb 20. Dy. B Co, 159th Ava Ba. MOS: 67Z. BLAND, Robert T., (SP4) (M96) B Co 205th Trans Bn, Box 56, APO NY 09165. W: Kimberly, B: Aug. 55. MOS: 682.

BODILY, Cecil L., (1SG) (M85) 244th CAC, Box 1756, APO NY 09250. W: Mary. B: Nov. 22. MOS: 67M.

BOESE, Ronald, (SFC) (M82) (Ron) HHT, 11th RCAS, 11th ACR, Box 15, APO NY 09146. W: Petra. B: Sep 9. MOS: 67Y.

BOYE, Guy S., (SSG) (M83) 561 Arrowhead Trail, Carol Stream, II, 60188. Dy. (312) 657-2283, Res: (312) 462-1888. W: Patricia. B: Apr 23. Dy: Maint Platoon Sgt, 305th Avn Co (CS), NAS Glenview. MOS: 67N.

BROWN, Dennis C., (E4) (M85) B Co, 394th Aviation Bn, Box 584, APO NY 09061. B: Jul 2. Dy: Maint Platoon. M0S: 67N.

BROWN, Odessie H., (SGT) (M86) 203rd Avn Co, APO NY 09025. B: Feb 8. MOS: 76C.

BUEHLER, Allen H., (SP5) (M84) (Al) 48th Avn Co, APO NY 09457, B: Dec 23, MOS: 67T. BUMBAR, Michael, (SGT) (M84) (Merc) 18827 Lenny Street, Salinas, CA 93906, Dy. (408) 242-

Lenny Street, Salinas, CA 93906. Dy. (408) 242-4286. W. Vickl. B: Aug 25. Dy. A Co, 397th Aviation Battalion. MOS: 68J.

BURGESS, Lawrence, (PFC) (M86) 9400 Abercom, Ext., Apt. 502, Savannah, GA 31406, Dy; 352-5401. Res: (912) 925-3411. W: Tamara. B: Feb 26. Dy: A Co, 24th CAB. MOS: 67Y.

BURNETTE, Bobby, (CSM) (M85) HHC, 11th Avn Gp (Ctd), APO NY 09025, W: Jonnie. B: Oct 6. Dy: VII Corps. MOS: 00Z. VP Enlisted Affairs, AAAA USAREUR Region.

BYRAM, Johnnie M., (CSM) (M81) HHD, 59th ATC Bn, APO NY 09025. W: Hein. B: Jun 26. MOS: 002. Past VP, Schwaebisch Hall Chapter. Retring 30 Oct. 86.

CCCCCCCCCCCCCC

CAIN, Earl D., (SGT) (M86) 25th Avn Co, APO NY 09061. W: Wendy, B: Aug 8. Dy: Phase Team Leader. MOS: 67N.

CAIN, Wendy L., (E4) (M86) 25th Avn Co, APO NV 09061, H: Earl, B: Oct 9, Dy: Supply Clerk, MOS: 76V.

CAMPBELL, Larry T., (SSG) (M86) 1920-C Batts Lane, Clarksville, TN 37042, Dy. (502) 798-2074. Res: (615) 647-7671, B: Dec 17. Dy: Co A, 159th Avn Bn, Ft. Campbell, MOS: 35P.

CAPPEL, Frank A., (SGM) (M86) P.O. Box 24, Pt. Sheridan, IL 60037, Dy: (312) 925-3831, Res: (312) 432-3829, B: Feb 27, Dy: Hos. Fourth U.S. Army DCST, Ft. Sheridan, MOS: 11B.

CARD, John A., (E6) (M85) (Bushy) P.O. Box 395, Hayes, VA 23072. Dy. (804) 878-6147. Res: (804) 595-6834. B: Feb 3. Dy. 1st S & F Co, ITD, DOTD, USAALS. MOS: 67N.

CARDY, Philip R., (SP4) (M86) (Flip) HHD 52nd Avn Bn, APO SF 96301. Dy. 293-3758. Res: 794-1055. W: Mar. B: Apr 2. Dy. S-3 Opns, HHD, 52nd Avn Bn. MOS: 93P.

CARLSON, Connie L., (SGT) (M86) 305 North 18th Avenue, Beech Grove, IN 46107, Dyr. (317) 835-2128 Res. (317) 786-8912. H. John. B. Jan 1. Dyr. Co E, 38th Avm Bn (Chr), 38th ID, OH-88A Mechanic. MOS: 67V.

The 1986 Aviation Soldier



CARRELL, Brett J., (E2) (M86) F Troop, 11 CAS, 11 ACR, Box 433, APO NY 09146. B: Jul 16. MOS: 67V.

CARROLL, Charles, (SP4) (M86) (Chuck) C Trp. 3/7 Cav, APO NY 09702. B: May 29. M0S; 67/7 CARVER, Richard W., (1SG) (M83) (Pops) 4708-201 Windshore Drive, Virginia Beach, VA 23455. Dy; (804) 422-7985. Rss: (804) 454-6411. B: Aug 11. Dy; 331st Trans Co (ACV), Ft. Story, VA. MOS: 67Z.

CAVE, James W., (MSG) (M86) (Cavernar) HHD 70th Trans Bn, APO NY 09028. W: Gloria. B: Dec 10. MOS: 67Z.

CHESTER, Jacques, (E5) (M85) (Jock) 191st ATC Co. APO SF 96301. B: Jan 5. M05: 93H. CHICKORY, Thomas P., (ES) (M86) (T.C.) 25th Avn Co. APO NY (9061. B: Aug 20. M05: 67N. CLARK, Steven M., (SSG) (M82) 229 Creekside Drive, Clarksville, TN 37042. Dy: (502) 798-7512. Res: (615) 553-0118. W: Gloria. B: Apr 25. Dy: TI, UH-60A, Co., 160th Tr. M05: 66T. CLEMO, John E., (SFC) (M73) PO 80x 795, Clayroot, AZ 85532. Dy: (602) 225-5509. Res: (602) 425-9755. W: Charlottle. B: Jun 30. Dy: 1120th QM Bn. M05: 628.

COCHRAN, William A., (MSG) (MS6) 2122 B Irwin St., Fort Eustis, VA 23604, Dy; (804) 878-3065. Hes: (804) 887-3255. W: Sandra, 8: Jun 1. Dy; 3rd Staff & Faculty Co, 15G, MOS: 67Z. COHILL, Larry, (SFC) (M86) 528 Cambertree Way, Newport News, VA 23602. Dy; (804) 878-615. Res; (804) 874-1715. B: Nov 2. Dy; 1st Staff & Faculty Co. MOS: 67Y.

COLEY, James L., (CSM) (M85) (Jim) HHC, Cbt Avn Bde, Fort Ord, CA 93941, Dy; (408) 242-4214. Res: (408) 384-2025. W: Norvell. B: Sep 8. Dy: 7th ID (Light), Ft. Ord. MOS: 00Z.

COLLINS, James P., (SP4) (M85) (Jim) 4849L Lee Village, Pt. Campbell, KY 42223. Dyr. (502) 796-4972. Res. (502) 439-3982. W: Hyon, B: Oct 17. Dyr. A Co., 123rd Aviation Bn, 101st Airborne Division. MOS: 67N.

COMBS, Donald C., (SGT) (M86) 308 Tartan Place, Fayetteville, NC 28301. Dyr. (919) 396-6964. Res: (919) 822-6139. W: Susan. B. Oct 6. Dyr. F. Co., 82nd CAB, Ft. Bragg, MOS: 67T. COUNEY, James T., (1SG) (M86) (Jim) HHC 2-88 AR, APO NY (90034-2176. W: Shirley, B: Oct 4. MOS: 192.

COOPER, Lynn A., (SFC) (M86) (Coop) 806 Amanda Drive, Clarksville, TN 37042, Dy. (502) 798-4787, Res: (615) 645-1372, W. Linda, B. Oct 31, Dy. HHC, 101 AB, MOS: 67T.

CORDERA, Leslie S., (SGT) (M86) 720 21st St., #4. Hermosa Beach, CA 90254. Dy. (213) 493-8445. Res. (213) 379-1375. B: Mar 14. Dy. Co A, 40th Avn Bn, CAARNG. MOS: 67N.

CORY, Teny, (SGT) (M85) 320 GSAC Box 101, APO MIA 34006. W: Marva. B: Aug 2. Dy: 210th Combat Avn Bn.

COWART, Billy R., (1SG) (M86) 6325 Kellow Dr., Jacksonville FL 32216. Dy. (904) 398-4884 Res. (904) 725-0584. W. Angela. B. Jan 13.

CRAIGIE, Glen M., (SGT) (M86) 193rd Avn Co., APO NY 09454. B: May 30. MOS: 35K.

CREED, Daniel F., (SFC) (M81) E Co. 71st 8tin Trng Bde, Ft Eustis, VA 23604. Dy: 927-3363. Res: (804) 220-2513. W: 39 Margaret. Dy: Drill Sgt. MOS: 67T. 39

C The 1986 Aviation Soldier

CROUCH, Terry L., (SFC) (M85) 55 Wake Road, Eafontown, NJ 07724, Dy. (201) 544-3554. Res: (201) 389-0951. W: Chong Ae, B: May 8. Dy: AVRADA. MOS: 93D.

CROW, John S., (SGT) (M80) 4684A Pierce Village, Fort Campbell, KY 42223. Dy. (502) 798-2233. Res. (502) 439-5685. W: Dyanna. Dy. HHC, 101st Avn Bn. MOS. 66T.

CUEVAS, Gilbert, (SFC) (M85) HHC, 223d Avn Company, APO NY 09025. W: Elke. B: Jan 10. MOS: 93P

CULP, Jeffrey R., (CSM) (M83) (Jeff) 1809 Janet Ave, Lebanon, PA 17042. Dy: (717) 865-8796. W: Bonnie. Dy: Eastern ARNG Avn Tng Site. MOS: OUZ. Treas, Indiantown Gap Chap. CURRY, Blanchard L, (SGM) (M84) (Bill) 14423 Briarledge, San Antonio, TX 78247. Dy: (314) 263-3821. Res: (512) 494-1556. W: Youn. B: Dec 2. Dy: Hg AVSCOM, OH-58D NETT NCOIC, MOS: 672.

CURTICE, Donald J., (SFC) (M85) B Co, 70th Trans Bn (AVIM), APO NY 09028, MOS: 35P.

DDDDDDDDDDDDD

DAILY, John W. Jr., (SP4) (M85) E Trp., 11th CAS, 11th ACR, Box 258, APO NY 09146. W: Annette. B: Feb 17. Dy: OH-58C Crew Chief. MOS: 67V.

DARDEN, Anteinette, (E5) (M85) (La*i) HHC, 4th Bde, Box 2627, APO NY 09250. B: May 4. MOS: 93P.

DATO, Thomas L., (SGT) (M85) 1305 Balwin Court, Dalatine, IL 60067. Dy: (312) 657-2283. Ros: (312) 356-749. B: Feb 27. Dy: 305th Avn Co. M05: 67N.

DAVIS, March C, (PFC)(M86) HHT, 11th RCAS 11 ACR, APO NY 09146, B: Mar 17, M0S: 83, DE LA CRUZ, Edwin K., (E5) (M86) 6234 Alva Circle, Fayetteville, NC 28301, B: Dec 31, Dy: 503rd Maint, Pt. Bragg, M0S: 948.

DELEON, Carlito S., (SFC) (M85) (Leto) 295th Avn Co, APO NY 09028. W: Tina. B: Dec 23. Dy: Coleman Barracks. MOS: 67U.

DENARO, Leonard, (E5) (M85) B Co, 394th Avn Bn, Box 595, APO NY 09061, B: Mar 21, Dy: Airframe Sgd Leader, MOS: 68G.

DERENDA, Robert V., (PFC) (M82) 32 Girard Avenue, Cheektowaga, NY 14227. Res: (716) 895-4192. B: Jul 27. Dyr. CSC 1/174th Inf., 42d Div USARNG. MOS: 11B.

DEROSIER, John D., (SP4) (M84) (Rowsh) 2030 W. Ilinois Ave., Apt. F, Aurora, IL 60506. Dy; (312) 896-2805. B: Mar 8. MOS: 67N. DESPARS Charles W. (SGT) (M86) (Church)

DESPARS, Charles W., (SGT) (M86) (Chuck) 4229 La Point, #C, Ft Campbell, KY 42223-1511. Dy; (502) 798-4781. Res; (502) 439-6798. W: Ellen. B: May 11. Dy; B Co, 5th Trans Bn. M0S; 677.

DIBBLE, Gregory M., (E5) (M86) 1129 Cornell Drive, Savannah, GA 31406. B: Mar 23. Dy: 609th Aircraft Maint Co.

DRAKE, Billy J., (SGM) (M86) (Smash) HHC 501st Spt Gp, USACFSC-FE, APO SF 96301. W: Kyong, B: May 15. Dy: USACFSC-FE, MOS: 00J.

40 Rt 1, Box 260A, Montgomery LA 71454 Rt 1, Box 260A, Montgomery LA 71454 Res: (318) 627-5156. W: Ruth. B: Sep MOS: 67Z. Past VP, Corpus Christi Chap.
 DUFFY, Michael J., (SFC) (M85) 100 Wood-brige Road, Enterprise, Al. 36330-9247. Dy. (205) 255-4800. MOS: 71L.

DUFRESNE, Normand J., (E4) (M86) (Frenchy) E Co, 501st ABC, Box 2634, APO NY 09326. B: Jan 4, MOS: 67T.

DUNN, John M., (SFC) (M85) (Mike) Box 5379, APO NY 09009. W: Marian. B: Oct 10. Dy: B Co, 70th Trans (CL). MOS: 67T.

EEEEEEEEEEEEE

EDGEINGTON, Mark L., (E5) (M85) (Siedge) 8 Co, 394th Trans Bn, Box 451, APO NY 09061. W: Friederike. 8: Aug 28. Dy: Arcrft Tech Insp. MOS: 66Y.

ELLIOTT, Cynthia L., (SSG) (M85) (Cynde) 17th Avn Group (Ctt), APO SF 96301. B: May 18. Dy; HHD, 17th CA6/Hotel 208. M05: 93P.
ELLIS, Scott L., (PFC) (M85) 82 Cable Street, Ft. Leenard Wood, M0 65473. Dy; (388) 216-9000. Res: (329) 480-7000. W: Penne. B: Sep 17. Dy; TRADOC, Avn Div DPTS. M05: 67N.
ELZIE, Danny L., (E7) (M80) (Danny) 4673 Hurley Drive, Fayetheville, NC 28303. Dy; (919) 425-3881. W: Hilde. B: Dec 28. Dy; C Co, 2nd Avn Bn. M05: 672. Past VP, Ft. Bragg Chap.
ENNIS, Joe K., (SP4)(M86)(Enos) B Co, 205th Trans Bn, APO NY 05165. B: Sep 9. M05: 680
EVANS, Troy J., (SSG) (M85) 117 Emerald Dy.

EVANS, Troy J., (SSG) (M85) 117 Emerald Dr. Enterprise, AL 36330, Dyr. (205) 255-6448. Res: (205) 393-3940, W: Marilynn, B: Dec 1. Dy: Instr., B Co., 1st Bn., Ft. Rucker, MOS: 67V.

FFFFFFFFFFFFFFF

FARROW, Zeandrew, (CSM) (M85) (Zee) 49788 Lee Village, Fort Campbell, KY 42223. Dy: (502) 798-4842. Res: (502) 439-5446. W: Christine. B: Jun 9. Dy: Task Force 160.

FEWELL, Anthony A., (PFC) (M85) (Tony) HHT, 11th CAS, 11th ACR, APO NY 09148. B: Aug 30. Dy: AVUM Troop. MOS: 68G.

FISH, Norman A., (SSG) (M86) (Norm) 193rd Avn Co, APO NY 09454. W: Sally, B: Sep 3. Dy: Head TI, MOS: 66N.

FITCH, Heidi J., (SP4) (M86) 220th AHC, Box 2529, APO NY 09250. B: Sep 6. Dy: 220th AHC. MOS: 93P.

FLEURANT, Donald M., (SGT) (M86) (Flo) 1108 Madison Street, Apt. 112, Clarksville, TN 37040. Dyr. 798-5398. Res: (615) 647-9420. 8- Feb 27, Dyr. C Co., 123rd Avn Bn, Ft. Campbell. MOS: 67V.

FLOYD, Clyde L., (1SG) (M85) Rt 4, Box 304, Ozark, AL 36360. Dy: (205) 255-4102. Res: (205) 774-5970. W: Diana. B: Dec 7. Dy: D Co, 6th ATB. MOS: 67Z.

FORD, Robert L., (E7) (M86) (Bird) 189th GSAC, APO NY 09165, W: Cecile, B: Aug 25. FORRY, Dennis L., (SSG) (M81) (Denny) 400 N. College Street, Myerstown, PA 17067, Dy. (717) 865-8959, Res: (717) 866-7369, W: Janet, B: Jun 28, Dy: Crew Chief UH-1, Co B, 28th Avn Bn. MOS: 67N.

FOX, Bruce R., (1SG) (M81) 51st Chem Co., Box 602, APO NY 09160, B: App 13. MOS: 542 FOX, Denald, (SGT) (M84) 1st Bn, 1st Avn Bde, Box 3012, Fort Rucker, AL 36362, Dy; (205) 255-5512, B: Apr 24, Dy; Army Avn Logistics Mgmt Br. MOS: 66N.

FOX, Patrick R., (PFC) (M86) (Trish) B Co, 205th Trans 8n, Box 235, APO NY 09165, B. Jun 8. MOS: 68G.

FRAZIER, Harry H., (E9) (M86) 52779-2 Sioux Circle, Ft. Hood, TX 76544. Dy. (817) 287-7550. Res. (817) 532-4649. W. Helga, B. Nov 19. Dy. Hst, 2nd Sqdn, 6th Cav. MOS: 00Z. FRENCH, Daniel W., (SP4) (M85) 203rd Avn

FRENCH, Daniel W., (SP4) (M85) 203rd Avn Co, Box 9, APO NY 09025. B: Mar 17. Dy: Tech Supply Clerk. MOS: 68D.

GGGGGGGGGGG

GALLAGHER, George D., (SP6) (M85) 3/-189th, Box 2551, APO NY 9931. W: Andrea. B: Jan 3, Dy: ATC Maint Chief. M05: 930. GARCIA, Ramiro, (SGT) (M85) Box 721 Avn Det, APO NY 09611. W: Cynthia. B: Jun 16. M05: 67N.

GARRIDO, Gaspar, (PFC) (M86) 25th Avn Co, Box 187, APO NY 09061, W: Dassina, B: Mar 1. Dy: Arcrit Struct Repair, MOS: 68G.

GEBHARDT, Vincent L., (SGT) (M85) 220th AHC, APO NY 09250, W: Alicia, B: Nov 30, Dy: Crew Chief, MOS: 67T.

GETKIN, Jay E., (SGT) (M84) (PT.Tufo) 2372C Smith Circle, Fort Eustis, VA 23604. Dyr. (804) 878-5497. Res: (804) 887-8949. W: Becky. B: Nov 12. Dy: 1st Staff & Faculty. MOS: 67T.

GILBERT, Dennis A., (SGT) (M81) HHC, 79th Engr. Cht Bn, APO NY 09360, W: Julie, B: Jan 25. MOS: 81B.

GILBERT, Tomenie, (SP4) (M85) (G-Man) HHC, 7th Inf Div, Fort Ord, CA 93941. Dy: (408) 242-3742. Res. (408) 242-7279. B: Sep 7. MOS: 76C.

GILMORE, Kenneth J., (E3) (M86) 207th Avn Co, Box 15, APO NY 09102. B: Oct 1, Dy: 70th Trans Bn, Arcrft Elect. MOS: 68F.

GLASSCOCK, Albert R., (SSG) (M82) Lester Trailer Pk, Lot 28, Fort Eustis, VA 23604. Dy: (804) 878-3001. Res: (804) 877-8444. W: Theresa. B: Aug 10. Dy: CH-47D Instr, 1st Staff & Faculty Co. MOS: 67U.

GORDON, Michael, (SP4) (M85) (Opie) 838 Sandberg Road, Frewsburg, NY 14738, Res: (716) 569-3422. B: Mar 28, MOS: 67N.

GOSS, Nelson G., (SGT) (M85) (Glenn) C Co., 308th AHB, APO NY 09165. W: Linda. 8: Jul 19. MOS: 67V.

GRADLE, Randal W., (PV2) (M86) (Randy) 8 Co, 205th Trans Bn, Box 257, APO NY 09165. B: Mar 31, MOS: 67N.

GRANT, Jeffery C., (E5) (M85) 56th Avn Co, APO NY 09028. B: Aug 17. Dy: Flight Line Crew Chief, FW Sec. MOS: 67G.

GRAY, Douglas A., (MSG) (M75) (Doug) HHC CAB, 2AD, Ft. Hood, TX 76546. Dy: (817) 287-4323. W: Angle. B: Jul 24. MOS: 67Z.

GRIESS, Kevin M., (E4) (M86) B Co, 205th Trans Bn, APO NY 09165. W: Linda. B: Jan 9. Dy: UH-1 Maint. MOS: 67N.

GROTE, Karl A. W., (E7) (M84) 17 Cottage Lane, Newport News, VA 23603. Dy: (804) 878-6270. Res: (804) 888-2184. W: Tilinda. B: Feb 16. Dy: USAALS, DOTD ITD SQTB, 1st Staff & Faculty. MQS: 68K.

GRUBB, Jimmy D., (SGT) (M85) (Jim) 720 McGraw Street, Clarksville, TN 37040, Dy. (502) 798-5823, Rss. (615) 647-5421. W: Roseanne, B: Jun 28, Dy. C Co, 229th Alik Hel Bn, Ft. Campbell, MOS: 66N.

GUZMAN, Francis, (SSG) (M85) 1812 Doornar Drive, Tallahassee, FL 32308, Dy; (904) 877-7282, W; Katherine, B; Aug 13, Dy; 201st Avn Co, MOS; 677.



AMERICAN ELECTRONIC LABORATORIES. INC.



AERO DIVISION

Integration, installation and testing of weapons systems and avionics

The Aero Division of AEL provides system engineering to integrate and install these systems in production and QRC modes. This capability applies to both rotary and fixed wing aircraft. The Aero Division of AEL, located at Allaire Airport, Farmingdale, NJ and Reading Municipal Airport, Reading, PA, offers unmatched efficiency and economy in the retrofit of armament/protection systems such as the AIM-9L



Sidewinder missile system and the AN/ALE-39 chaff dispensing system and communications, navigation and identification equipment.

Whether your requirements entail assembly of kits and wiring harnesses, EMI/EMC/TEMPEST testing, or updating of aircraft with equipment manufactured by AEL and other leading organizations, the AEL Aero Division is ready to provide cost effective service.

AEL has immediate, long-term employment opportunities in many challenging advanced technology areas. For more information, contact: Director of Recruitment



American Electronic Laboratories, Inc. Subsidiary of AEL Industries, Inc. P.O. Box 552 Lansdale, PA 19446 (215) 822-2929 TWX: 510-661-4976

#1984, American Electronic Laboratories, Inc.

The 1986 Aviation Soldier

нининининини

HACKNEY, Ronald L., (SGT) (M85) (Ron) P.O. Box 1241, APO MIA 34001, W: Bonnie, B: Apr 3. Dy: HHD, 210th CAB. MOS: 93P.

HALL, Kerry D., (SSG) (M74) F Co, 82nd CAB, Fort Bragg, NC 28307. Dy: (919) 396-6964. Res: (919) 868-3710. B: Aug 9. Dy: AVIM Maint Platoon, Safety NCO. MOS: 67V.

HAMMONDS, Remedies E., (SP4) (M85) (Rhemie) 56th Avn Co., APO NY 09028, B: Sep

HANCOCK, Alan D., (SFC) (M83) 8322 Mil-waukee, Fort Lewis, WA 98433. Dy: (206) 967-2364. Res: (206) 964-1007. W: M.L. B: Aug 19. Dy: 243rd Avn Co. MOS: 67Z

HANFORD, William J., (E4) (M86) B Co, 394th Trans Bn, APO NY 09061. W: Sherry. B: Mar 9. MOS: 68G

HARDY, Ann S., (SSG) (M86) 240th GSAC, 4th Bde, APO NY 09111. B: May 10. MOS: 66N HAWKINS, William C., (SFC) (M81) (Bil) HHC, 11th Avn Gp (Cbt), APO NY 09025. W: Margle. B: Sep 11. Dy: 1SG. MOS: 93P. Past VP, Schwaebisch Hall Chapter.

HAYES, James F., (SGT) (M85) (Jim) HST 5/17 Cavalry, Ft. Hood, TX 76545, B: Apr 10. MOS: 67T

HAYHURST, Arthur D., (SFC) (M85) (Dean) 3607 Bahama, Hokinsville, KY 42240. Dy: (502) 798-2887. Res: (502) 885-7435. W: Mickey, B: Feb 19, Dy: Plat Sgt, B Co, 158th Avn Bn, Ft. Campbell. MOS: 68D.

HAZELRIGG, Danny R., (SFC) (M83) (Dan) Quarters 29-5 SLASC, Granite City, IL 62040. W: Kathy. B: Oct 25. MOS: 09W.

HENSLEE, Scott B., (E4) (M86) (Scotty) 48th Avn Co, APO NY 09457, B: Jun 10, MOS: 67T. HERNANDEZ, Steven R., (E3) (M86) 25th Avn Co, P.O. Box 79, APO NY 09061. W: Michelle. B: Jan 25. Dy: Crew Chief. MOS: 67N

HITCHCOCK, Jerry L., (E4) (M85) 244th CAC, Box 1804, APO NY 09250. W: Debbie, B: Oct 21. MOS: 67N.

HITE, Leon, Jr., (E7) (M85) (Boogle Man) 2518 Jacqueline Drive, Apt D27, Wilmington, DE 19810. Res: (302) 475-1590. W: Bobrie. B: Feb 6. Dy: ARPRO, Boeing, PA. MOS: 67U.

HOLDER, James D., (SFC) (M84) (Jim) 725 FM 1959, Apt 207, Houston, TX 77034. Dy: (713) 486-1400. Res: (713) 484-6109. B: Aug 18. Dy: Opns Sgt Hgs, 149th AHB. MOS: 93P

HORN, Charles D., (E7) (M86) 17 Hilltop Court, Toano, VA 23168. Dy: (804) 878-6155. Res: (804) 566-1908. W: Sharon. Dy: 1st S & F Co. DOTD/UTD. MOS: 67Y.

HOUCK, Roger F., (SFC) (M83) A Co, 101st Avn Bn (AH), Fort Campbell KY 42223. Dy: (502) 798-2858. Res: (502) 439-6866. W: Mary, B: Mar 6, MQS; 67T.

HUENINK, Gary L., (SSG) (M85) B Co, 394th Trans Bn, Box 195, APO NY 09061, W: Sherri. B: May 23. Dy: AH-1 Section Sgt. MOS: 67Y. HUGHES, Joseph M., (E4) (M86) (Michael) HHT, 2/17 Cav, Fort Campbell, KY 42223. Dy: (615) 798-5059. Res: (615) 798-42 MOS: 67T.

HUMMEL, Roger, (E6) (M82) RR #2, Box 685-B. Pine Grove, PA 17963, Dy: (717) 865-444. Res: (717) 345-6344. W: Janice. B: Dec. 7. Dy: 108th Trans Co. CH-54A. MOS: 67X. HYMAN, Charles A., (PSG) (M82) (Chuck) RD No. 2, Box 2450, Grantville, PA 17028. Dy: (717) 865-8967. Res: (717) 469-0704. W: Christine, B: Apr 10, Dv: EAATS, MOS: 67U.

JJJJJJ

IVERSON, Steven K., (SFC) (M83) Hq. 4th U.S. Army, Attn: CART Team, Ft. Sheridan IL 60037-7000. Dy: (312) 926-3960. Res: (312) 432-2374. W: Ayten. B: Mar 4. MOS: 93P. IWATA, Allen R., (MSG) (M71) (Al) 3072 Ur-sula Street, Aurora CO 80011. Dy. (303) 340-9855. B: May 1. Dy: Hq STARC(-), COARNG, Aircraft Maint Sot.

JAMES, Donald W., (PFC) (M85) (Porky) 940 Summit Blvd, Bismarck, ND 58501. Dy: (701) 223-4151. W: Mary Ann. B: Feb 17. Dy: 213th Avn Co. CH-47 Helicopter Repair.

JOHNSTON, Jeffrey M., (MSG) (M80) (J.J.) 330 Tabb Lane, Apt. 22, Newport News, VA 23602. B: Dec 3. Dy: 1st Staff & Faculty Co, Ft. Eustis. MOS: 67Z.

JOINER, Earl L. Jr., (E7) (M83) Co A, 394th Trans Bn, Box 617, APO NY 09061. B: May 29. MOS: 67Y

JORGENSEN, Greg C., (SSG) (M85) (Charlie) 415 Little Belle Lane, Clarksville, TN 37042. Dy: 798-7594. Res: (615) 552-0145. W: Virginia. B: Mar 11. Dy: B Co, 5th Trans Bn, Ft. Campbell. MOS: 66U.

KKKKKKKKKKKKKK

KANARDY, Robert M., (CSM) (M85) HSC, 501st AHB, APO NY 09326. W: Lula, Dy: CSM. MOS: 00Z

KEARNEY, James M., (SFC) (M86) A Co, 159th Avn Bn, Fort Campbell, KY 42223. Dy: (502) 798-5240. Res: (615) 645-5461. B: Sep 20. MOS: 67U.

KELLEY, Timothy W., (SSG) (M85) HHC 4th 8de, Box 1681, APO NY 09250. W: Kim. B: Sep 13. MOS: 688.

KERFOOT, Frederick J, (SFC) (M68) 245th ATC Co (Fwd), Fort Bragg, NC 28307-5000. Dy: (919) 396-9730. B: Nov 29. Dy: ATC Supervisor, MOS: 93J.

KIRKLAND, Tilden R., (CSM) (M78) (Ray) Post Sergeant Major, Fort Rucker, AL 36362. Dy: (205) 255-4800. W: Betty. B: Feb 11. Dy: CSM, USAAVNC. MOS: 00Z. NEB. Past VP, Taunus Chapter, Member, AAAA Nat'l Board. KNIGHT, Jeffrey B., (E3) (M85) 25th Avn Co. Box 104, APO NY 09061. B: Sep 24 MOS: 67V KNOTT, James, (CSM) (M83) (J.P.) Route 1, Box 240-A, Shannon, NC 28386. Dy: (919) 395-9538. Res: (919) 875-5327. W: Delores. B: Nov 14. Dy: HHC, 82d Cbt Avn Bn, Ft. Bragg, MOS: 00Z.

KNUDSON, Ricky L., (E4) (M86) (Chicken Man) 528th Trans Co, 13th SupCom, Fort Hood, TX 76544-7055. Dy: (817) 287-3544. B: Nov 22. Dy: Avionics Tech. MOS: 35L.

KOPP, Robert C. Jr., (PFC) (M86) (Jocko) B Co, 205th TC Bn, Box 425, APO NY 09165. B: Mar 13. Dy: Cobra Maint. MOS: 67Y.

KUBASAK, Barry, (PV2) (M86) Box 1239, APO NY 09611. B: Jun 28. Dy: Berlin Aviation Detachment, MOS: 67N.

KUNTZ, Samuel F. II. (E4) (M86) (Slam) 203rd

Combat Aviation Company, APO NY 09025. B: Feb 6. MOS: 67T.

LLLLLLLLLLLL

LAANSOO, Herb, (MSG) (M79) 622 Arrow-head, Collinsville IL 62234 Dy. (618) 256-2925. Res: (618) 344-5871. B: Sep 20. Dy: 219th Acft Maint Co. Prod Control NCO. MOS: 672 LANIER, Joel E., (CSM) (M85) HSC, 8th AHB APO NY 09185 W: Marva, B: Apr 1, MOS: 00Z

LAWRENCE, Gene, (SFC) (M78) (George) 2249 Robin Road, Clarksville, TN 37042. Dy: (615) 798-2224. Res: (615) 431-6978. W: Beverly, B: Apr 28, Dy: 1SG, A Co, 229 AHB, Pt. Campbell, KY, MOS: 67Y.

LAWSON, Jimmy L., (SFC) (M82) 950 Pent-wood Rd, Apt. C, Bel Air, MD 21014. Dy: 575-6930 Res: 838-9379. Dy: 1329th TAMC 29 LID

LEITZEL, Harry M. Jr., (SSG) (M86) Route 1, Box 668, Cedar Creek, TX 78512. Dy: (512) 465-5010. Res: (512) 247-2425. W: Carol. B: Oct 26. Dy: Co E (-), 149th Avn Bn. MOS: 67N. LENIX, William R., (MSG) (M85) (Mad Dog) PSC Box 13, Fort Gillem, Forest Park, GA 30050. Dy: (404) 362-7854. B: Oct 5. Dy: Sr Avn Maint Adv, Hgs 2d US Army, MOS: 67Z.

LENTZ, Ralph L., (1SG) (M81) 2545 Sillmea-dow Ln, York, PA 17404. Dy: (717) 787-5770. Res: (717) 764-3713. W: Sandra. B: Dec 10. Dy: Co A, 28th Avn Bn, PAARNG. MOS: 67Z. LEWIS, Wiley C., (SFC) (M84) 60 Wake Road, Eatontown, NJ 07724-3234. Dy: (532) 514-3000. Dy: Hq, CECOM (NET Div), MOS: 35P.

LINDGREN, Lester J., (SSG) (M83) (Les) 6703 5th Court S.E., Lacey, WA 98503. Dy. (206) 967-3051. Res: (206) 438-0320. W: Edith. B: Mar 21. Dy: 54th Med Det, Ft. Lewis. MOS: 67N. Past VP. Nurnburg Chapter.

LONEY, John, (CSM) (M83) 204 Dale Terrace. Clarksville, TN 37042. Dy: (502) 798-2137. Res: (615) 648-1018. W: Mary. B: Apr 28. Dy: 123d Cmd Avn Bn, Ft. Campbell. MOS: 002.

LOOMIS, Robert, (E5) (M85) HHT, 11th CAS, 11th ACR, APO NY 09146, B: Jun 17, Dy: Ful-da Gap Border AVUM Troop, MOS: 67T.

LOZIER, Garrett, (SSG) (M83) 390A Deput Ln, Newport News, VA 23602. Dy: (804) 876-3595. Res: (804) 875-0765. B: Dec 25. Dy: Instr, Atk & Obs Hel Div, 1st S & F. MOS: 67Y. LYKENS, Robert W., (SFC) (M81) (Bob) RD 1, Box 7465, Grantville, PA 17028. Dy: (717) 865-8780. Res: (717) 865-5540. B: May 19. Dy: Eastern ARNG Avn Trng Site. MOS: 93P.

MMMMMMMM

MAKIE, Robert L., (MSG) (M77) (Mac) HHC, VII Corps, PO Box 637, APO NY 09107. W: Mardell, B: Jul 4, MOS: 93P

MALABED, Carles D.G., (SGT) (M85) (Dave) B Co, 70th Trans Bn (AVIM), APO NY 09028, W: Anabel, B: Aug 29, Dy: B Co, 70th Trans Bn (AVIM), MOS: 67G.

MALCOLM, Mark G., (PFC) (M85) (The X) B Co, 394th Trans Bn, APO NY 09061. B: Jan 10. MOS: 67Y.

MALESA, Chester, (SGM) (M75) HHC, 11th Avn Gp, APO NY 09025. W: Anna. B: Jan 5. MARTINEZ, Remberto F., (SP4) (M85) HSC 501st AHB, Box 1927, APO NY 09250, W: Ir-ma. B: Oct 16, MOS: 68J.

MASON, Arnold T., (PFC) (M86) (Todd) AVUM Trp. 11 RCAS, 11 ACR, APO NY 09146, B: Mar

6. Dy: Maint, Phase on UH-1. MOS: 67N.

MAZZA, Michael A., (SGT) (M85) (Mike) RD 1, Box 2407, Jonestown, PA 17038, Dy. (717) 865-8686, Res. (717) 865-6434, W. Susan, B. Mar 12, Dy. EAATS, MOS. 71L

MicCANN, Gregory L., (SFC) (M81) 103-B Andrews Rd, NBU 17-8, Rt Huachuca, AZ 85613, Res: (802) 459-4050, W: Tae Cha. B: Jun 109; Avn 01V, USA Electronic PG. MOS: 93P. McCLENDON, Derothy A., (SGT) (M85) (Ann) 244th CAC, Box 2409, APO NY 09250. B: Jun 5. Dy: Quicklix, 4th Avn Bde, MOS: 986.

McCOMBS, James, (E6) (M85) (Jim) 5080 A Hammond Hts, Ft. Campbell, KY 42223, D6 (502) 788-4797 Res: (502) 439-1973. W: Frances. B: Dec 2. Dy: B Co, 229th AHB. MOS: 67V McDONALD, Norman H., (SSG) (M86) (Mac) USA AVRADA, Ft. Monmouth, NJ 07703. Dy: (201) 544-4004. B: Sep. 17. Dy: AVRADA, Navigation Div. MOS: 35P.

McKENNA-MESTREZ, Mary E., (E5) (M75) Naval Reserve Genter, P.O. Box 4586, Missoula, MT 59806-4586, Res: (406) 721-7202. H: LCdr Robert E. Mestrez, B: Aug 21, Dy: Ft. Missoula, MT, MOS: 71P.

McKINNEY, Carl D., (SFC) (M84) (Big Mac) 629 Georgia Drive, Columbus, GA 31907, Dy: (404) 544-2687, Res: (404) 687-1902, W: Ada. B: May 20, Dy: A Co, Rec Bn, Ft. Benning. MOS: 118.

MELTON, Donald W., (SGM) (M82) (Don) 75-39 Selwyn Ct, Fayetteville NC 28303. Dy: (919) 396-5611. Res: (919) 864-0530. W: like. B: Jan 20. Dy: HHC, XVIII Abn Corps. MOS: 93P.

MESTRE, Mark C., (SP4) (M85) B Co, 70th Trans Bn (AVIM), Box 133, APO NY 09028. W: Karol. B: Aug 13, MOS: 93P.

MEYERS, Howard B., (£5) (M85) 3351 Moore St., Los Angeles, CA 90066. Dy: (818) 909-2200. Res: (213) 397-6663. W: Sandra. B: Sep 19. Dy: 146th TAW Cam Sqdn. MOS: 678. MEYERS, John C., (£5) (M86) (Mots) B Co, 205th Trans Bn. Box 539. APO NY 09165. W: Kathy. B: Mar 5, MOS: 67Y.

MILLS, Ricky, (1SG) (M86) 232 No. School St., Carthage, NY 13619. Dy: (315) 772-6209. Res: (315) 493-3925. W: Judy. 8: Jun 21. Dy: 121st CAC, Pt. Drum, NY. MOS: 67Z.

MITCHELL, Celvin G., (SSG) (M85) (Bibby) PSC Box 4889, APO MIA 34001. W: Cheyenne. B: Feb 24. Dy: 210th CAB, Aircraft Tech Inspotr, UH-1H. MOS: 66N.

MOELLER, Rebert A., (E7) (M84) (8ob) 391-D Deputy Lane, Newport News, VA 23602. Dy: (804) 878-5497. Res: (804) 875-0418. W: Tsuneko. B: Jun 4. Dy: 1st Staff & Faculty, Pt. Eustis. MOS: 677.

MONAGHAN, Michael F., (SSG) (M86) B Co, 394th Avn Bn-Maint, Box 362, APO NY 09061. W: Christine. B: Jul 16. MOS: 67Y.

MOORE, Stephen M. (SSG) (M85) 3241-8 Harris Court, Dover, NJ 07801. Dy. (201) 536-6065. Res: (201) 989-2547. W: Marina, Dy. Tech Insp., AMCCOM Avn Det (D). MOS: 66N. MORENO, Amador M., (MSG) (M85) (Sgl Mo) Hg, 21st SupCom-ACSLOG-Avn, APO NY 09325. W: Gertrud. B. Apr 30. Dy. Aircraft Maint Sgt, Hq 21st SupCom. MOS: 67Z.

MORGAN, Earl A., (E6)(M86) HHT 3/7 Cav, APO NY 09702. B: Jun 28. MOS: 66Y. MORRIS, Josie, (SGT) (M85) (Sim) HHC, 223rd Avn Bn, APO NY 09025. B: Dec 16. MOS: 758.

MOSELEY, Todd V., (SP4) (M85) 8 Co. 394th

Avn Bn, Box 669, APO NY 09061, B: Apr 1. MOS: 67N.

MULLIJ, LJ., (SFC) (M86) 193rd Āvin Co, APO NY 09454. W: Jan. B: Aug 31. MOS: 68K. MULLEN, Richard P., (CSM) (M83) (Moon) Hig 205th Trans Bn (AVIM), APO NY 09165. W: Gloria. B: Feb 16. MOS: 002. VP, Hanau Chap. MULLEN, Terry D., (SP4) (M86) (Dude) Box 38, B Co, 394th Trans, APO NY 09061. W: Wendy. B: Sep D. Dy: 4th Avin Bde, 42nd TAMC. MOS: 68J.

MYERS, Richard T., (1SG) (M77) (Dick) OPM-SANG, APO NY 09038. W: Cecella. B: Jun 18. Dy: OPM-SANG, Réyadh. MOS: 918.

NNNNN - QQQQQ

NEWCOMB, Fred A., (SGT) (M84) Rt 2, Box 187, Kenbridge, VA 23944, Dy: (912) 352-5401. W: Debra Lynn. B: Dec 20. Dy: A Co, 24th CAB, Cobra Section. MOS: 67Y.

NEWLIN, Allen H., (£4) (M86) Bluegrass Lodge Apts, 255 Clara Dr, #3-N, Pembroke KY 42266. Dy: (502) 798-4972. Res: (502) 475-4001. W: Waynette, B: Sep 13. Dy: A/123 Cmd Avn Bn, 101 Abn Div, Rt. Campbell. MOS: 67N NORTON, Gary L., (SGT) (M85) B Co., 70th Trans Bn, APO NY 09028. W: Velinda. B: Sep 12. MOS: 67T.

ORTIZ, Luis G., (SSG) (M85) (Lou) 6604 Worford Court, Fayetteville, NC 28301. Dy: (919) 396-0875. Res: (919) 822-1097. W: Suzan. 8: Mar 15. Dy: C Co, 82nd CAB. MOS: 66N.

PARISI, Robert A., (E5) (M84) (Bob) A Trp, 2/6th Cavalry, Fort Hood, TX 76544. Dyr. (817) 287-8380. Res: (817) 699-3253. B: Jun 10. MOS: 67Y

PARKER, Wayne R., (SSG) (M85) 14322D DeLoice Cir, Newport News, VA 23602. Dy: (804) 878-3624. Res: (804) 875-5372. W: Frances. B: Nov 18. Dy: 3rd S & F Co, 1st Tng Bde, Ft. Eustis. M05: 68J.

PATE, John T., (CSM) (M86) 20-1 SLASC, Granite City, IL 62040. Dy: (314) 263-1018. W: Robbie. B: Sep 21. Dy: AVSCOM.

PEREZ, Manuel F., (E7) (M86) (Manny) 404 White Wing, Round Rock, TX 78664, Dy. 465-5010. Res: 255-4504. W: Teresa. B: Apr 19. Dy: Hq STARC, Austin. MOS: 67G.

PETERSON, Theresa L., (SPS) (M84) (Terry) 307 N. East Street, Carlisle, PA 17013-2008. Dy. (717) 274-4864. B: Dec 7. Dy: Eastern ARNG Tng Site, Pt. Indiantown Gap, MOS: 71L.

PINNEY, Michelle, (SGT) (M88) Co B. 205th Trans Bn, Box 592, APO NY 09165. B: May 12. MOS: 67T.

PLASKY, Alan, (SSG) (M74) (F.A.) 75 Barnard Drive, Newington, CT 06111. Dy; (203) 521-6296. W: Debra, B: Sep 25. Dy; 208th Trans Co (Hvy Hel) CT ARNG, Fit. Eng. MOS: 67X. PRATT, Paul W., (SSG) (M86) Route 1, 80x 50, New Baden, IL 62265. Dy; (618) 256-2825. Res: (618) 588-4455. B: Sep 7. Dy; 219th Trans Co, Scott AFB, UH-60 Arcrit Repair Insp. MOS: 66T.

PRICE, Walter, (E4) (M86) Rt 4, P.O. Box 598, Lugoff, SC 29078. Res: (803) 438-3574. B: Apr 11. Dy: 320th GSAC. MOS: 67V.

PRUITT, Jeffrey J., (SSG) (M83) 1009 Yorkshire Street, Pflugerville, TX 78660. Dy; (512) 465-5013. Res: (512) 251-2829. W: Shirley. B: Aug 3. Dy: 1249th TC. MOS: 67N.

QUINN, Thomas W., (1SG) (M86) (Tom) 6441 37th Street, Pt Hood, TX 76544. Dy: (817) 287-5069. Res: (817) 532-4243. W: Linda. B: Oct

The 1986 Aviation Soldier

M

10. Dy: HHT, 1/6th Cav, 6th C8(AC). MOS: 67Z

RRRRRRRRRRRRRR

RABER, Terry L., (SFC) (M82) 301 Brandy Ln, Mechanicsburg, PA 17055. Dy: (717) 790-6755. Res: (717) 697-6955. W: Beverly. B: Jul 23. Dy: Opns Sgr., 28th Avn Bde. MOS: 939-RESTUCCI, Mare S., (SGT) (M84) (Stuch) 5059 Spruce Pk, Apt 59, Lebanon, PA 17042-3055. Dy: (717) 865-8827. Res: (717) 272-5413. W: Charlene. B: Jan 24. Dy: Eastern ARNG Avn Tng Site (Med). MOS: 918.

RETZLAFF, Robert G., (MSG) (M85) 4005 Hillswind, San Antonio, TX 78217. Dy; 221-2828. Res: (S04) 650-5081. W: Mary. 8: May 0. Dy: Hq, 5th Army Inspector Gen. MOS: 67Z. RICHTERS, Renate, (SP4) (M85) HHD, 17th Cbt Avn Gp, APO SF 98301. B: Jan 12. Dy: Yongsan Heliport (H208). MOS: 939-

RIGSBY, Terry A., (E7) (M86) B Co, 394th Trans Bn, Box 462, APO NY 09061-0298. W: Marixa. B: Aug 26. MOS: 67Y.

RIVERS, Scott M., (SSG) (M65) (Mickey) 5500 251-0134. Res: (612) 727-2913. W. Darcy. B: Oct 4. Dyr. Det 1/185th Trans Co. MOS: 1008. ROBERTS, Larry L., (SFC) (M84) (Big Foo) 563 Claradon Ave, Columbus, GA 31906. Dyr. (404) 545-3410. Res: (404) 689-1851. W. Judy. B. Nov 29. Dyr. 498th Med Co (AA), Ft. Benning. MOS: 918. Past VP, "Follow Me" Chapter.

ROBERTS, Tommy R., (CSM) (M85) 1815 Camilla Road, Fort Hood, TX 76541. Dy: (817) 287-2559. Res: (817) 634-2869. W: Mieko. Dy: CAB, 1 Cav Div. VP, Fort Hood Chapter.

ROBINSON, Hareld L., (E5) (M86) (Harry) HHT, 3/7 Cav, Box 11, APO NY 09702, W; Linda. B: Oct 20, MOS: 68M.

RODRIGUEZ, William J., (E6) (M86) (Bill) AVUM Trp. 11 CAS, 11 ACR, APO NY 09146. W: Mari. B: Aug 25. MOS: 66V.

ROLDAN, Efrain, Jr., (E3) (M86) (Junior) 203rd Avis Co, APO NY 09025. W: Myrna. B: Jan 3. MOS: 76W.

ROMAN, Richard, (SSG) (M86) 203rd Avin Co, APO NY 08025 W: Anita. B: Mar 10. MOS: 35P ROSE, Jean L., (CSM) (M84) HHC, 1st AHB, Pt. Riley, KS 68442. Dy: (913) 239-3365. Res: (913) 784-3548. W: Grace. B: Jun 19. MOS: 002.

ROWE, Michael, (SSG) (M83) (Jethro) P.O. Box 967, Gloucester, VA 23061. Dy. (804) 878-2532. Bez: (804) 693-7881. W. Deborah. B: Nov 27. Dy: HHC Post, PI Eustis. MOS: 67U. RUNK, Adam E., (SFC) (M85) Co B. 394th Trans Bn. Box 427, APO NY 09061. W: Cynthia. B: Sep 20. MOS: 68K.

thia. B: Sep 20. MOS: 68K.

RYNNE, Joesph M. Jr., (CSM) (M84) (Joe)
USA Garrison, Honshu, Japan, APO SF 96343.
W: Tomko. B: Jan 12. MOS: 00Z.

SSSSSSSSSSSSS

SAGANICH, Gregory D., (SGT) (M65) (Greg) 360 Payson Street, Hoffman Estates, IL 60194. Dy: (312) 657-2283. Res: (312) 490-0357. S: Dec 31. Dy: UH-1 Crew Chief, 305th Avn Co (CS). MOS: 67N.

SANDERS, Donald R., (SGT) (M85) 23 43

S The 1986 Aviation Soldier

Urell Street, Fort Rucker, AL 36362. Dy: (205) 255-5404. Res: (205) 598-9422. W: Lynn. B: Dec 30. Dy: HHC, 1st Bn (ALMO). MOS: 666. SCHABEL, William L., (SFC) (M85) (Bill) FAMC, TF Phoenix, Box 1552, APO NY 09326. W: Margo. B: Sep 25. Dy: ISG. MOS: 67Y. SCHLICHT, Erwin W., (SFC) (M85) (Bill) 4983A Harrison St, Ft. Campbell, KY 42223. Dy: (502) 798-7240. Res: (502) 439-1342. W: Bonnie. B: Sep 20. Dy: HHC, AB, 101st Abn. MOS: 312 SCHBUMPF, Michael W., (MSG) (M86) (M86) HHC, 11th Avn. Gp Cbt. Box 55, APO NY 09025. W: Terry, B: Jul 8. MOS: 67Z.

SCHULTZ, Michael L., (SFC) (M84) HSC, 308th AHB, APO NY 09165-1540, W: Gall, B: Jan 23. Dy: S-3 NCOIC, MOS: 67T.

SCONYERS, Lawrence W., (CSM) (M86) (Larry) HHD, 19th CAB, APO SF 96271, MOS: 002.
SCOTT, Eric T., (SSG) (M86) (Muschi) B Co, 334th Avn Bn, Box 655, APO NY 99061. W: Claudia. B: Fb 25. Dy: Airfme Struc Rep. MOS: 686
SELLING, William J., (CSM) (M85) (Bil) 715
York Street, Lodi, CA 95240. Dy: (209) 736-2589. Res: (209) 388-3574. W: Durlene. B: Oct 20. Dy: Bdc CSM, 40th Caw Bdc (AA), 40th ID (Moch) CAARNG. MOS: 00Z.

SHEFFER, Roy E., III, (SGT) (M86) (Cool Roy) A Co, 1st MI Bn (AE), APO NY 09457. W: Wendie. B: Jan 11. MOS: 66H.

SHERIDAN, Dean C., (SGT) (M85) 4537 Wicklow PI #101, Virginia Beach, VA 23452, Dyr. (804) 497-0398, Rest. (804) 499-9890. B: Sep 19. Dyr. I-III FA, VAARNG, MOS: 918.

SHOOPMAN, Deeny K., (CSM) (M74) 11th Cbt Avn Bn, APO NY 09457, W. Connie, B: Dec 12. MOS: 00Z. VP, Taunus Chapter.

SHROYER, Raymond, (1SG) (M80) 4735 Fairview, Downers Grove, IL 60515. Dy: (312) 254-6551. Res: (312) 969-1144. W: Diane. B: Jun 25. Dy: 18th Trans, Glerwiew NAS. MOS: 67Z. VP, Chicago Area Chapter.

SIPLES, William E., (1SG) (M85) (Bill) 25th Avn Co, APO NY 09061. W. Margarete. B: Apo 23. Dy: 11th CAG, Corps Avn Sec. MOS: 67Z. SKAMANICH, Ronald, (SSG) (M81) 15 Fairview Street, Pine Grove, PA 17963. Dy: (717) 865-882. Res: (717) 345-4691. W. Susanne. B: Mar 22. Dy: EARS, Arcff Maint Suprisr. MOS: 67T. VP, Indiantown Gap Chapter.

SLENKER, Elmer L., (SFC) (M84) (Bud) 313 Willow Oaks Dr, Ozark, Al. 36360, Dy; (206) 255-3982. Res: (206) 774-4628. W: Diane. B: Jun 24. Dy; Sr Test Prog MO, USAATB. MOS: 35P. SMITH, Alibert. (PV2) (M86) (Chris) 203rd Avr. Company, APO MY 09025. W: Sondra. B: Jan 9, MOS: 677.

SMYTHE, Nicholas, (SGM) (M83) (Nick) USA Aviation Board, Fort Rucker, AL 36362 Dy: (205) 255-2179. Res: (205) 393-4372. W: Judith. B: Aug 25. MOS: 672.

SPALLA, Vincent J., (SGT) (M85) (Spock) Co C 160th TF, Ft. Campbell, KY 42223. Dyr. (502) 798-7512. Res: (502) 798-7512. B: Sep 30. MOS: 67T.

SPENCER, Ronald J., (SP4) (M85) (Spence) B Co, 70th Trans Bn, APO NY 09028, B: Feb 24, MOS: 67V.

44 STAKIAS, George A., (PFC) (M86) (Karate Kid) B Co, 205th Trans Bn, Box 777, APO NY 09165. B: Nov 9. MOS: 67V.
STANDRIDGE, Rickey S., (SSG) (M86) 180th
Avn Co, APO NY 09025. W: Katherine, B: Aug
2. MOS: 67U. VP, Schwaebisch Hall Chapter.
STARLING, Enech R., (SP4) (M86) 320th GSAC
MR Box 126, APO MIA 34006. B: Aug 24. Dy:
210th CAB, 320th GSAC, MOS: 67U.

STASIAK, Stephen J., (E4) (M85) (Stas) HSC 18th AHB, Box 165, APO NY 09185, B: Aug 29. STATTON, Harold D., (SFC) (M82) 714 Allison Avenue, Manhattan, KS 66502, Dy; 913) 239-4810, W: Shirley, B: Feb 12, Dy; USA Garrison, P. Rilley, Past VP, Schwaebisch Hall Chapter. STIDLEY, Richard D., (E5) (M66) (Rick) HHT, 24-17 Cav., Ft. Campbell, KY 42223, Dy; (502) 798-3375, Res: (615) 647-2115, B: Oct 10 MOS: S8 STINCHCOMB, B. J., (MSG) (M84) PO Box 14, Edgewood, MD 21040, Dy; (301) 671-3932. Res: (301) 939-3132. W: Jo. B: Nov 30, Dy; Arcrift Maint, MACE, MOS: 672.

STORY, Robert, (MSG) (M85) (Bob) 12200 Nutmeg Court, Woodbridge, VA 22192. Dy. (2002) 325-7440. Res: (703) 491-4194. W: Peggy, B: Apr 19. Dy. USA Soldier Spt Ctr NCR, Alexandria, VA. MOS: 67Z.

STREET, David B., (SP4) (M85) HHT, 11th RCAS, 11th ACR, Box 288, APO NY 09146, B: Oct 30, Dy: Fit Opns Coord, MOS: 93P.

STROM, Kevin A., (SGT) (M85) (Stromboli) B. Co., 394th Avn Bn, Box 453, APO NY 09061. B: Oct 5. Dy: Artrame Repair. MOS: 68G.

SUCHARSKI, Patrick, (SFC) (M85) (Skl) 9 Avalon Dr. Clarksville, TN 37042. Dy. (502) 798-3188, Res. (615) 552-6162. W: Kimmle, B: Apr 19. Dy: B Co, 158th Avn Bn, Pt. Campbell.

TEHERO, Edna C., (PFC) (M95) (Lady) HHC, APGISA, Box 135, Aberdeen PG, MD 21005, Dy. (30, M05: 93P.

THOMAS, Mark W., (SP4) (M85) HHC, 501st AHB, APO NY 09250. W: Judith. B: Dec 25. MOS: 68D.

TRAYLOR, John P., (CSM) (M86) Route 11, Box 325, Dothan, AL 36301. Dy; (205) 255-2454. Dy; B Co, 1st Bn, 1st Avn Bde, Dir Enlisted Tmg. VP. Army Avn Center Chapter.

TRIPP, Charles E., (E3) (M86) (Charlie) RD 1, Box 68, Port Crane, NY 13833. Dy: (607) 693-2231. Res: (697) 772-3606. W: Valerie. B: Feb 17. Dy: Co F, 505 PIR, 82d Abn Div.

UUUUU — YYYYY

UNSELL, Roger L., (SSG) (M86) 513-B Stryker Village, Ft Campbell, KY 42223, Dy. 798-3355. Res. 315-7410, W. Bonnie, B. Aug 26, Dy. A Co., 123 Avn Bn., 101st Abn Div. M0S: 67N. UPTAIN, Carol, (SP4) (M85) 203rd Avn Co., APO NY 99025. W. David, B. Jul 25, Dy. Fit Ops Spec, 203rd Avn Co. M0S: 93P.

UTTER, Larry J., (E4) (M86) 805 Hanover Dr, Virginia Beach, VA 23464. Dy. (804) 467-6216. B. May 30. Dy. Fire Control Repair. MOS: 68J. VALENCIA, Jeff J., (E4) (M86) (El Gato) HJ. 37 Cav., 80x 17, APO NY 09702. B: Oct 3. Dy. Petroleum Supply Specist. MOS: 76W.

VALIGORA, John M., (MSG) (M82) (Val) 1306 Harbor Village Drive, Corpus Christi, TX 78412. Dy: (576) 848-0000. W: Darlene. B: Apr 19. Dy: HHC, 26th Sup Gp, Heidelberg. MOS: 76Z. VANDENHEEDE, Mich. Rey. (5P4) (M84) 942-C. Burr St, Ft Benning, GA 31905. Dyr. (404) 545-2018. Res. (404) 687-6304. W. Eileen, Br. Jan 4. Dyr. DPT, Avn Div, Hq. 1st Bn TSB, MOS: 67T. WALTERMYER, Patricla, (SSG) (MSG) (Patty) P.O. Box 402, Jonestown, PA 17038. Dyr. (717)

865-8961. Res: (717) 865-5040. B: Dec 29. Dy:

ATC Tech, 28th Avn Ptt. MOS: 150A.

WASHENFELDT, Louis F., (SSG) (MS2) (Lou) 4845 Philadelphia Road, Aberdeen, MD 21001.

Dy: 621-2423. Res: 272-3441. W: Paula. 8: Jul 10. Dy: 1329th AMC. MOS: 66T.

WATKINS, Brian J., (SP4) (M85) B Co, 394th Avn Bn, Box 258, APO NY 09061. W: Suzanne. B: May 0, M0S: 67V.

WEAVER, Richard A., (SGT) (M85) (Rick) PSC Box 5796, APO MIA 34001. W: Betty. B: Dec 21. Dy: 210th CAB. MOS: 67N.

WESSON, Evelyn, (SP4) (M85) HHC, 223rd Avn Bn, APO NY 09025. H: Larry. B: Jun 19. WESTHOFF, Mark A., (SGT) (M86) (Crash) A Co, 205th Trans Bn, APO NY 09165. W: Fern. B: Oct 7. Dy: Flight Ptt Sgt. MOS: 67N.

B: Oct 7. Dy: Flight Ptt Sgt. MOS: 67N.
WHISNANT, Danny R., (E3) (M86) (Vhiz) HHT
3/7 Cav, Box 45, APO NY 09702. Res: (704)
433-7950. B: Mar 12. MOS: 680.

433-7950. B: Mar 12. MOS: 68D. WHITE, Alfred, (SGM) (M81) (Al) USA Safety Cen., Fl Rucker, AL 36362. Dy: (205) 255-3005. Res: (205) 774-0172. W: Mildred. B: Dec 10.

Cen., Ft Rucker, Al. 36362, Dy. (205) 255-3005. Res: (205) 774-0172. W: Mildred. B: Dec 10. MOS: 67Z. WHITE, George R., (MSG) (M83) HHC, 1st

WHITE, George R., (MSG) (M83) HHC, 1st CosCom, P., Bragg, NC 28307, Dyr, (919) 396-5503. W. Eszabeth. B. Aug 11. Dy. Everoise NCDIC. MOS: 67Z. Past VP, Checkpoint Charlie. WILKINS, Terry, (MSG/P) (M86) HHD, 59th ATC Bn, Box 146, APO NY 09025. W. Kathy. B. Dec 23. MOS: 931.

WILSON, Charles D., (SGT) (M86) (Chuck) B Co, 394th Trans Bn, Box 124, APO NY 09061. W: Vicki. B: Apr 14. Dy: Power Plant Repairman. MOS: 668.

WILSON, Kurt, (SP4) (M84) 346 Robinwood Ave, Whitehall, OH 43213, Dy; (614) 235-0986, Res: (614) 235-0986. W. Kris, B. Nov 28, Dy: B Co., 101st Avn Bn, Ft Campbell, MOS: 67T. WIRTH, Michael J., (SFC) (M85) (Mice) HSC, 501st AHB, Box 2047, APO NY 09250. W. Jean. B: Jan 1. MOS: 67V.

WOJTOWICZ, Steven, (SP4) (M86) B Co, 394th Trans Bn, Box 567, APO NY 09061. W: Linda. B: Mar 23. MOS: 44E.

WODD, William D., (E5) (M86) (Woody) P.O. 8ox 136, Benson, NC 27504, Dy: (919) 733-5069, Res: (919) 894-8816, B: Dec 19. Dy: Hg, 30th Avn Bn, Morrisville, MOS: 680.

WOODARD, Elmer L., (1SG) (M85) HHC, 4th Bde, Box 1946, APO NY 09250. W: Annie. B: Nov 19. Dy. Task Force Phoenix. MOS: 67Z. WRIGHT, Marlanne G., (E6) (M86) (Mair) 2411 Riverside Farms Rd, Austin, TX 78741. Res: (512) 385-0473. B: Oct 6. Dy: 12th Evac Hosp, San Antonic. MOS: 91A.

WYNNE, Tony M., (SSG) (M86) 25th Avn Co, Box 204, APO NY 09061. W: Cherie. B: Jan 27. Dy: Tech Inspector. MOS: 66N.

YAHNER, Mitchell G., (SGM) (M84) (Pops) Box 1054, Hhc, Vi Corps, APO NY 09107. W. Delia. B: Apr 16. MOS: 93P. AAAA Aviation Unit of the Year Award, 1963.

YORK, Mark D., (SP4) (M86) B Co, 394th Trans Bn, Box 708, APO NY 09061, W: Laura. B: Feb 11, MOS: 67Y.

YUSUP, Chris., (SSG) (M86) (Chris) B Co., 205th Trans Bn, Box 911, APO NY 09165. W: Sonhul. B: Aug 18. MOS: 68G.



Lt. Generals

WETZEL, Robert L. P.O. Box 5387 Columbus, GA 31906

Maj. Generals

TONER, Francis J. 4212 Ann Fitzhugh Drive Annandale, VA 22003

Brig. Generals

HARVEY, Thomas H. Jr. PMA, J-5, OJCS Washington, DC 20301

Colonels

BITHER, Rodney D. ARPROIMCD 5000 E. McDowell Mesa, AZ 85205 CARR, Peter H. 4th Avn Bde Fort Carson, CO 80913 GINN, Jerry W. HHC, 4th Bde, 3AD APO NY 09165 GRIDER, Robert J. 511 Woodland Terrace Alexandria, VA 22302 MASSEY, Ronald F. HHC VII Corps APO NY 09107 MORTON, James O. 1111 Army Navy Dr. B-501 Arlington, VA 22202 PRESTON, Edward J.

412 Dickman Fort Sam Houston, TX 78234 TERRELL, Douglas R. Hq. 6th Army IG Presidio of SF, CA 94129

Lt. Colonels ANDERSON, James R.

American Embassy APO NY 09085 BALMOS, Edward J. USAPSC-H Unit 2, POB 347 APO SF 96503 BRUNS, Thomas E. 5513 Broadmoor Street Alexandria, VA 22310 BRYAN, John P. APO NY 09333

Lt. Colonels

CARLIN, Dennis 14 Boyce Lane Fort Rucker, AL 36362 CHANDLER, Edward D. 405 Broken Arrow Drive Enterprise, AL 36330 CLARK, John N. Jr. 113 Chewalla Drive interprise, Al. 36330

COLE, Stephen J. 94 125 Klaha Loop Millani, HI 95789 DUCK, Theodore A. 9 Buchanan Court Newport, RI 02840 EDWARDS, Floyd E. 569 Craig Road Carlisle, PA 17013

EDWARDS, Warren C. HHC, 4/7 Cav APO SF 96251 FROST, Gary C. 904 NE Pheasant Lane

BO4 NE Pheasant Lawton, OK 73507 GANNON, Terry C. 12904 Covington T Austin, TX 78727 GUNN, Thomas A. 8601 Etta Drive

Springfield, VA 22152 GUPPY, Chris M. 2935 Summerall Circle Ft Eustis, VA 23604

HAILES, Sherman W. 5575 E. Shields Fresno, CA 93727 JACKSON, David C. 24 Hope Terrace Carlisle, PA 17013 KEEFER, Gary L. 2278 Market Street

Leechburg, P KING, Boyd E. PA 15656 5523 Dunsmore Road Alexandria, VA 22310 KISLER, Alvin R.

PO. Box 1421 Telluride, CO 81435 KLUENDER, James L. 2042 Lecompton Road Leavenworth, KS 66048 LOFTIN, William D. 115 Thomas Lane

Prattville, AL 36067 McCORD, James H. HHC, 11th Avn Gp APO NY 09025

Lt. Colonels

MITTEER, Jack A. 2019 Freeport Lane Gilbert, AZ 85234 MOWERY, James L. 324-4 Doniphan Ft Leavenworth, KS 66027 MUMBY, Roger L.

581 Sumner Road Carlisle, PA 17013 NASH, William L. 6825 Coleman Road

Fort Hood, TX 76544 NELSON, Michael A. 420 Harlow Street Fayetteville, NC 28303 ORR, Robert, Jr. Frankfurt MILCOM, Box 1

APO NY 09700 PATTESON, Harry O. Jr. 4501 Overridge Drive Chester, W. 23831 ROBERTS, William E. DMI-USMA

West Point, NY 10996 RUDY, James J. 445B Bouquet Road Carlisle Barracks, PA 17013 SHEEHY, James J. Jr.

821 Watts Drive Huntsville, AL 35801 SWIFT, Ivan C. 7611 36th St Ct. W

Tacoma, WA 98466 TACKETT, John A. c/o Watton, 6749 N. Ojai Venture, CA 93001 TANGUAY, Paul K. TSM-SEMA

Ft Huschuca, AZ 85613 THOMPSON, Lee 4915 Gloxinia Court Annandale, VA 22003 VOSS, Daniel R.

P.O. Box 95 Darlington, MD 21034 WOOD, Gall W. 7303 Gardner Hills

Ft Campbell, KY 42223 WYATT, Jake W. HHD, 70th Trans Bn (AVIM) APO NY 09028

Majors

ACKERLY, William G. 3508 Woods Court Manhattan, KS 66502 ADAMS, John M. 244 CAC, 4th Bde, Box 1501 APO NY 09250 ADEE, Daniel S. 805 Englewood

Lansing, KS 66043 ANDERSON, William F. 1116 Leyte AFSC NORVA Norfolk, VA 23511 ATKINS, Frank G. 1506 B Casey Court Leavemonth, KS 66048 BISHOP, Gary M.

8600 Canima Spring Ct Springfield, VA 22152 BOWNS, Nicolas D.

1040 Drennan Park Fort Campbell, KY 42223 BROWN, Dennis C. SMC #2998, Nav. PG School Monterey, CA 93943 BURT, Nancy J. HHC, 11th Avn Gp

APO NY 09025 CLAFLIN, Robert C. 28 Dragoon Drive Fort Leavenworth, KS 66027 COLEMAN, Gary S.

3043A Stony Lonesom West Point, NY 10996 COMBS, John R. 809 River Run Clarksville, TN 37043

Majors

CORREIA, James R. 28 Buckner Avenue Fort Leavenworth, KS 66027 CULLING, Laurence J.

HHC, 4th Bde, 3d Armd Div APO NY 09165 DAVIS, Larry W. 205 Hancock

Fort Leavenworth, KS 66027 DEFORD, Roy S., Jr. 134 Martin Drive

DEGRASSE, Robert A.
HHC, 11th Avn Gp
APO NY 09025 DONLEY, Freemon R. 229 Hancock Avenue Ft Leavenworth, KS 66027 DRIVER, William L

79 3d Infantry Road Ft Leavenworth, KS 66027 EDWARDS, Steven G. 275 Hancock

Fort Leavenworth, KS 66027 FERGUSON, Mercer E. 103 5th Artillery Road Fort Leavenworth, KS 66027

FLUKE, Bryan C. 2928 Carnaby Street Indianapolis, IN 48229 GLASGOW, Frank L. 2022 Rutger St Louis, MO 63104

GOODWIN, William P. 4 Dragoon Drive Fort Leavenworth, KS 66027 HACKERSON, Michael W.

227 Valley Drive Lansing, KS 66043 HANCOCK, Rick 7 Walker Avenue KS 66027 Fort Leavenworth,

HARRIS, Stephen M clo Elsea, 20 Ennis Street Daleville, AL 36322 HART, Gerard 38 Dragoon Avenue

Fort Leavenworth, KS 66027 HEDGPETH, James L. BOQ Bn 104, Bldg 108 Fort Irwin, CA 92310 HENDRIX, Ossle L. 7 Dragoon Drive

Fort Leavenworth, KS 66027 HILL, Jeffrey S. 11623 Vantage Hill Rd., #12C Reston, VA 22090

HINOJOSA, Jose PSC Box 1584 APO MIA 34003 HUDGENS, Richard C. 13002 Percivale Drive Huntsville, AL 35803 JOHNSON, Terry L. 9521 Sandbur Drive

alinas, CA 93907 KREJCI, Michael F. 105 Harrand Creek Enterprise, AL 36330 LAMA, John A 8715 S. Kingston Avenue

Chicago, IL 60617 LONG, Clyde L. 2016 Marjorie Circle Leavenworth, KS 66048

LYNDE, Gary G. 300 Seminole Enterprise, AL 36330

MADDEN, Gary E.
6th Army CART, Buckley ANGE
Aurora, CO 80011

MADDOX, Dale F.

1949 Caledonia Road Cadiz, KY 42211

MARSHALL, A.R. Jr. 3306 Edenvale Road Fairtex, VA 22031 McCORD, Robert E. 6 Draggon Avenue Fort Leavenworth, KS 66027

Majors

McKENNON, Alton C., Jr. 49 4th Artillery Road Fort Leavenworth, KS 66027 McKENTY, Bruce G. 8019 65th St Ct W. Tacoma, WA 98467 MERCHEN, Lee A. 16 Howard Street Fort Rucker, AL 36362 MEYER, Stanley F. 201st Avn Co (Cbt) APO SF 96271

MILLER, Barry W. 94-152 Hokuala Place Millani, HI 96789 MORRIS, David

520-4 Kearny Avenue Fort Leavenworth, KS 66027 MULVENON, Michael T.

108 Gilbert NEGRETE, Bernardo C. HHC, 223d Avn Bn, PO. Box 3 APO NY 09025

NELSON, James P. 9879 Burke Pond Ct VA 22015 PARAMORE, Jerry S. 59 4th Arty Road FI Leavenworth, KS 66027 PARNELL, Rondle B. JUSMAGTHAI Box 18

APO SF 96346 PETERSON, Raymond E. 94 Third Infantry Road Ft Leavenworth, KS 66027

PLANT, John T. P.O. Box 1417 Centreville, VA 22020 PREWITT, David S. Quarters 700A, 7th Street Maxwell AFB, AL 36113 RANDLE, Robert B. II 310 Hancock

Fort Leavenworth, KS 66027 RANDOLPH, William J. 6805 24th Street Fort Hood, TX 76544 RATCLIFF, Ronald E.

2806 Turner Circle Dothan, AL 36303 RICHARDS, James G. 1157 Jeffrey Drive Crofton, MD 21114

70 4th Artillery Road Fort Leaverworth, KS 66027 RUSHO, Michael E. 100 Cahaba Drive

Enterprise, AL 36330 SCHILLEREFF, John L. 205th Spt Gp, Glenmore Road Troy, NY 12180 SCHOONOVER, John C.

189th GSAC APO NY 09165

SCHUPNER, Ronald E. 70 4th Artillery Road Fort Leavenworth, KS 66027 SCHWOEBEL, Charles G. 1232 Mindoro

Norfolk, VA 23511 SHEAHAN, Patrick J. 100 5th Artillery Road Fort Leavenworth, KS 66027 SIMMONS, Hollis

5061 W. Albatross Place Tucson, AZ 85710 SIMMONS, John W. 7710 Pine Springs Drive Orlando, FL 32819 SPENCER, Robert D. Jr. 7 Stilwell Avenue

Fort Leavenworth, KS 66027 STAADT, Thomas A. 2840 Woodland Drive Northbrook, IL 60062 STEVENS, Shelby T. 5014 W. Timbai ier Court Columbus, GA 31907

Majors

STEWART, Thomas F. PO. Box 257
Fort Campbell, KY 42223
SUMNER, Herman W. 251 Hancock Avenue Ft Leavenworth, KS 66027 SWANK, David W. 118 Iroquois Street Enterprise, AL 36330 TONEY, Gordon D. 5 Hancock Avenue Fort Leavenworth, KS 66027 TOWNSEND, Daniel J. 608 Pondview Killeen, TX 76541 TRAMMELL, Louis B 220 Hancock Avenue Fort Leavenworth, KS 66027 UMSTAEDTER, William B. 906 Cliffside Drive Harker Heights, TX 76543 VEIGA, Edwin F. 182 5th Artillery Road Fort Leavenworth, KS 66027 VINCENT, Richard L. 321 Pope, Apt 4 Ft Leavenworth, KS 66027 VRAZEL, Gary J. 306 Hancock Fort Leavenworth, KS 66027 WHITACRE, Chas. J. Ir 1002 Whispering Oaks Salado, TX 76571 WHITESIDE, Douglas R. 2712 S. 22nd Street Leavenworth, KS 65048 WHITSON, John A.

164 J Ave, Noad New Cumberland, PA 17070 WILDES, David G. 62 4th Artillery Road Fort Leavenworth, KS 66027

WILKINSON, Dennis 93 3rd Infantry Road Ft Leavenworth, KS 66027 WRIGHT, Dennis L.

306 Hannock Fort Leavenworth, KS 66027

Captains

BAKER, Anthony A HHT, 4th Sqdn 11 ACR APO NY 09146 BLACKBURN, Myron V. 1b Apache Drive Enterprise, AL 36330 BRAUN, William G. 285 S. Broadway, 2d Floor Saratoga Springs, NY 12866 BRIGGS, Randall N. CMR 3, Box 6791 Fort Rucker, AL 36362 **BUCHAN, Grady** 35-9 Queens Way Camillus, NY 13031

CARROLL, Lawrence W. 114-H Windsor Castle Dr

Newport News, VA 23604 COUCH, Jerry R. 1111-D Thompson Circle Fort Eustis, VA 23604 COURTS, Michael P. 805 Cedar Oaks Harker Heights, TX 76543 CRADDOCK, Brian M.

P.O. Box 4157 Fort Eustis, VA 23604 CULP, Martin J. II 50 Bridge St, Rm 140 Manchester, NH 03101

DAVIS, Richard A. HHC 223d Avn Bn, Box 5 APO NY 09025 DOWNEY, David A. 7 Glasgow Circle Edwards AFB, CA 93523

DWYER, Stephen R. 303 Emerald Drive Enterprise, AL 36330

Captains

FIELDS, Patricia B. 19 Pine Drive osevelt, NJ 08555 FINLEY, Marsha S. 12451 Horizon Vg Dr. Apt C Spanish Lake, MO 63138

FURR, Philip 4th Student Bn Fort Rucker, AL 36362 GANT, Ronald D. 1504 Patrick Drive Junction City, KS 66441 GROTKE, Mark L.

HHD, 52nd Cbt Avn Bn APO SF 96301 HALL, Heyward, Jr Rte 3, Box 348

Enterprise, AL 36330 HAM, Johnnie A. 905 Clearbrook Course Marietta, GA 30064 HAMPTON, Greg R. 111 Valley View Drive

Enterprise, AL 36330 HASSEL, Michael E. 11th ACR Avn Squad APO NY 09146

JENNINGS, James Rte 3, Box 201, Valley View Dr Enterprise, AL 36330 JOHNSON, Thomas A.

408 Abbey Circle Abingdon, MD 21009 KNIGHTON, Christine 2509 A Bermuda Drive Killeen, TX 76542

LANG, Jeanne M. 205 Keirns Court Ozark. AL 36360 LEBOEUF, Maureen K. 574-C Connor Road West Point, NY 10996 LEE, Fredrick L

840 Johnson Drive Magee, MS 39111 LEIST, Edward G.S. 620 West University Pkwy Baltimore, MD 21210

LLOYD, Karen D. 4th Bde, Bax 2237 HHC, 4th Bde, APO NY 09250

MATSON, Jerry F. Rte 1, Box 354-D Ashland City, TN 37015 McGOWAN, James P. P.O. Box 33752 Fort Lewis, WA 98433 MERCADO, Ruben

102 Raven Drive rprise, AL 36330 MINADEO, Gary A. 62 Endl Avenue

62 Endl Avenue Fort Rucker, AL 36362 NAPOLI, John C. Jr. 1705 Williamsburg Place Clementon, NJ 08021 O'BRIEN, Thomas J. CMR 3, 8x 8133, E Co, 4th ATB Fort Rucker, AL 36362

ORTIZ, Miguel A 59 Hook Road

Ramey, PR 00604 PACK, John E. 48 Dragoon Drive Fort Leavenworth, KS 66027 PANKEY, Rodney A.

51 Appaloosa Deridder, LA 70634 PHILLIPS, Gregory S. 5827 S. 296th

Auburn, WA 98001 PRY, Gerald R. 930 Lacon Drive Newport News, VA 23602 RIGSBEE, Thomas E.

59 Delafield Drive Fort Leonard Wood, MO 65473 SALES, Vance HHT, 11 RCAS, 11 ACR APO NY 09146

Captains

SCHUETT, Robert J. Box 1196, NPGS Monterey, CA 93943 SUMMERS, Kim L. A Tp, 2 CAS, Box 62 APO NY 09092 TARR, Andrew M. 43 Forest Park Apts Enterprise, AL 36330 WALTERS, Robert G.

144 Tide Ave Monterey, CA 93940 WELDON, Marcus J. HSC, 10th AHB, Box 527 APO NY 09140 YARBOROUGH, Michelle F.

118 Springdale Way Hampton, VA 23666 Hampton, VA 23666 ZIENTEK, William J. HHT, 1/17 Cav, Box 6 Fort Bragg, NC 28307

1st Lieutenants

ADAMS, Caroline ADAMS, Carosine
P.O. Box 826
F'sted, St. Croix 00840
BEVILLE, Stephen C.
2442b S. 10th Street
Fort Lewis, WA 88433
BROWN, Dennia T.

108 Winchester Trail 108 Winchester Trail Smyrna, GA 30080 BUCHANAN, John D. 422 Acklen Park Dr, Apt 3 Nashville, TN 37205 CHAMPION, Pamela J. 401 Twin Creek Dr, No. 8D

en, TX 76541 COHEN, Robert H.

A Co, 205th Trans Bn, Box 114 APO NY 09165 COLBERT, Michael B. 2400 Ocean Pines

Berlin, MD 21811 DEFOOR, Barry A. 41 Boyce Lane Fort Rucker, AL 36362 EDMONDS, Neal J. 172-E Treetop Driv Fayetteville, NC 29301

FOX, Roy W. 4245-8 599th Street Fort Wainwright, AK 99703 KUCH, Sharman L

ROCH, Sharman L.
B Co, 18 AHB, Box 113
APO NY 09185
ROBBINS, Michael J.
5216 Lee Road, Apt. 4
Maple Heights, OH 44137
SCANTLAN, Donald L. P.O. Box 797

Daleville, AL 36322 SOOS, John A. 79 Bowline Stree Barnegat, NJ 08005 SOUZA, Mark K. Box 99, 207th Avn Co APO NY 09102 SPARKS, Daniel C. HHC 7th ATC Box 3504 APO NY 09114

2nd Lieutenants

CUMBIE, Robert M. 220th AHC Box 1645 APO NY 09250 GARMAN, Larry 206 Smith Stre Benton, IL 62812 HAGER, Jay 501E 4th Street Spencerville, OH 45887 McINTOSH, Richard W.

P.O. Box 8014 Biggs Field, TX 79908 MERRITT, Layne B. 230 Field Stone Lane, 102 Newport News, VA 23602

1st Lieutenants

PETERS, Mark J. 18 MI Bn, Box 106 APO NY 09108

CW4s

DYKES, James A. P.O. Box 3004 Gillette, WY 82716 GAMBLE, William H. HHC, 4th Bde, 3AD APO NY 09165 GIBSON, William E. 612 Willow Oaks Drive Ozark, Al. 36360 HOLLIDAY, Donald B. 219 Cheyenne Avenue Colorado Springs, CO 80903 MacDONALD, Joseph C. 201 Harrand Creek Drive Enterprise, AL 36330 MILLER, John R. RD 4, Box 4499 Berwick, PA 18603 ROSSITER, David R. 1515 Industrial Way, MD20A Belmont, CA 94002 RYAN, Dennis A. B Trp, 4/7 Cav, Box 98 APO SF 96524

VAUGHAN, Carroll A. 13 Black Forest Drive

VIETOR, Klaus L.

PO. Box 166 APO NY 09359

WAGNER, Randy D.

vannah, GA 31410

C Trp, 1/9 Cav, 1st Cav Div Fort Hood, TX 76544 WESTBROOK, Roy A. 430 Cottonwood Copperas Cove, TX 76522 WINFREY, Ralph V. 94-390 Hamau Street

Walpahu, HI 96797

CW3s

BAKER, James W. 7916 NW Terrace Hills Lawton, OK 73505 COATES, David A. Box 192, 11th CAS, 11th ACR APO NY 09146 DEXTER, Stephen H. L-2 Regency Place Lawrence, KS 66044 GERSON, Rodney O. 9480 Vollmerhausen Drive Columbia, MD 21049 JOHNSTON, Fletcher S. 5340 Holmes Run Pkwy, 104 Alexandria, VA 22304 NORTON, Bruce M. 19 Barrington Circle Savannah, GA 31419 OSBURN, Charles L. 2210 Charlestown Road Clarksville, TN 37043 ROUNTREE, Ed 3706 Raintree Drive Tucson, AZ 85741 SIMS, Hal D. 2511 Hoefer Avenue Rapid City, SD 57701 SKAADEN, Richard A. 2901 Willowhend Drive Killeen, TX 76541

CW2s

BERRY, Charles R. 163 Kirby Drive Clarksville, TN 37042 **BOLEY, James I.** 392B Circuit Lane Newport News, VA 23602 ESTRADA, Roberto 101 W. Centex Expwy, No. 302 Killeen, TX 76541

CW2s

FERGUSON, Danny L. 55th TAMO APO NY 09185 HEADRICK, Jo L 501 W. Cent Tex. Expwy, #2105 Killeen, TX 76541 HOLYCROSS, Mark B. D Troop, 3/7 Cav APO NY 09702 APO NY 09702 HOWARD, David Jon 8868 N. Prospect Street Nilse, IL 60648 KENNY, David A. 417-5 Jane Roed Boy, Al 38081 LAGUNA, Daniel, Jr. 1142 B Drennan Park Fort Campbell, KY 42223 O'BANNON, Gareth A. Box 656A Locust Grove, VA 22508 SCHWARTZBERG, Richard R. 63rd Med Det APO NY 09180 WALKER, Wayne K. A Co, 501st AHB, Box 2222 APO NY 09250 ILLIAMS, Ronny G. HSC, 8th AHB APO NY 09185 WILSON, William D. A Co. 394th Avn Bn. Box 315 APO NY 09061 WOLD, Robert S. 116 Piercefield D Richmond Hill, GA 31324

WO1s

BAXTER, Scott C.

305 Tartan Court Favetteville, NC 28301 BUCK, Stanley J. 178th CAC, CAB 2AD Fort Hood, TX 76542 DESROCHES, Pierre 3715 Hickory Hill Drive Colorado Springs, CO 80906 LASATER, John M. 205 Stephanie Drive Ozark, AL 36360 NEWMAN, Ryan B. 377th Med, Box 39 APO SF 96301 PRIDE, Marden Box 752, 62nd Avn Co APO NY 09039 REYNOLDS, Randall L. Rie 9, Box 870 Bucyrus, MO 65444 STORY, Thomas W. PO. Box 5231 Fort Hood, TX 76544 STOVER, Allen V. 306 Oak Drive Lake Jackson, TX 77566 WASHBURN, Lon C. 944 14th Street Marton, IA 52302 WELSH, Daniel W.

Enlisted GETKIN, Jay E. SGT

MILLS, Ricky 1SG 232 No. School Street Carthage, NY 13619 PRICE, Walter E4 Rte 4, P.O. Box 598 Lugoff, SC 29078 VAN DYKE, Arnold T. E7 10 Princess Anne Circle Newport News, VA 23602 WEAVER, Richard A. SGT PSC Box 5796 APO MIA 34001

2372C Smith Circle Fort Eustle, VA 23604

Bldg 2997, Box 105 Fort Campbell, KY 42223

Enlisted

WERMANN, Paul K. SFC 13625 Avebury Dr., No. 11 Laurel, MD 20708 WOJCIK, Ray P. E5 1400 Hancock Apt. 709 Daytona Beach, FL 32014

Civilian BORGMAN, Dean C./McD 5000 E. McDowell, 530/B325 Mesa, AZ 85205 BRONHEIM, David/CASA 14102 Sullyfield Cir, 200 Chantilly, WA 22021 Chantilly, VA 22021 CHANDLER, Jimmy J. PSC Box 1746 APO MIA 34003 CHARLTON, Scott E.
4311 Santa Cruz Avenue
San Diego, CA 92107
COFFIN, Robert T.
5000 E. Mcdowell, 530/B250 Mosa, AZ 85205 CRUCE, Robert D. 155 Country Roads Drive Stockbridge, GA 30281 DE URIARTE, Juane/CASA 14102 Sullyfield Circle, 200 Chantilly, VA 22021 DEWITT, Joyce PO. Box 256 Earlysville, VA 22936 ECHO, Daniel PO. Box 516 Springfield, NJ 07081 EFURD, Ray 7220 Richardson Road vrna, GA 30080 FREELAND, Ron S 350 Collins Rd, NE Cedar Rapids, IA 52498 FULLER, William L. Rte 8, Box 167 Chippewa Falls, WI 54729 HANSON, Dennia M. 1426 Park Court St. Charles, MO 63303 HENRY, Thomas J./Kollsman 220 Daniel Webster Hwy. Merrimac, NH 03054 HILL, Stewart F. PO. Box 39 Drewsville, NH 03604 HOPKINS, Joseph A. Citadel Station, Box 1442 Charleston, SC 29409 JAGGERS, Joseph N./A&S Corp PO. Box 728 Belton, TX 76513 KENNEDY, Edward J. PO Boy 204 Middle Granville, NY 12849 KING, Paul D. 15317 Beaufort Court Corpus Christi, TX 78418 MC ATEE, W.C./Litton Sys. 333 W. 1st St., Ste. 356 Dayton, OH 45402 MILLER, Jon M. 46950 Sentinel Drive Fremont, CA 94539 MOE, Timothy A./Hughes Acft 700 Boulevard South, 501 Huntsville, AL 35802 MORGAN, Frank US Soldiers/Airmans Home Washington, DC 20317 PEREZ, Veronica L. 5018 Cosner Drive Corpus Christi, TX 78415 PINEO, Ralph E. III POB 2271, Hg USAREUR APO NY 09403 ROSSE, Andrea/CASA 14102 Sullyfield Cir, 200 Chantilly, VA 22011 RYAN, Joseph P.O. Box 255

Civilian

1001 Flynn Road Camarillo, CA 93011 SIFUENTES, Raul A. 2615 Brightwell Drive Wilmington, DE 19810 SIJANSKY, Frank 3706 Shoal Creek Circle Corpus Christi, TX 78410 ST. JOHN, John E.

SAWYER, Marshall W.

59 Carter Road Thornton, PA 19373 SUEVER, William H. RR 2, Box 376A

Bolleville, IL 62221 TAYLOR, Frank D./West'n Gear 1235 Jeff Davis Hwy, 406 Arlington, VA 22202 THOMPSON, Date J. PO Box 256 Earlysville, VA 22936 WERNER, Richard E. imoor Ave, Garrards 6A Late

Cross, Bucks SL9 8LL England Retired ADAMS, Rodney A. MAJ 2613 Walnut L Plano, TX 75075 ANCELIN, Donald R. LTC 528 Gold Street is River, NJ 08753 ATWOOD, Walter W. MAJ 5521 E. Gelding Drive Scottsdale, AZ 85254 BAEB, David E. COL 503 Jetlerson Street Waupaca, WI 54991 BAUMGARTEN, John R. COL 291 Chestnut Street San Carlos, CA 94070 BROWN, Patty E. COL 27 Dunbar Road Palm Beach Gdns, FL 33418 CHERNE, Milton P. LTC 2929 C Cowley Way San Diego, CA 92117 CRASK, Garnett E. LTC 110 Whitfield Street Athens, AL 35511 DENSFORD, Charles F. COL ERAU, Box 7809, Reg. Air Daytona Beach, FL 32014 Airport DRAKE, Van T. LTC P.O. Box 280 Midway, UT 84049 FRASER, Harry L. LTC 8315 E 63rd S. Derby, KS 67037 HENDRICKSON, Paul L 36 Telluride St. Peters, MO 63376 HOFFMAN, Glenn F. LTC 2922 Gainesborough San Antonio, TX 78230 HOUSTON, Steven P. CW3 208 S. 200 W. Rexburg, ID 83440 JONES, Harry L. COL 525 Foxgate Otrs Chesapeake, VA 23320 KUNSMAN, Robert A, CW3 1323 W. Lajolla Blvd, Apt 42 Goodyear, AZ 85338 LANGLOIS, Arthur R. LTC P.O. Box 1002 New Smyrna Beach, FL 32070 RESTIVO, Charles J. CW4 460 Bradley Avenue, NE Palm Bay, FL 32907 THOMPSON, James B. COL P.O. Box 764 Salado, TX 76571 TYSON, Robert M. LTC Rte 2, Box 229F

Elberta, AL 36530 WALKER, John J. COL 1306-3A Randolph Ave

Huntsville, AL 35801

Atlantic Highlands, NJ 07716



Sept.-Dec., 1986 Calendar of AAAA Chapter Activities

	OCTOBER						
1				1	2	2	4
1	5		7	1	\$	10	11
i	12	13	14	15	15	17	18
ı	18	20	21	22	23	24	25
	28	27	26	29	30	31	3.5

September, 1986

- ■ Sept. 24. Army Aviation Center Chapter. Professional-social dinner meeting. Guest speaker: W.E. Butterworth (Pen name—W.E.B. Griffin, author of the "Brotherhood of War" series); "Researching the series". Main Ballroom, NCO Club.
- ■ Sept. 25. North Texas Chapter. Professional-social dinner meeting. Charles D. Gemar, U.S. Army Astronaut, guest speaker; "Application of NASA technologies to Army Aviation Programs." Great Southwest Holiday Inn, Highway 360, Arlington.
- Sept. 26. Mainz Chapter. Late afternoon business-social meeting. Discussion of Chapter's 1987 program. Beverages and snacks. Village Inn OOM, Mainz University Area.
- ■ Sept. 27. Army Aviation Center Chapter. "Run for the Museum." 5K Race and One Mile Fun Run. T-Shirts to first 400 5K runners. \$1.00 entrance fee for Fun Run. All proceeds go to the Army Aviation Museum. Checks payable to "AAAA Run."
- Sept. 29. Mid-America Chapter. Professional luncheon meeting. Message of GEN John A. Wickham, Jr., to Army Aviation videotape). Golf Bar, Ft. Riley Officers' Club.

October, 1986

- ■ Oct. 1. Washington, D.C. Chapter. Professional-social dinner meeting. MG Ellis D. Parker, CG, USA Aviation Center, guest speaker; "New Trends in Army Aviation." Ballroom, Ft. McNair Officers' Open Mess.
- ■ Oct. 7. Lone Star Chapter. After dinner professional-social meeting. Sergel Sikorsky, United Technologies Corporation, guest speaker; "Update on Sikorsky Programs." Austin Army Aviation Support Facility Classroom #2. AAAA Members only.
- ■ Oct. 8. Chicago Area Chapter. After dinner professional-social meeting. LTC "Pete" Peduzzi, FAA; "The FAA Heliports/Airports Program". Palwaukee Motor Inn, Palwaukee Airport, Wheeling, III.
- ■ Oct. 9. Connecticut Chapter. Professlonal-social dinner meeting. Joseph P. Cribbins, Special Assistant to the DCS for Logis-

- tics, DA, guest speaker; "Aviation Support; How to get to the 21st century". Hillandale Country Club. Trumbull, Conn.
- ■ Oct. 10. Taunus Chapter. Late afternoon business-social meeting. Beverages and snacks. Wiesbaden Air Base Club. AAAA members only.
- Oct. 13. National Executive Board. Professional-social dinner meeting. Residence of MG and Mrs. Richard D. Kenyon, Quarters 12B, Ft. Myer, Va.
- ■ Oct. 14. National Executive Board, Quarterly business meeting. 2 p.m., Annapolis Room, Sheraton Washington Hotel.
- Oct. 15. The Citadel Chapter. After dinner professional-social meeting. MAJ Michael Masterson, guest speaker; "Air Cavalry." Free refreshments. Jenkins Hall Auditorium.
- ■ Oct. 18. Lindbergh Chapter. "First Annual AAAA Road Rally A Scavenger Hunt on Wheels." Bring the family prizes and free beverages at the end of the journey. Starting point: SLASC PX parking lot.
- ■ Oct. 18. Ft. Hood Chapter. "3rd Annual Pegasus Run, Championship Chill Cookoff, and Car Show". Fee: \$5 advance registration, \$7 on day of the run; T-Shirts to all entgrants; free Chill. Yellow Ribbon Park, Ft. Hood.
- ■ Oct. 19. Corpus Christi Chapter. "Family Picnic". Chicken, Hot Dogs, and All the Trimmings. CP & L Park, Corpus Christi, Texas.
- ■ Oct. 21. Indiantown Gap Chapter. Professional luncheon meeting. LTC Eric Bramen and MAJ William Squires, NGB Aviaion Division Operations, guest speakers; "Army of Excellence" briefing. Indiantown Gap Community Club.

November, 1986

- ■ Nov. 1. USAREUR Region. "7th Annual USAREUR AAAA Ball". Guest speaker TBA. Entertainment. Formal/Black Tie. Heidelberg Officers' and Civilians' Club. AAAA members only.
- ■ Nov. 4-5. Fourth Aircraft Survivability Equipment (ASE) Symposium sponsored by the AAAA. Classified sessions and Awards Dinner. First presentation of the "Aircraft Sur-(CALENDAR/Continued on Page 52)

Briefs

New Chapter Officers: The Taunus Chapter has elected LTC Paul N. Yacovitch as its new President; LTC George R. Spiczak (SrVP); and CPT Daniel S. Brown (Trea).

MAJ Ricky C. Simmons has been elected as the VP, Programming, at the S. Californ-

ia Chapter.

The Corpus Christi Chapter has made some organizational changes. They installed Joe J. Guzman (SrVP); Ms. Virginia Allen (Sec); Ms. Barbara Riebschlager (Trea); Ed Douglas (VP, Activities), and Homer Garcia (VP, Benefits).

At the Delaware Valley Chapter, Thomas R. Caramanico and MAJ Steven Ochsner have been elected as VP, Membership and VP, Military

Affairs respectively.

Three-Timer

The AAAA's largest membership activity, the Army Aviation Center Chapter, has installed BG Rodney D. Wolfe as its new President. General Wolfe had served as President of the Greater Atlanta Chapter and the Air Assault Chapter on earlier tours.

Recognition

The Rhine Valley Chapter membership voted to sponsor the attendance of ten outstanding AAAA soldlers at the USAREUR Region's forthcoming AAAA Ball on November 1. The names of the top soldlers would be solicited and a Chapter drawing would be held to select ten.

Did you know . .

.. that some 9,016 Individual votes were cast for the 22 candidates during the recent Hall of Fame balloting, and that the seven '86 Inductees received votes on more than one-third of the ballots?



AAAA Overview

BB A First!

This issue carries the Association's Initial bi-annual "Aviation Soldier" professional-personal membership directory. Invited to participate were some 1,600 AAAA members in grades E-1 through E-9.

■■ Hall and farewell!

The Association wishes to recognize the substantial personal efforts made by four departing Chapter Presidents: BG Rudy Ostovich (Aviation Center Chapter), COL Ron Bellows (Colonial Virginia), LTC Julian Sullivan (Rhine Valley), and LTC Edward Chandler (Taunus). Each of the four provided strong Chapter leadership during their terms of office.

The AAAA welcomes their replacements, each of whom is a new member of AAAA National Executive Board: BG Rod Wolfe (Aviation Center Chapter), COL "Duke" Vasey (Colonial Virginia), LTC Jake Wyatt (Rhine Valley), and LTC Paul Yacovitch (Taunus).

BB Innovations worthy of duplication

You may not pick it up if you skip reading this month's AAAA Calendar, but several of the Chapter's are conducting some very unique membership activities. For example, the Lindbergh Chapter will hold its



first "Annual AAAA Road Race", subtitled by the St. Louis Chapter of the AAAA as a "Scavenger Hunt on Wheels." Quoting from the meeting notice, "Drivers bring their best headgear and plenty of gas." There will

be Chapter prizes and free refreshments at the end of this Saturday morning. Oct. 18 gathering.

The Fort Hood Chapter obviously believes in catering to the wishes of as many members as possible in conducting a meeting. Believe-it-or-not, on Saturday, Oct. 18, the members will participate in their 3rd Annual Pegasus Run, a Championship Chili Cookoff, and a Car Show! The giveaways will include a T-Shirt to each entrant, and free chili to all!



The Aviation Center Chapter Is also "on the run." It conducted a Sept. 27 "Run for the Museum" with the modest \$5.00 entry fee being donated to the Museum. So—there's a Run and Eat at Hood, a Run and Shower at Ft. Rucker, and plain old "Eat" at Corpus where the Chapter plans a mammoth "Family Picnic" Oct. 19



Sept.-Dec., 1986 Calendar of AAAA Chapter Activities

OCTOBER						
			1			
12	13	14	15	18	.17	18
15	20	21	22	23	24	25
26	27	28	29	30	21	

November, 1986 (Continued)

vivability Equipment Award" sponsored by Loral Electronics. MG Story C. Stevens, Ret., MC. Northrop Defense Systems Division, Rolling Meadows, Illinois,

- ■ Nov 13. Checkpoint Charile Chapter (Berlin). Late afternoon professional-social meeting. Program:Planning for Christmas activities. Free refreshments. TCA Aviation Detachment Classroom.
- Nov. 13. Corpus Christi Chapter. Professional luncheon meeting. William P. Jones, Vice Pres., Boeing Vertol Co., guest speaker. Limited seating. NASD Officers' Club.
- ■ Nov. 14. Indianapolis Chapter. Professlonal-social dinner meeting. LTC James H. Fraser, Pan American Games Counter-Terrorism Officer, guest speaker; "Industrial Terrorism". Murat Shrine Temple.

December, 1986

- Dec. 4. 1986 Hall of Fame Induction Ceremonles. By Invitation. 3 p.m., Classroom #1, Building 5206, USA Aviation Center, Ft. Rucker. Ala.
- ■ Dec. 4. Army Aviation Center Chapter. Professional-social dinner meeting honoring the 1986 Hall of Fame Inductees and the "Avlation Trainer of the Year." Guest speaker TBA. Formal/Black Tle. Ft. Rucker Officers' Open Mess.
- Dec. 5. National Executive Board. Quarterly business meeting. 1:30 p.m., Classroom #1, Building 5206. USA Aviation Center, Ft. Rucker, Ala.

January, 1987

- Jan. 12-13. 1987 Nat'l Convention Committee. Initial coordination meeting of Ft. Worth principals. 2 p.m., Tarrant County Convention Center, Ft. Worth, Texas.
- Jan. 13 . North Texas Chapter. Professlonal-social dinner meeting. Arthur H. Kesten, Executive Vice President-AAAA, guest speaker; "Get ready, Ft. Worth!" Hyatt Regency, Ft. Worth, Texas.

February, 1987

- Feb. 6-7, AAAA National Awards Committee. Selection of 1986 AAAA National Scholarship Winners and CY85 AAAA National Award Winners, Ft. Myer, Virginia.
- Feb.4-5. The 13th Annual Joseph P. Cribbins Product Support Symposium sponsored by the Lindbergh Chapter-AAAA. Airport Hilton Hotel, St. Louis, Missouri. Details available from AAAA National Office 0/a Nov. 15.

March, 1987

■ Mar. 15-21. AAAA SkI Week and the 1987 USAREUR Regional Convention. Armed Forces Recreation Center and Kongresshaus, Garmisch, Germany. Details available from the AAAA National Office 0/a Dec. 15.

April, 1987

■ Apr. 8-12. 1987 AAAA National Convention. Tarrant County Convention Center and five area hotels, Ft. Worth, Texas. Details available from AAAA National Office, Jan. 2.



AAAA AWARD—SSG Aaron Villalpendo (center) Is shown receiving an AAAA plaque sponsored by Sikorsky Aircraft in being selected as the "NCO of the Month". Jack Hill, left), Sikorsky's representative at the USA Aviation Center, makes the presentation. SP4 James K. Plette (right) also was cited by AAAA in being the "Aviation Soldier of the Month" for July. Both awardees are members of Company C (Pathfinder/Airborne), 509th Parachute Infantry Regiment, 1st Aviation Brigade (Air Assault). The AAAA now provides compilmentary memberships to selectees at four participating Chapters.

AAAA offers \$44,000.00 in scholarships to twenty 1987 college-entry Freshmen

BACKGROUND — The AAAA Scholarship Foundation, a separate non-profit educational activity created to provide scholarship aid to the sons and daughters of AAAA members and deceased members, announces the availability of \$44,000 in assistance funds for the 1987 collegeentry year.

1987 AWARDS — Twenty scholarships will be presented — One \$8,000 four-year scholarship (\$2,000 a year); and several \$4,000 four-year scholarships (\$1,000 a year), to include the William B. Bunker Memorial Scholarship limited to Engineering School applicants; and several \$2,000 two-year scholarships (\$1,000 a year).

AWARD PHILOSOPHY — Operating on the premise that ample scholarship assistance is available to those in need, the AAAA National Scholarships are awarded primarily on the basis of academic merit and personal achievement. The AAAA seeks to honor those outstanding students whose well-rounded secondary school activities indicate solid career potential.

APPLICATION PROCEDURE — Student

applicants are asked to request the appropriate application forms by writing to the AAAA Scholarship Foundation at 1 Crestwood Road, Westport, CT 06880. Requests for applications must be received on or before December 15. All forms, together with other supporting data, must be returned to the Foundation on or before January 20 to receive Awards Committee consideration. The student-prepared application should state the full name of the applicant's parentmember and address of student if different

ELIGIBILITY CRITERIA — An AAAA applicant must be unmarried, a citizen of the United States, and a high school senior who has applied to an accredited college or university for Fall 1987 entry as a freshman. Program participation is limited to the children of members with an effective date of membership on or before March 31, 1986.

SELECTION AND NOTIFICATION — Selection of winners will be made by the 22-member AAAA National Awards Committee during the February 15-28 period with each applicant to receive a list of the winners not later than April 1.

Application Form for	AAAA Nation	al Scholarships
APPLICANT	'S NAME (PLEASE PRINT)	
	STREET	
CITY	STATE	ZIP
PARENTS NAME	RANK/GRADE, IF	APPLICABLE
PA	RENT'S ADDRESS	
CITY	STATE	ZIP



Solicitation now underway for CY86 AAAA National Awards; Jan. 15, 1987 suspense date set

"Award Presentations"

Seven AAAA National Awards for accomplishments made during Calendar Year 1986 will be presented at an Annual Awards Luncheon on April 9 and an Awards Banquet to be held on April 10 at the 1987 AAAA National Convention In Ft. Worth, Tex. The Individual awards will be made on Friday; the unit awards will be presented on Saturday. Senior members of the U.S. Army and U.S. Army Aviation will be invited to present the AAAA's top awards on both occasions.

"Army Aviator of the Year Award"

Sponsored by the Sikorsky Aircraft Division, this award will be presented "to the Army Aviator who has made an outstanding individual contribution to Army Aviation during the awards period encompassing the previous calendar

year." Membership in AAAA is not a requirement. A candidate for this award must be a rated Army Aviator in the Active U.S. Army or Reserve Components, and must have made an outstanding individual achievement.

"Aviation Soldier of the Year Award"

Sponsored by Bell Helicopter Textron, this award will be presented "to the enlisted man serving in an Army Aviation assignment, who has made an outstanding individual contribution to Army Aviation during the awards period encompassing the previous calendar year."

Membership in AAAA is not a requirement. A candidate for this award must be serving in an Army Aviation assignment in the Active U.S. Army or in the Reserve Components, and must have made an outstanding individual achievement.

"Outstanding DAC of the Year Award"

Sponsored by the Boeing Vertol Company, this award will be presented "to the Department of the Army Civilian who has made an outstanding contribution to Army Aviation in the awards period encompassing the previous calendar year." Membership in AAAA is not a requirement for consideration. A candidate for this award must be a current Department of the Army Civilian.

"James H. McClellan Aviation Safety Award"

Sponsored by the many friends of Senator John L. McClellan in memory of his son, James H. McClellan, a former Army Aviator who was killed in a civil aviation accident in 1958. The award is presented to any individual who has made an outstanding contribution to Army Aviation safety during the awards encompassing the previous calendar

period. Membership in AAAA is not a requirement; any individual, military or civilian, is eligible as a nominee for this award. The award is NOT intended to be given for competitions between units for safe flying, or for the accumulation of operational hours without accidents by any aviation unit or individual.

"Robert M. Leich Special Award"

Sponsored by the Association, the Award is named in memory of Brig. Gen. Robert M. Leich, the AAAA's first president (1957-1959) and Chairman of its Awards Committee for 23 years. Normal-

ly given to a unit for distinguished aviation-related service over an extended period, the Robert M. Leich Special Award may be presented to an individual recipient.

"Outstanding USAR Aviation Unit Award"

Sponsored by the Avco Lycoming Division, this award will be presented "to the U.S. Army Reserve aviation unit that has made an outstanding contributionto or innovation in the employment of Arriy Aviation over and above the normal mission assigned to the unit during the AAAA awards period encompassing the previous calendar year." Any U.S. Army Reserve aviation unit or organization that has met the foregoing criteria is eligible for award consideration.

"Outstanding ARNG Aviation Unit Award"

sponsored by the Avco Lycoming Division, this award will be presented "to the Army National Guard aviation unit that has made an outstanding contribution to or innovation in the employment of Army Aviation over and above

the normal mission assigned to the unit during the awards period encompassing the previous calendar year." Any Army National Guard aviation unit or organization that has met the foregoing criteria is eligible for consideration.

"Outstanding Aviation Unit of the Year Award"

Sponsored by McDonnell Douglas Hellcopters, this award will be made "to the aviation unit that has made an outstanding contribution to or innovation in the employment of Army Aviation over and above the normal mission assigned to the unit during the awards period encompassing the previous calendar year." Any Army Aviation unit or organization that has met the foregoing criteria is eligible.

Administrative Details

ACCOMPANYING DATA FOR INDIVIDUAL AWARDS: Documentation should include the nominee's name; his unit assignment, unit name, and address; and the name of his current unit and commander. A cover sheet should provide a brief outline of not more than 100 words citing the main reason(s) for the

nomination. Detailed supporting information should be attached as inclosures; and be limited to 1,500 words or three pages (whichever is greater). The documentation should be typed, and must include a recent photo and the nominee's blog sketch. Winners will be asked in March to provide add'i "sildes".

ACCOMPANYING DATA FOR ALL UNIT AWARDS: Documentation should include the name and address of the unit, and the name of the present commander and senior NCO. A cover sheet should provide a brief outline of not more than 100 words citing the main reason(s) for the nomination. Detailed supporting information may be attached as inclosures

and is limited to 1,500 words or three pages (whichever is greater). Photos of BOTH the commander and senior NCO must accompany the nomination. Winners will be asked in March to provide add! "sildes". This form may be reproduced locally. Receipt of each nomination will be acknowledged by the National Office of the AAAA.

SUSPENSE DATE: The nomination(s) and accompanying data should be mailed before 15 Jan. to: AAAA Nat'l Awards Chair-

man, 1 Crestwood Road, Westport, Connecticut 06880. Please use stiffeners to protect the photo(s) being submitted.



Limitless flexibility.

Flying into the heat of battle. Moving men and materiel through hostile territory. Operating in desert heat and mountain cold. To accomplish its many missions, Army Aviation makes severe demands on its helicopters. For troop transport. Combat resupply. Rapid deployment. Forward assault. Reconnaissance. SAR. Medevac.

Only one helicopter has the flexibility to do so much. And the potential to do even more. BLACK HAWK.



The first. The finest. The future.

