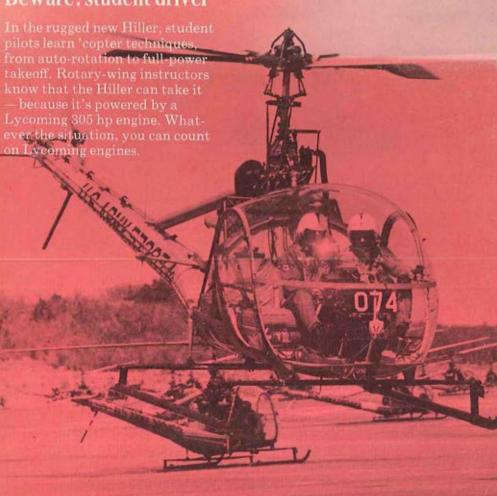
## ARMY AVIATION

## Beware: student driver



Lycoming

Division—Avco Corporation Williamsport, Pennsylvania chinook

**PROGRESS** 





SUMMARY:



## CH-47A CHINOOK CONTINUES WATER LANDING OPERATIONS AT FORT BENNING....

On 22 January, the 228th Assault Support Battalion of the 11th Air Assault Division began water operations with their CH-47A Chinook assault transport helicopters. These water landings, which were the first to be executed by an operational Chinook battalion, were repeated to allow pilots to gain maximum information. The photo above was taken during similar water landing tests at the Army Aviation Test and Evaluation Board at Fort Rucker. The Chinook on the left is the 11th Air Assault Division aircraft piloted by Lt. Col. Benjamin S. Silver, commanding officer of the 228th, and CWO Denver Kidd.

BOEING

VERTOL DIVISION

## ARMY AVIATION

## VOL. 15-NUMBER 2 FEBRUARY, 1965

■ 1964 MILESTONES7
by Brigadier General John J. Tolson,
Director of Army Aviation, OACSFOR
■ USAPHS TESTS TH-55A13
by Colonel Kemuel K. Blacker, Com-
mandant, USAPHS, Fort Wolters, Tex.
■ SPACE UTILIZATION17
by Capt. Gerald D. MacDowell, 228th
Assault Support Helicopter Battalion
■ THE MONTH'S TAKEOFFS2
Permanent and Temporary Changes
of Residence during Dec., '64-Jan., '65
■ PHOTOCHART29
Aviation Elements, U.S. Army John F.
Kennedy Center for Special Warfare
■ AA IN PHOTOS24-34
January-February News Photographs
of activities within U.S. Army aviation
■ NECROLOGY 34
Obituary Notices for January, 1965

Oblidary	Notices	101	oanuary,	1300
a ADVERT	ISERS			
Aircraft R	adio Corp	orati	on	19
Allison Div	rision			16
Beech Airc	raft Corp	orati	on	26-27
Bell Helico	pter Com	pany.		20-21
Boeing Ver				
The state of the s				

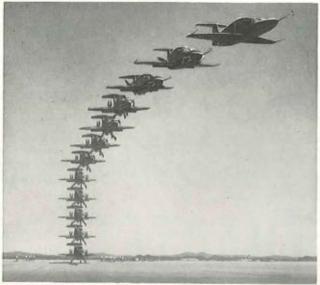


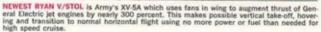
- AAAA NEWS

AAAA NEWS
National, Regional and Chapter Activ-
ities within the Army Aviation Ass'n
■ SCIENCE FAIR AWARDS36
Participation by AAAA in the State,
Regional and National Science Fairs
■ AAAA PHOTOCHART37-38
The CONUS and APO Chapter Presi-
dents of the Army Aviation Association
COMMAND CHANGES40
General Tolson, Colonel Seneff assume
key assignments within Army aviation  STAFF
EditorArthur H. Kesten
Associate EditorWilliam E. McGee
Editorial AssistantJessie R. Borck
Business ManagerDorothy Kesten
Reader ServiceMary Wallace
Circulation AssistantDorothy DeVack
Circulation AssistantPhyllis Hanson

De Havilland Aircraft of Canada......11
General Precision Decca Systems......6
Grumman Aircraft Engrg. Corp.....39
Lockheed California Company......14-15
Lycoming Division........Front Cover
Ryan Aeronautical Company.........5

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FLEX WING STOL "FLEEP", popular name of the easy-to-fly XV-8A, is under study by Army's Transportation Research Command as an aerial "truck," capable of operating in areas where terrain conditions are rugged.

# FROM RYAN'S SPECTRUM OF CAPABILITIES:

## V/STOL AIRCRAFT



TILT-WING V/STOL TRANSPORT XC-142A has been developed by the three-company team of Ling-Temco-Vought, Hiller and Ryan for Army, Navy and Air Force. It will be capable of transporting troops and equipment into unprepared areas under all weather conditions.

Which V/STOL concept is best? That depends upon the mission to be flown.

Whatever the mission requirement, Ryan will continue to make significant contributions to successful V/STOL technology.

Three current Ryan V/STOL projects, each of a different technical approach, are illustrated here.

On these, and on such pioneering projects as the X-13 Vertijet, the VZ-SRY Vertiplane and the Y0-51 Dragonfly, Ryan has expended nearly four million engineering/developmental manhours. Notable gains in V/STOL technology have resulted from Ryan's original work on direct thrust systems, variable nozles, jet reaction controls, unique V/STOL simulation, auto-stabilization and deflected slipstream aerodynamics.

But V/STOL is only a single band in Ryan's broad spectrum of capabilities.

Ryan Firebees have tested more U.S. surface-toair and air-to-air weaponry than any other jet target missile. Ryan Doppler equipment contributes to the navigation of fixed-wing aircraft, helicopters and space vehicles.

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In many fields of aeronautics, electronics and astronautics, strength for tomorrow is being forged today — at Ryan!

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The Decca Flight Lag indicator continuously presents current position and past track of the aircraft . . . the ultimate in pictorial presentation.

# The ULTIMATE

TO SEE one's present position and past track on a map is the ultimate in position fixing presentation . . . and Decca provides that now!

The Decca Flight Log traces the aircraft position on a plastic roller map with a wash-off ink pen synchronized by any two of three ground stations. Since first placed in service in 1950, the Decca aerial navigation system has been constantly improved. It is now in use by civil and military aircraft in many parts of the world.

Not subject to VHF line-of-sight

disadvantages and inaccuracies, the Decca principle works on a three-station low frequency grid. It provides a two dimensional navigation system of exceedingly high accuracy suitable for both nap-of-earth or high-level navigation. As an area system, Decca allows direct flight as opposed to dogleg courses from one fix to another. Holding patterns can be accomplished anywhere within Decca coverage.

More information on the ultimate in aerial navigation is yours for the asking.

# ... As provided by DECCA



GENERAL PRECISION DECCA SYSTEMS, INC. 1707 L STREET, N.W., WASHINGTON, D. C. TELEPHONE: AREA CODE 202, 296-7480

NOW that the new year is upon us, I thought I'd take a cue from the newspaper columnists to list a few of the milestones and accomplishments of 1964. For example, during the past year, the Army's aviation activities included:

■ Continued outstanding Army aviation support in South Vietnam.

■ Delivery of the first off-the-shelf primary helicopter trainer to Fort Wolters, Texas.

■ Establishment of 21 helicopter world performance records with the UH-1 Iroquois.

Accomplishment of full scale field testing of the Army's airmobile test units.

■ First flight of de Havilland CV-7A.

■ Army aviation of USARAL played major part in disaster relief activities during Alaskan earthquake.

■ First flight deployment of Caribou to Vietnam via Pacific Ocean route.

■ Delivery of first Sikorsky CH-54 Flying Crane. ■ Incorporation of expanded instrument training in the initial entry helicopter course at Fort Rucker, Alabama.

Army acceptance of plant cognizance for Hiller Aircraft Company.

■ Approval for procurement of offthe-shelf twin engine fixed wing instrument trainers for U.S. Army Aviation School.

■ Assignment of U.S. Army Aviation Flight Information and NAVAIDS Office as Class II Activity of OACS-FOR.

Army Primary Helicopter School wins annual Distinguished Safety Award from Flight Safety Foundation.

■ LOH competition narrowed to Hiller and Hughes. Approval for procurement of production models in FY 65 budget.

■ Bell Helicopter Company awarded contract to produce off-the-shelf helicopter instrument trainers.

■ First transoceanic self-deployment of OV-1 Mohawk.

■ FY 64 world-wide Army aviation major accident rate reduced 11 per cent below FY 63.

GEN. TOLSON COMMENTS ON:

1964

**MILESTONES** 



I am sure that there were many other significant accomplishments in '64. Please forgive me for any omissions. Looking back over the list, I can see that the year was a pretty good one. The new year doesn't show any signs of a slackening of activity, so we all have plenty of work in the months ahead. Best of luck to all of you!

## **USABAAR SAFETY COURSE**

The U.S. Army Board for Aviation Accident Research recently graduated its first class in a newly organized Aviation Safety Orientation Course. This week-long, 35-hour course, taught by eight USABAAR Safety Specialists, has been established to provide instruction in practical aspects of aircraft accident investigation and prevention.

While the new course is not a substitute for the 10-week Army Aviation Safety Course presented at the University of Southern California, it will assist officers without previous safety training to establish accident prevention programs in their units. It will also improve the qualifications of those officers who participate in aircraft accident investigation boards.

The first graduating class consisted of 14 officers and 3 civilians. Their curriculum included instruction in aircraft structures and propulsion systems, pre-accident planning, aerodynamics, investigation technique, and aviation safety literature. Included was a field exercise in aircraft accident investigation and airfield safety survey.

We hope that this short course will pay dividends far out of proportion to the rather limited time involved. Although the foundation of aviation safety is command supervision, the commander must have competent people at the operating level to assist him in carrying out a successful accident prevention program.

## PREPARING DA FORM 1852

Perhaps few aviators realize it, but more data are collected on aircraft, at all levels of management, than practically any other piece of Army equipment. However, trying to pin down authorizations and applicable assets has been a cause of serious concern.

Accordingly, in December of 1963, AR 710-12, Army Aircraft Inventory, Status and Flying Time, was published superseding AR710-1500-8. The basic purpose of this regulation is to prescribe the procedures for reporting statistical data on inventory, assignment, status, gains, losses and flying time of Army aircraft and synthetic instrument flight trainers. Preparing agencies include each divisional and non-divisional TOE organization authorized aircraft, non-TOE units authorized aircraft and other TD type units holding accountability for Army aircraft, but not having a specific authorization.

Commencing on 1 January 1964, the regulation required that the status of aircraft activities be recorded daily utilizing the 24-hour day to the nearest hour and prepared monthly so as to include data for the entire calendar month.

Commanders and aviation personnel at all echelons should be aware of the importance of this form, and the requirement that it be accurate and timely. The requirement for



accuracy in its submission has a direct bearing on the number of air-craft which are distributed in broad numbers at DA level and are ultimately assigned at unit level.

Particular emphasis should be placed on properly filling in Column "C" - Assignment Code. While the AR offers sufficient definitions reflecting the assignment of each aircraft, commanders should insure that the description used reflects the basic mission of the unit and not what the aircraft is being utilized for.

The following are some examples of erroneous reporting. An aircraft is assigned to a combat unit for the direct accomplishment of a comThe U.S. Army has formally accepted two research XV-5A V/STOL lift fan aircraft at Edwards AFB, Cal. Built by GE and Ryan, the two aircraft have completed Phase 1 testing and are currently being readied for a six-month flight evaluation at Edwards under USATRECOM management. Test personnel will be provided by the U.S. Army Aviation Test Activity at Edwards AFB. (U.S. Army photo)

bat mission. However, it is used partially for giving transition flights to new pilots within the unit and, consequently, is reported as a training aircraft. Or, an aircraft is used within a unit to develop a new SOP and on the 1352 is reported as a test aircraft. There are even instances where some units have failed to submit the 1352.

In summary, the 1352s must be

submitted monthly and submitted correctly if they are to be useful in the aviation program.

## NAVY TEST PILOT SCHOOL

Through the cooperation of the Department of the Navy a plan was recently approved whereby the Navy will train a number of Army aviators as engineering test pilots at the Navy Test Pilot School, Naval Air Test Center, Patuxent River, Maryland. This training will support increased Army participation in the field of engineering flight testing.

The 8-month course of instruction at the Test Pilot School is divided into academic and flight phases. The academic portion includes the study of aerothermodynamics, dynamic and longitudinal stability, aircraft and engine performance, and other selected aeronautical engineering subjects. The flight phase includes planning, flying test flights in a variety of aircraft, reciprocating, jet, and helicopters, and writing reports of these flights. All flights are test flights with the exception of jet transition, familiarization in new types, and instrument and night proficiency flights.

Classes are convened in Febru-

## 1,000 FLIGHT SPACES

The Aviation Warrant Officer Branch of the Office of Personnel Operations is seeking qualified enlisted volunteers for warrant officer flight training. Approximately 1,000 flying "warrant" spaces are available. AR 611-110 provides additional information for warrant officer applications.

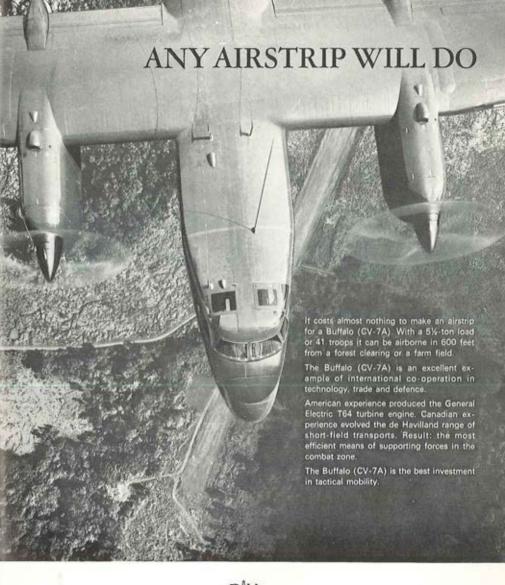
ary, July, and October of each year and each is composed of officers from all of the armed services as well as allied military officers and civilians. Primary factors considered in the selection of Army students will be the availability of quotas and applicants' academic and flight background, Essential qualities required of candidates are a high standard of flying proficiency, technical understanding and the ability to clearly express oneself orally and in writing. Mathematical background in college algebra, physics, and calculus is invaluable. Graduate engineers are considered most suited to meet the technical requirements of the course.

## **DUAL RATED AA'S SOUGHT**

Applicants should have extensive flying experience in both fixed and rotary wing aircraft preferably accumulated through diversified aviation assignments. Applications are sought from highly qualified and motivated Army aviators from all branches through the rank of Lt. Colonel. Applicants must be dual rated Army aviators currently on flight status.

Application for assignment to the U.S. Navy Test Pilot School should be sent through normal command channels to Department of the Army, Office of Personnel Operations, ATTN: Career Branch concerned.

I understand that a Department of the Army circular, containing detailed information concerning this program, will be published soon. I am sure that many interesting assignments in the development and testing phase of Army aviation await the Army graduates of this program.





N 25 November 1964, officials of the U.S. Army Primary Helicopter School looked on as 10 Hughes TH-55A helicopters landed at the main heliport at Fort Wolters, Texas. The helicopters, flown by pilots assigned to Military Flight Evaluation and Southern Airways of Texas, Inc. instructor pilots, had just completed a four-day flight from Culver City, California.

The arrival of the helicopters at Fort Wolters marked a highlight in an Army program announced in 1962. At that time the Department of the Army announced that a requirement existed for a primary helicopter trainer of single rotor configuration, capable of carrying two persons and cruising 65 knots with an endurance range of at least 2-1/2 hours. DA further stipulated that the helicopter could be a commercially produced "off-the-shelf" item. This helicopter, if found suitable, would

then replace the OH-23D presently used by USAPHS. This would release the OH-23Ds at Fort Wolters to tactical units.

During the early part of 1964, the decision was made to evaluate the Hughes 269A commercial helicopter to determine whether or not it could meet Army requirements. This aircraft was modified with shoulder harness, dual controls and UHF radios.

## "OFF-THE-SHELF"

The helicopter was then designated "Training Helicopter 55A (TH-55A)" and 20 were assigned to USAPHS to become the subject of "Off-the-shelf Primary Training Helicopter USATECOM Project Number 4-3-1000-01-A." The objective of the test is to evaluate the suitability of the U.S. Army Primary Helicopter School mission, as defined by the currently approved Programs of Instruction, when uti-

## USAPHS TESTS MISSION SUITABILITY OF TH-55A

BY
COLONEL
KEMUEL K. BLACKER
COMMANDANT, USAPHS



lizing the TH-55A helicopter as the primary trainer.

The USAPHS mission is to develop a qualified rotary wing student pilot within the allotted 85 flight hour course as prescribed by US-CONARC. It is significant to note that the helicopter will not be tested by comparison with another helicopter, but will be pitted against the requirement to turn out a satisfactory student as compared to the performance standards of students previously trained at Fort Wolters.

The suitability test as approved provides for the Commandant, USA-PHS to be the test director. The Chief of Military Flight Evaluation, Major Melvin K. Goulding, has been designated as the test project officer.

Upon receipt of the first 10 TH-55A's on 25 November 1964, standardization training of selected Military Flight Evaluation and Southern Airways instructor pilots was initiated to qualify them to perform their respective duties in this helicopter.

## TWO PHASE TESTING

The actual mission suitability test involving the TH-55A will be conducted in two phases. Phase Alpha, scheduled to begin 12 January 1965, will be of four weeks and approximately 17 flight hours' duration. Forty-two initial entry students will be placed in the test group.

Phase Bravo will start immediately upon completion of Phase Alpha and will be administered within the time frame of 40 flight hours and six weeks. Phase Bravo is a continuation of Phase Alpha and will use as a test group those students who soloed during Phase Alpha. Phase Bravo will be completed when all students in the test group either obtain 60 flying hours or successfully accomplish their primary check ride.



## Three that changed helicopter history

The first Lockheed Rigid Rotor helicopter flew six years ago. Ever since, research achievements of the revolutionary rotor system have been changing conventional concepts of what a helicopter can do.

Two XH-51A Rigid Rotor research helicopters, built and flight tested under a joint Army/Navy contract, proved that the Rigid Rotor is less complex and easier to handle than conventional hinged rotor helicopters, that it is inherently stable (requiring no black boxes), and that it has a much higher degree of maneuverability.

A follow-on study program for the Army's Transportation Research Command evaluated Rigid Rotor speed capabilities. The result: A four-bladed XH-51A was flown at 201 mph, highest known speed for its weight class, and a compound version — with stub wings and auxiliary jet — reached a speed of 242 mph, using only two-thirds of available jet thrust. The compound's speed mark tops any revealed for either "pure" or compound-winged helicopters.

Last December, Lockheed de-



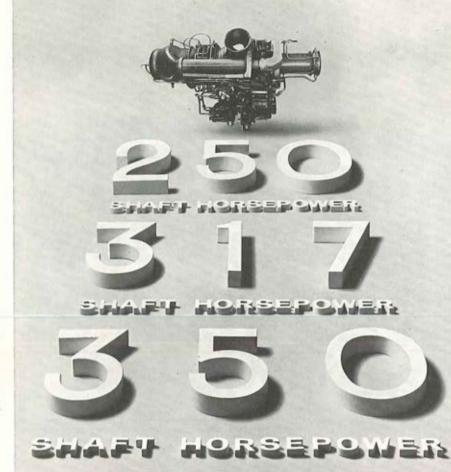
livered an XH-51N Rigid Rotor helicopter to NASA-Langley for continued research and evaluation in their own overall rotary wing research program.

In other research, wind tunnel tests have shown the feasibility of a rigidstopped rotor for advanced VTOL vehicles capable of 400 mph forward speed with rotor blades stopped and folded, and normal helicopter takeoff and landing with rotor turning. Another variation of the Rigid Rotor—the matched stiffness rotor promises significant advantages, especially for heavy lift vehicle applications.

As research continues, Lockheed is building two five-place Rigid Rotor helicopters for FAA certification in 1965 to provide off-the-shelf availability for civil and military requirements.

The Rigid Rotor is rewriting helicopter history. And this is only the beginning. Lockheed-California Company, Burbank, Calif.. A Division of Lockheed Aircraft Corporation.

LOCKHEED



Allison's T63 turbine engine is designed to "grow" in power. Now ready to go into production for

the Army's new LOH, the T63 is currently flat rated at 250 shp.

With a slight turbine temperature increase, it produces 317 shp.

By increasing airflow and turbine temperature, it can step up to 350 shp. And while horsepower increases, weight and dimensions remain the same.

The T63 also has the potential to "grow" in economy. With a regenerator, fuel consumption could be reduced as much as one-third.

The T63 can power fixed- and tiltwing aircraft as efficiently as it powers the Army's LOH. Allison is prepared to offer variations of this performance-proved engine.

If you have any questions about the T63 or its growth versions, write: T63, Allison Division of General Motors, Box AA-3, Indianapolis, Indiana 46206.

Allison
THE ENERGY CONVERSION DIVISION OF
CENERAL MOTORS, INDIANAPOLIS, INDIANA





## **SPACE UTILIZATION**

BY CAPTAIN GERALD D. MacDOWELL

Do you have space problems?

Does your aircraft have you all fidgety and nervous and rundown?

Do you find yourself stumbling over the junk you moved to make room for the goodies that you had to change around so that you could load the gear that you needed the last time, but left behind BECAUSE someone else's stuff was put there FIRST?

Is that what's bothering you, bunkie?

Well, rejoice, dear friends, because I'm here to tell you that . . .







... the 228th Assault Support Helicopter Battalion of Fort Benning, Ga., commanded by Lt. Colonel Benjamin S. Silver, has the solution for you . . .

## EXCESS SPACE

A few of the 228th's Winged Warriors put their heads together and took a new look at the old problem of how to utilize the excess space inside an aircraft and applied it to the CH-47A Chinook.

In keeping with the lean and mean look of the Air Assault Concept, all equipment has been scrutinized. Unnecessary vehicles and nice-to-have items have been culled from the TOE. The emphasis has been on trimming the overall weight of the battalion, improving its responsiveness and making it completely airmobile by the employment of organic helicopters.

As a result of this "weight" review, smaller, lighter, more compact substitute items have come into being all along the line.

The men of the Winged Warrior Battalion then examined their Chinook aircraft very carefully, and found considerable space that could be utilized for prepositioned items, without in any way restricting the cargo-carrying capability of their helicopters.

For example, they found many compartmented areas suitable for storing items, the depth of which did not exceed six inches. Where? Along both sides of the helicopter behind the troop seats!

Here, PRC 25 radios, C rations, ammunition boxes, field cook sets, survival kits and many other similar items could be stored easily. (See photo). Simple tie-downs were employed and held the items firmly against the aircraft side and out of the way.

Larger items posed more of a problem. To solve this, the unit



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TROOP
SEATS!





with the

## **RO 40A ADF**

Equivalent of Military AN/ARN-73 Automatic Direction Finder

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- Usable with all ARINC and MIL standard ADF and RMI indicators.
- BFO operation for CW signal identification.

Contact ARC for Details



Aircraft Radio Corporation

DEPENDABLE AIRBORNE ELECTRONIC EQUIPMENT SINCE 1928

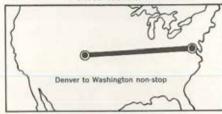


FLIES FARTHER! 1,614.6 miles

U. S. Army pilots of the Army Aviation Test Activity flying for the record have matched their skill to the Iroquois performance capabilities, setting new marks for both closed circuit (1,614.6 miles) and straight line (1,348.8 miles) categories.

In terms of tactical measures of performance, these runs demonstrate ferrying capabilities of the UH-1D . . for trans-ocean or extended cross-country deployment.

#### **CROSS COUNTRY**



OVERSEAS SELECTION 772 GREENLAND GLASGO GANDER 1420 AZORES LISBON U. S. to Europe via Azores or Greenland and Iceland

> **UH-1D HOLDS MORE RECORDS** THAN EVER HELD BY ANY MILITARY COMBAT AIRCRAFT!



## BELL HELICOPTER COMPANY

21 World Records . . 5 F



CLIMBS FLIES 35.1

During record flights in the UH-1D up to 35,150 Mount Everest . . almost Peak. The UH-1D also se climb to altitude.

These records demonst performance in reserve operational altitudes.

RECORD I

- \* 35,150 feet (10.7) Altitude Record Co
- \* 25,418 feet (7,747 meters) Class E-1,e

4 MIN 3,000 METERS (9,843 feet) 2 MIN. 9.6 SE

UH-1D HOLDS THAN: BY ANY MILITARY

BELL HE

CON

## Altitude and Rate of Climb



e 1964, an Army pilot took eet . . one mile higher than our miles higher than Pikes three new marks in rate-of-

0 feet

TE OF CLIMB

te the Delta's tremendous climb and maneuver at all

METERS meters) s E-1.d 9000 9,000 METERS (29,529 feet) 9 MIN. 13.7 SEC. (Avg. 3,200 feet per minute) 6000 ETERS feet) 35.8 SEC. et per minute) 3000 ioute)

MORE RECORDS ER HELD COMBAT AIRCRAFT!

**ICOPTER** 

PANY

ACE CORPORATION - A TEXTON COMPANY

21 World Records . . 12 For Speed



## BELL UH-1D

FLIES FASTER! 180.14 MPH

In setting speed records, the Iroquois proved its reserve dash capability for surprise assault tactics . . faster mission response . . evasive action.

These achievements are a tribute to the skill of Army pilots and demonstrate Bell's unique capability to design and produce military helicopters of unequalled performance.

## SPEED RECORDS

(4 of 12) 3 KILOMETERS 180.14 mph (1.86 miles) 500 KILOMETERS 176.8 mph (310.69 miles) 1000 KILOMETERS 164.07 mph (621.37 miles) 2000 KILOMETERS 133.9 mph (1,242.8 miles) Plus 8 other equally outstanding marks.

**UH-1D HOLDS MORE RECORDS** THAN EVER HELD BY ANY MILITARY COMBAT AIRCRAFT!

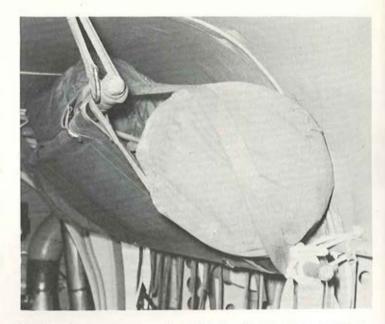


## BELL HELICOPTER COMPANY

FORT WORTH, TEXAS . A DIVISION OF BELL AEROSPACE CORPORATION . A TEXTRON COMPANY



OVERHEAD
LITTER



borrowed an overhead rack arrangement from the design of inter-city buses. However, while the racks were to be used, they could not be rigged as a fixed installation should a mission require the use of the full floor to ceiling space. The requirement was obvious: a rack had to be developed that could be stowed easily when not in use. After some experimentation, it was found that litters from the aircraft litter kit could be used. (Photo above).

#### OVERHEAD STORAGE

Bulky items - such as TA 21, aviator kits, 10-man tents, etc. - could be pre-positioned on these litters that were suspended over the troop seats. By using adjustable straps, the Items would be held firmly against the ceiling of the aircraft, and would require a minimum of other securing devices.

In utilizing these space arrangements and loading the Chinook aircraft in this manner, the men of the 228th found that they could expect the following results:

By providing a place aboard the aircraft for items of equipment necessary for the crew in the performance of normal operations, the overall efficiency of the crew was increased. Necessary items were stored in accessible areas, ready for use; little or no time was spent in locating and getting these items when needed.

Secondly, the crew would be amply prepared to survive for extended periods in the event of an emergency landing.

Lastly, by utilizing pre-positioned supplies and items of equipment the Assault Helicopter Battalion would be one step closer to the ultimate in air mobility.

## manthia talzaaffa IIIUIUIS VUKUUIS

#### COLONELS

BEAUMONT, HARRY C.
Tempo 7
Gravelly Point, Virginia
BURKE, JAMES T.
333 Ambler Court
Hampton, Virginia 23369
HARRIS, PETER J.
Aviation Section, Hq. Eighth Army

APO San Francisco 96301 LUKENS, HOWARD I. 1202 Summit Avenue Alexandria, Virginia

McMAKEN, EDWARD 1115 Westview Drive Ozark, Alabama 36360

WOOD, EDGAR C. Operations Div., Hq. USAREUR APO New York 09403

#### LT. COLONELS

BARRETT, ERNEST F.
Hq. Special Warfare Center
Fort Bragg, North Carolina
BENTON, LUCIEN C.
300 Prospect
Leavenworth, Kansas
COLOZZI, CARL A.
7000 Dodge, Town House-#783
Omaha, Nebraska
ERICKSON, FLOYD C.
6810 Nashville Road

Lanham, Maryland KERN, HARRY J. 86 Douglas Street Tiffin, Ohio 44883 KINLEY, GORDON L.

U.S. Army Aviation School Fort Rucker, Alabama 36362 KUSEWITT, JOHN B., JR. 1st Battalion, 34th Artillery

APO New York 09029 MIKLES, LOWELL 428 Patrick Mineral Wells, Texas

OPENSHAW, ROBERT G. Hq. USCONARC AG Mailroom Fort Monroe, Virginia 23351

SHEPPARD, BYRON E. Hq. JUSMAG, P.O. Box 161 APO San Francisco 96346 SHEPPARD, ORVAL H.

J-4 JCS Pentagon Washington, D.C. 20301 STEBBINS, JUNE H.

U.S. Army Aviation Test Board Fort Rucker, Alabama 36362

TOMME, HENRY H. 719 6th Avenue Leavenworth, Kansas 66027

## LT. COLONELS (CONT.)

TOWNSEND, DELBERT L.
Headquarters USASCV
APO San Francisco 96:307
TRABER, OSCAR W., JR.
602 Crown Court Road
Alexandria, Virginia 22:308
ZEPPENFELD, BERNARD M.
12 Gregg Way
Fort Rucker, Alabama 36:362

#### MAJORS

ANDERSON, JOHN H. 6038 Decatur Street Omaha, Nebraska BAKER, WALLACE I. 14th Aviation Battalion APO San Francisco 96240 BARINGER, HENRY J. 614 Perkins Street Fort Benning, Georgia 31905 BRODEUR, ALFRED F. 153-B Arrowhead Road Fort Benning, Georgia 31905 BROWN, SAM E. ATOCC 65-2 Fort Eustis, Virginia 23604 BRZOSKA, ARTHUR J. 28 Country Club Road, Apt. 68 Eatontown, New Jersey BURTON, GEORGE T. 1037 ADP Fort Campbell, Kentucky CAMPBELL, JAMES E., JR. 2011-D Miami Street Leavenworth, Kansas 66048

Leavenworth, Kansas 66048 CARRILLO, ARNOLD R. 13th Aviation Battalion APO San Francisco 96215 CARTER, WILLIAM C. G-4 Section, Hq. VII Corps APO New York 09107

CASEY, JOHN P., JR.
16 Dickman
Fort Leavenworth, Kansas
CHRISTY, DERYCK G.
Main Navy Building, Room 4830

Washington, D.C. 20301 CURRY, ROBERT T. 1140 Oxford Street Toms River, New Jersey 08753

DAVIS, WILLYS E. 103-B Butts Street Fort Benning, Georgia 31905 DELAHANTY, RAYMOND A. 1032 Emmerick Drive

Joppa, Maryland 21085 DIETDERICH, WALLACE R. 4508 Cherokee Lawton, Oklahoma

#### MAJORS (CONT.)

DUNN, THOMAS M., JR.
11th Transportation Company
APO New York 09046
DUVALL, ROBERT A.
Associate Course

Fort Leavenworth, Kansas 66027 FLEMING, CHARLIE P. 1103 Santeetlah Chesapeake, Virginia FRANZNICK, JOHN P.

FRANZNICK, JOHN R. Wilmore-208 Fairlawn Road Topeka, Kansas GARDNER, LLOYD G.

41 Logan Street Fort Rucker, Alabama 36362 GARNER, KERMIT C

GARNER, KERMIT C. 12 Camelot Court Newport News, Virginia 23602

GEORGE, ROBERT C. U.S. Army Engineer Dist-Gulf

U.S. Army Engineer Dist-Gul APO New York 09205 HILL, JAMES F.

847 Catalina Drive Newport News, Virginia 23602 HODGE, HAROLD L., JR. Hqs. 611th A/C Maint & Spt Bn

Hqs, 611th A/C Maint & Spt B Fort Benning, Georgia 31905 HOVER, CHARLES E.

525 Michigan Street Leavenworth, Kansas JAMNICKI, AUGUST

Hq., I Corps, Group G-4 Maint, APO San Francisco 96358

JARDEN, ALFRED B.
CDC Transportation Agency
Fort Eustis, Virginia

JORDAN, ALDY C. 64 Helms Drive Eatontown, New Jersey JUTZ, DONALD G.

Hq., 5th SFG-Airborne, 1st SF APO San Francisco 96240

KENNINGTON, EDWARD R. 176th Repl Co, 38th Repl Bn, P-8 APO San Francisco 80220

KREITLER, CLARK F. 5th Army Flight Detachment Fort Sheridan, Illinois LIEBL, ARTHUR F.W.

310-B Carpenter Court Fort Riley, Kansas McKINNEY, JOHN W.

P.O. Box 327
Jefferson, Georgia
OGLE, CHARLES R.
220 Fair Lane, Apartment 2

Lansing, Kansas



## NOMINATED

COLONEL GEORGE P. SENEFF, JR., LEFT, COMMANDER OF THE LITH AVIATION GROUP, LITH AIR ASSAULT DIVISION, FORT BENNING, GA., AND COLONEL FRANK MESZAR, OPERATIONS DIVISION, HEADQUARTERS, U.S. ARMY, EUROPE, HAVE BEEN NOMINATED BY PRESIDENT JOHNSON FOR THE RANK OF BRIGADIER GENERAL, A THIRD ARMY AVIATOR, COLONEL ALVIN E. COWAN, OFFICE, CHIEF OF RESEARCH AND DEVELOPMENT, DEPARTMENT OF THE ARMY, WAS ALSO NOMINATED FOR THE RANK OF BRIGADIER GENERAL ON THE SAME LIST. THE THREE OFFICERS WERE AMONG 38 COLONEL ADVANCEMENTS TO BRIGADIER GENERAL NOW AWAITING SENATE CONFIRMATION. (USA)

## MAJORS (CONT.)

PETTY, FLOYD E. 4415 Briarwood Court, N., Apt. 36 Annandale, Virginia 22003 POLLARD, ARNOLD R. 1219 Kingsley Drive Colorado Springs, Colorado RAMPTON, WALTER E. 38620 North 2nd Street, E. Palmdale, California 93550 RIESTERER, LAVERN R. 2107-B Irwin Street Fort Eustis, Virginia 23604 SHEPPARD, JAMES Y. 5805 Hanover Avenue Springfield, Virginia 22150 SILLS, CHARLES W. 880 Lacon Drive Denbigh, Virginia SMALL, HAROLD I. Headquarters MDW MW-7001 Washington, D.C. 20315 STANFIELD, JOHN T. Trans. Div., 3rd Log. Command APO New York 09058 STREVER, CARL W. Route 2, Box 76 Manhattan, Kansas TEDLOCK, BILLY L. 672 Kandle Drive Fort Benning, Georgia 31905 THRALL, DEWELL O. 18 East 66th Terrace Kansas City, Missouri TOEPEL, ADALBERT E., JR. 538-D Seventh Street APO Seattle 98749 UNDERWOOD, ORLIE J. 1826 Shawnee, Apartment 2 Leavenworth, Kansas WALKER, PAUL S. 3915 Virginia Drive Orlando, Florida WHEELER, ROBERT J. Advisory Team #95 APO San Francisco 96227 WINESETTE, RICHARD C.

XVI Corps, 21st & Woolworth

Omaha, Nebraska

## CAPTAINS ADDY, B.W., JR.

Headquarters USAAMC APO New York 09028 BALL, DONALD A. 5930 O'Brian Corous Christi, Texas BARKSDALE, CLIFFORD B. 22 Southdown Road Alexandria, Virginia 22308 BEAN, ROBERT H. Hq., 55th Transportation Bn. APO San Francisco 96220 BENNETT, WILLARD M., JR. 1227 Azalea Court Columbus, Georgia 31906 BISHOP, EDWARD L. Class 64-5, USAPHS Fort Wolters, Texas BRAFFORD, ROBERT T. Pox 71-A Kinston, North Carolina BRENNAN, KENNETH J., JR. 1821 W. Leland Avenue Chicago, Illinois 60640 BRIEN, JOHN H. Headquarters DUSAA Fort Belvoir, Virginia BRIGHAM, HUGH W. HHD, 4th Aviation Battalion Fort Lewis, Washington BRIOT, WILLIAM R. 420-7 Kearney Fort Leavenworth, Kansas BROCK, JEFFREY D. 24th Aviation Bn., 24th Inf. Div. APO New York 09112 BUECHNER, WILLIAM E. 8071 Knox Court Westminster, Colorado BURKE, JAMES A. Hq., 4th Msl. Bn., 562nd Arty Duncanville, Texas BURT, JOHN E. USARAL Aviation Company APO Seattle 98749 CARLILE, CECIL O. 439-C Dyea APO Seattle 98749 CHARLES, JOHN D. A Co., 1st Avn. Bn., 1st Inf. Div. Fort Riley, Kansas

## CAPTAINS (CONT.)

CHOAT, B.J. 712 Joppa Farm Road Joppatowne, Maryland CHRISTENSEN, NEAL R. 91-942 Hanakahi-Leeward Ewa Beach, Hawaii CHUNN, DON C., JR. 604 South Madison El Dorado, Arkansas 71730 CLARK, CARL G. 80th Trans. Co., 19th Avn. Bn. APO Seattle 98749 COMER, JOHN F. U.S.A. Arctic Test Center APO Seattle 98733 CONARTON, MICHAEL D. 1622 Custer Road Junction City, Kansas COOPER, JAMES F. Student Det., USAES Class 65-3 Fort Belvoir, Virginia CULLINS, ROBERT B. III 333 Clay Monterey, California DAVIS, WILLIE L. 63 Bullard Loop Fort Leavenworth, Kansas DEATON, ARLIE 57 Boyce Lane Fort Rucker, Alabama 36362 DEW, DONALD L. Hq., 205th Transportation Bn. APO New York 09154 DONAHUE, ROBERT A. USA IAGS, United States Embassy Tegucigalpa, Honduras DOTY, RICHARD V. 5472-C Kelley Street Fort Knox, Kentucky 40122 DRYDEN, DAVID D. 1613 26th Street Sioux City, Iowa DUFF, JOHN A. 4154 Roman Court Columbus, Georgia DUNEGAN, CLARENCE M. 339th Transportation Company APO San Francisco 96240 FERNANDER, BOBBIE B. Box 1829

Presidio of Monterey, California

## FLOOD RESCUE

**m** EMERGENCY OPERATIONS IN THE FLOOD AREAS OF OREGON AND NORTHERN CALIFOR-NIA HAVE BEEN AIDED BY THE WORK OF EIGHT OH-23G HELICOPTERS THAT WERE DONATED BY THE ARMY AND HILLER AIRCRAFT, THE OH-23 CREWS WERE THE FIRST TOSTART RES-CUE FLIGHTS IN THE HARDEST HIT AREA OF CALIFORNIA'S EEL RIVER, DOCTORS AND MEDI-CAL SUPPLIES WERE FLOWN INTO THE MOST SEVERELY DEVASTATED COMMUNITIES, THE OH-23G PILOTS RETURNED TO ROHNERVILLE AIRPORT (RIGHT PHOTO) WITH CRITICALLY ILL VICTIMS AND REPORTED RECONNAISSANCE DATA THAT SERVED AS THE BASIS FOR LATER RESCUE AND RESUPPLY MISSIONS. (HILLER)



#### CAPTAINS (CONT.)

FISHER, RAYMOND W.
4405 Williams Avenue
Lawton, Oklahoma 73505
FITZGERALD, BARRY E.
USAPHS
FORT Wolters, Texas
FORBES, JESSE R.
121-B Mason Street
Fort Huachuca, Arizona

FREEMAN, BOBBY H.
2312 Mary Lane
Killeen, Texas 76542
FRANK, EUGENE R.
13220 Upton Avenue South
Savage, Minnesota 55378

GAFFNEY, JAMES J. P.O. Box 9049, USAADS Fort Bliss, Texas 79916 GICK, GEORGE P.

20 Slabey Avenue Malverne, L.I., New York GOETCHEUS, JAMES R. 117th Aviation Company

APO San Francisco 96238 GOODE, FRANKLYN C. 205 North Ripley, Apartment 301

Alexandria, Virginia GRAY, TED J. Stu. Det., USAAMS AOCC 65-3 Fort Sill, Oklahoma

GRIFFIN, JOHN R. Hq. Co., Det. 12, 318th USASA APO New York 09066

GROUT, HAROLD P. East Mombasha Road Monroe, New York

HALLY, JOHN E. 1420 Seminole Avenue Detroit, Michigan

HAM, JAMES A. 117th Aviation Company APO San Francisco 96238

HAMMOND, JOHN A. Hq., 27th Maint. Bn., 1st Cav. Div. APO San Francisco 96224

HEFFORD, ROBERT A.
HHD, 13th Aviation Battalion
APO San Francisco 96215
HERRON, ROY H.
197 Harris Drive

197 Harris Drive Fort Rucker, Alabama 36362

## CAPTAINS (CONT.)

HESTER, THOMAS L. 4947 Marie Tobin Drive El Paso, Texas 79924 HEUER, MARTIN

EOCC Student Off. Det., USAECR Fort Belvoir, Virginia 22060

HOLTER, JOHN H. 67 Matheson Road Columbus, Georgia

HORTON, EDWARD J. 1/35th Artillery, B Battery APO New York 09029

ILLER, ALFRED J., JR. 8036 Golden Star

Riverside, California JOHANSEN, JOHN M.

R.R. #3 Greenville, Michigan 48838 JOHNSON, BENJAMIN F., III

JOHNSON, BENJAMIN F., II 908 Tyler Drive Williamsburg, Virginia

KAISER, PHILIP E. Co. B, 708th Maintenance Bn. APO New York 09185

KEILERS, CHARLES H. Quarters 723, Duncan APO San Francisco 96557

KNUTSON, RICHARD H. 2nd Student Bn., USAIS Class 4 Fort Benning, Georgia 31905

LAMBERT, ALEXANDER L. 67th Aviation Company APO New York 09107

LAMOUR, HENRY M. B Company, 82nd Aviation Bn. Fort Bragg, North Carolina

LANSING, HAROLD J. 17th Avn. Co., 10th Bde., 11th AAD Fort Benning, Georgia 31905

LAYA, ROBERT E. Airlift Plat, 145th Avn Bn

APO San Francisco 96307 LONG, JOEL D.

54th Transportation Co. (MH) Fort Sill, Oklahoma

MARTIN, ALFRED L., JR. 97th Signal Battalion APO New York 09046

MARTIN, ERNEST L. 7928 Old Oceanview Road-101 Norfolk, Virginia

## CAPTAINS (CONT.)

MAYHEW, JOHN W. Hq. Detachment, 16th Avn. Ba. APO New York 09046

McGOWAN, JAMES A. IAGS Peru Project, Box 31 APO New York 09339

McKINSTRY, THOMAS I. 11046 Thompson Circle Fort Eustis, Virginia

MERRITT, HUBERT D. B Company, 1st Aviation Bn. Fort Riley, Kansas

MIELKE, VIRGIL E. 337th Medical Company (Air Amb) APO San Francisco 96358

MILLER, FRANK O. 402 Boxford Court Fairfax, Virginia

MILLER, FREDERICK T. 121st Aviation Company APO San Francisco 96296 MURPHY, STANLEY W.

Hq., 2nd Brigade, 2nd Division Fort Benning, Georgia 31905 MYERS, JAMES R.

30 Duke Street Fort Rucker, Alabama 36362

NADEAU, CLEMENT P. 261-B Anzio Road Fort Lee, Virginia

NICHOLAS, FRANK E. Officer Student Detachment Fort Monmouth, New Jersey NIELSEN, KENNETH G.

Marine-on-St. Croix Minnesota

OHLENBURGER, CLIFF C. 3rd Aviation Company APO San Francisco 96227

PAIGE, VERNON G. Avn. Sec., 39th Engineer Group APO New York 09164

PERSONS, JOHN E. 3107 South 41st Street Omaha, Nebraska 68100 PETERSON, FRANKLIN G.

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## **MASTER WINGS**

■ CAPTAIN FRANK A. DRUYOR, COMMANDING OFFICER OF HEADQUARTERS DETACHMENT, 16TH AVIATION BATTALION, IS SHOWN BEING CONGRATULATED ON HAVING RECEIVED HIS MASTER ARMY AVIATOR'S WINGS FROM COLWILLIAM G. THOMAS, III, SEVENTH ARMY AVIATION OFFICER. DRUYOR IS QUALIFIED TO FLY BOTH FIXED WING AND ROTARY WING AIRCRAFT. A RATED ARMY AVIATOR FOR OVER FIFTEEN YEARS, CAPTAIN DRUYOR HOLDS A SPECIAL INSTRUMENT CARD AND HAS LOGGED OVER 3,000 HOURS OF FLIGHT TIME DURING HIS MILITARY CARBER. (U.S. ARMY PHOTO)

### CAPTAINS (CONT.)

PETERSON, RICHARD N.
405 Virginia Avenue
Richmond, Indiana 47375
PHILLIPS, HARRY V., JR.
254th Medical Det. (Hel Amb)
Fort Carson, Colorado 80913
POWELL, BENJAMIN B.
4/69th Armor
Fort Benning, Georgia 31905
POWELL, LARRY G.
377th Medical Company (Air Amb)
4DO San Paranciaco 96358

APO San Francisco 96358
PRITCHARD, DONALD H.
Company B, 5th Aviation Bn.
Fort Carson, Colorado
PYATT, LESLIE J.

ATOCC 65-2, Troop Command Fort Eustis, Virginia RANKIN, THOMAS C.

937 Engr. Gp., Combat Avn Plat Fort Campbell, Kentucky RHYAN, ERNEST W., JR.

P.O. Box 194 Fort Rucker, Alabama 36362 RIXON, M.D. 2103 Somerset Avenue

Columbus, Georgia 31903 ROBERTS, FORREST E. 623 South Harrison

Olathe, Kansas ROEDER, HELMUT A. Fixed Wing Qual. Course 55-5 Fort Rucker, Alabama 36362

SANDERS, BOBBY L. Aviation Sec., Hq., Seventh Army APO New York 09046

SCUDDER, JAMES Quarters 2477-B Fort Lewis, Washington

SETZER, HOWARD L., JR. Hq., 16th Aviation Battalion APO New York 09046

SHAUGHNESSY, THOMAS J. B Company, 8th Aviation Battalion APO New York 09111

SNAVELY, CHARLES C. 6508 Payne Street Falls Church, Virginia 22040 SPARKMAN, FLOYD, JR.
1976-B Patton Avenue
Fort Eustis, Virginia
STONE, LEON H., JR.
678 Stoneykirk Drive
Fayetteville, No. Carolina 28304
SWEENEY, ROBERT F.
73rd Aviation Company (AS)

APO San Francisco 96291 TALBOT, THERON A. 2nd Infantry Division

CAPTAINS (CONT.)

2nd Infantry Division Fort Benning, Georgia 31905 TAYLOR, WILLIAM D. Hq., 3rd Brigade, 11th AAD Fort Benning, Georgia 31905

TONER, FRANCIS J. 45th Transportation Company APO San Francisco 96271

VALLEY, DONALD M.
4th Infantry Division
Fort Lewis, Washington

VISSERS, MARTIN R. 243 Robert E. Lee Road Columbus, Georgia 31903

WALTER, RICHARD E. 1324 Richmound Road Williamsburg, Virginia

WEAVER, EUGENE E. 188th Trans. Helicopter Co. (T) Fort Benning, Georgia 31905

WELCH, ELLIOT J. USA Air Def. School AOCC 65-1 Fort Bliss, Texas 79916

WEST, ARTHUR H. 404 Windsor Lane Kalamazoo, Michigan 49002

WILSON, GARY L. Headquarters JUSMMAT APO New York 09254

WISBY, JAMES M. 1st Infantry Division Fort Riley, Kansas

WOODS, EUGENE R. B Battery, 3rd Bn., 377th Arty Fort Benning, Georgia 31905 YODER, CARL C.

Hq., 82nd Aviation Battalion Fort Bragg, North Carolina 28307 YOUNG, RAY A.

Headquarters USASGV APO San Francisco 96243

## LIEUTENANTS

ALLEN, KENNETH W. P.O. Box 1702 Fort Benning, Georgia 31905 BAKER, THOMAS A.

900 Highland Drive Wenatchee, Washington

BANKS, HAYES B. 7th Avn. Bn., Co. B, 7th Inf. Div. APO San Francisco 96207

BOWEN, FRED W. 510-B, 1 Ord Road

Fort Totten, L.I., New York 11359 BRAUCH, GILBERT M.F., JR.

U.S. Army Aviation School Fort Rucker, Alabama 36362 BREDEHOEFT, FRED L.

11th Air Assault Division Fort Benning, Georgia 31905 BROWN, STANLEY A.

Company B, 8th Aviation Bn. APO New York 09111

CAMPBELL, THERMAN L., JR. 11th Air Assault Division Fort Benning, Georgia 31905

CARMACK, DOUGLAS W. 122nd Maint. Bn., 3rd Armd. Div. APO New York 09165

CONLEY, JOSEPH P., JR. 7th Engineer Brigade

APO New York 09057 CROMWELL, JOHN L. 13805 Califa Street

Van Nuys, California CYRUS, WILSON C., JR. 137 Wilson Drive

Columbus, Georgia DAVIDSON, THOMAS A. 18th Aviation Company

18th Aviation Company APO San Francisco 96296 DONALD, GREEN

P.O. Box 722 Pine Grove, Louisiana DUBOIS, JOHN G.

5th Infantry Division Fort Carson, Colorado ENGELBRECHT, DON L.

11th Air Assault Division Fort Benning, Georgia 31905 FISHER, WILLIAM R.

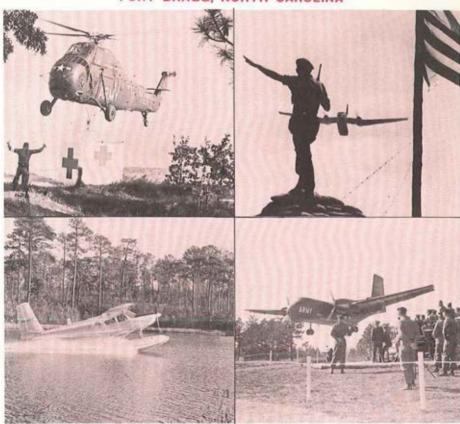
4th Aviation Battalion Fort Lewis, Washington



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COLONEL JOSEPH A. MCCULLOCH Assistant Chief of Staff, G-3



MAJOR MARQUIS D. HILBERT Aviation Officer



MAJOR WELDON C. BRITTON Deputy Avistion Officer



## SPECIAL WARFARE AVIATION

USAJPKCENSPWAR



MAJOR CHARLES A. DAWDY Special Warf Applications Officer Aviation Section



USAJFKCENSPWAR

MAJOR DAVID H, WEDDINGTON Plans Officer, Aviation Section



MAJOR HARVEY C. MAYSE Aircraft Maintenance Officer USAJPKCENSPWAR



MAJORATHOL M. SMITH Operations Officer, Aviation Sect

USAJPKCENSPWAR



MAJOR ERNEST E. BRUCE, JR. Mission Effectiveness Officer **Aviation Section** 

## USAJPKCENSPWAR



CAPTAIN DONALD G. ANDREWS Training Officer, Aviation Sect



CAPT. MARVIN C. LAYFIELD Safety Officer, Aviation Section

#### USAJFKCENSPWAR



MAJOR ASA A. MCCRANIE Commander, Flight Detachment

USAJPKCENSPWAR



MAJOR JAMES L. EVANS CO, Avistion Company 3d Special Forces Group (Abr.)

#### USAJPKCENSPWAR



MAJOR CHARLES P. FRINKS CO, Aviation Company 6th Special Forces Group (Abr)

USAJPKCENSPWAR



MAJOR ALLEN L. JUNKO CO, Aviation Company 7th Special Porces Group (Abri)

USAREUR



MAJOR L. W. BROCKWELL CO, Aviation Company (Prov) 10th Special Furces Group (Abs)

#### USCONARC



MAJOR JAMES E. SHRADER Avn Advisor, Special Warfare and Civil Affairs Section

## USACDO



MAJOR PATRICK N. DELAVAN Aviation Staff Officer Spec Warfare & Civil Affairs Gp

#### USACDO



MAJ, HOWARD B. BLANCHARD Orgn & Eqpt Plans Officer (Ave) Spec. Warfare & Civil Affairs Gp

#### USACDO



CAPTAIN JOHN R. JETER, JR. COIN Air Operations Officer Special Warfare Agency

## "HOT CYCLE" DEBUT

■ NEWSMEN FOR THE FIRST TIME (JANUARY 28) VIEWED AN ENGINEERING FLIGHT TEST OF A HELICOPTER USING THE HUGHES "HOT CYCLE" PRINCIPLE, WHICH JETS HIGH ENERGY GASES FROM THE ROTOR BLADE TIP LOUVRES (TOP OF PHOTO), THE FLIGHT OCCURRED AT HUGHES TOOL COMPANY'S AIRCRAFT DIVISION IN CULVER CITY. CALIF. PILOTING THE AIRCRAFT DURING ITS FIRST PUBLIC FLIGHT WAS ROBERT G. FERRY (PICTURED), CHIEF EN-GINEERING TEST PILOT FOR THE AIRCRAFT DIVISION. DESIGNATED THE XV-9A, THE RESEARCH "TEST BED" WAS DEVELOPED FOR USATRECOM, BUT ALSO HAS COMMER-CIAL AIRLINER APPLICATIONS FOR THE FUTURE, THE "HOT CYCLE" CONCEPT IS INTENDED TO ELIMINATE THE COMPLEX, HEAVY GEAR BOXES ON NORMAL SHAFT EN-GINE AIRCRAFT, ALLOWING FOR A MORE POWERFUL HELICOPTER WHICH CAN LIFT MORE THAN TWICE ITS EMPTY WEIGHT IN CARGO OR PASSENGERS. (HUGHES)



#### LIEUTENANTS (CONT.)

PRANZ, CONRAD R.
Hq., 3rd Bn., 35th Artillery
APO New York 09801
GLEASON, ROBERT A.
2nd Aviation Co., 2nd Platoon
APO New York 09122
GOOD, THOMAS C.
Route 1, Box 195
Jerome, Idaho
HAMILTON, BOBBY J.
6120 Cochran
Houston, Texas

HARRISON, ULYSSES
3rd Howitzer Bn., 3rd Artillery
Fort Knox, Kentucky

HARTWELL, ROGER W. 36 Richfield Street N. Quincy 71, Massachusetts HENDERSON, ROBERT M.

11th Air Assault Division Fort Benning, Georgia 31905

HIGDON, THOMAS E. 2nd Aviation Company APO New York 09122

HIPF, GERALD T. 947 Dogwood Drive, Apartment D Columbus, Georgia 31907

HOLSTON, WILLIAM W., JR. Officer Student Company Fort Rucker, Alabama 36362

HOOK, BILLY H. Officer Student Company Fort Rucker, Alabama 36362

HORN, WILLIAM J. Box 313 Palouse, Washington

HOSKINSON, DENNIS J. 176th Repl. Co., 38th Repl. Bn. APO San Francisco 96220

HUGHES, JOHN D. 1207 5th Avenue Albany, Georgia

HUMPHRIES, ROBERT R. 11th Air Assault Division Fort Benning, Georgia 31905

IDOL, TONY G. 24th Infantry Division AFO San Francisco 96224

'IMMEL, RICHARD T. Avn. Co., 3rd Armd. Cav. Regt. APO New York 09034

### LIEUTENANTS (CONT.)

INMAN, TERRY W.

11th Armored Cavairy Regiment
Fort Meade, Maryland
JACKSON, LEON D.

U.S. Army Garrison
Fort Bragg, North Carolina
JOHNSTON, WILLIAM B,
Box 1598
Fort Benning, Georgia 31905

JORDAN, ROBERT J., JR. 5th Howitzer Bn., 27th Artillery Fort Lewis, Washington 98433

KARPINIA, WALTER 196-17 58th Avenue Flushing, New York 13365

KELLER, PAUL R. 1st Group, 10th Airborne APO New York 09108

KENNY, EDWARD T. 11th Armored Cavalry Regiment Fort Meade, Maryland

KIEFFER, CHARLES M. 704th Maintenance Battalion Fort Lewis, Washington

KILLGROVE, ALBERT G. 176th Replacement Company APO San Francisco 96220

LIPPARD, DAVID A. 18th Aviation Operations Det. APO San Francisco 96296

LOFTIS, VIRGIL D. Boyd Street Daisy, Tennessee LYSSY, FRED E.

1st Aviation Bn., 1st Infantry Div. Fort Riley, Kansas

MARCINKOWSKI, GARRETT C. P.O. Box 268

Fort Knox, Kentucky 40120 MARTIN, PAUL L. Star Route 1

Rison, Arkansas MILLER, KENNETH W. 2nd Howitzer Bn., 138th Artillery

Louisville, Kentucky MILLER, THEODORE C. Quarters 2456-B

Fort Lewis, Washington MOE, THELMER A.

Hq. Avn Sec, 6th Reg, ARADCOM Fort Baker, California

## LIEUTENANTS (CONT.)

MOORE, WALTER B. 3440 East McCornack Schofield Barracks, Oahu, Hawaii

MORROW, JOHN K. 11th Air Assault Division

Fort Benning, Georgia 31905 MORTIMORE, JOSEPH

U.S. Army Garrison
White Sands Missile Range, N.M.
MULLEN, EDWARD F., JR.

504th Aviation Battalion APO New York 09696

NASH, DANE P. Avn. Sec., 24th Inf. Div., Artillery

APO New York 09029 NEWMAN, TED D.

111 Reddell Scottsdale, Arizona NICHOLS, CHARLES LEE

7th Region ARADCOM McCord AFB, Washington NOYES, PETER M.

HHD, U.S.A. Support Command APO San Francisco 96307

NYDEGGER, NEIL K. 1722 Grandview Oceanside, California OLSEN, JERRY L.

520 West 6th Holton, Kansas OSSI, PETER S,

Hq., XV Corps, Aviation Section Presidio of San Francisco, Calif.

PARISH, CHARLES W., JR. 201 Lamont

201 Lamont San Antonio, Texas 78209 PARISH, JAMES H.

73rd Aviation Company APO San Francisco 96240 PATRICK, RHODERIC K., JR.

93 Harris Drive Fort Rucker, Alabama 36362

PAULIN, LOUIS C. Avn. Sec., 513th Intel. Corps Gp. APO New York 09757

PERRY, HARVEY J. 306 Spear Drive Fort Bragg, North Carolina



## NEW TRAINER

m BRISTLING WITH ANTENNAE, THE ARMY'S NEW TH-13T INSTRUMENT TRAINER IS AMPLY EQUIPPED FOR ALL-WEATHER FLIGHT, NAVI-GATION INSTRUMENTS ABOARD THE BELLSHIP INCLUDE OMNIRANGE, AUTOMATIC DIRECTION FINDING, MARKER BEACON, GLIDE SLOPE, SLAVED GYRO COMPASS AND AN ATTITUDE SYSTEM, USAAVNS' DEPT, OF ROTARY WING TRAINING TOOK DELIVERY OF THE FIRST OF 103 OF THE TRAINERS IN JANUARY, IN PICKING UP THE FIRST SHIP AT BELL'S FORT WORTH PLANT AND FLYING IT TO FT. RUCKER WHERE IT WILL BE BASED. THE TWO-PLACE TH-13T IS BASICALLY THE SAME AS THE ARMY'S OTHER OH-13 OBSERVATION HELICOPTERS, WITH THE ADDITION OF AVIONICS EQUIPMENT.

#### LIEUTENANTS (CONT.)

PHILLIPS, DANIEL A. Quarters 2532-A Fort Lewis, Washington REED, BURWIN P. P.O. Box 306 Deweyville, Texas REED, MAURICE L.

94th Engineer Battslion APO New York 09164 REFOIR, ROBERT G. 3536 St. Mary's Road, B-30

Columbus, Georgia 31906 REHARD, DALE F. 1134 Hampton Road

Kent, Ohio ROSS, FREDERICK L.

G-3, Avn. Det., Fort Lee Airfield Fort Lee, Virginia SABINE, JOHN S., IV 11305 Interlaken Drive, SW

Tacoma 99, Washington SCHWACHENWALD, RONALD A.

Box 1406, Steele Hall Fort Knox, Kentucky SHEPPARD, GWYNNE L.

319 Irving Drive Moore, Oklahoma

SHOCKLEY, CHARLES C. 4th AS&TA Platoon APO San Francisco 96291

SMITH, MARVIN D. 4th Battalion, 73rd Armor Fort Ord, California

SPRATT, DALE R. Hq., 3rd Brigade, 24th Inf. Div. APO New York 09029

STALLINGS, KENNETH W. 1st Infantry Division

Fort Riley, Kansas STINEBAUGH, JIMMY

Crowell. Texas

SWARTZ, JOSEPH B. Officer Student Co., Box 1040 Fort Rucker, Alabama 36362

TAYLOR, REX A., JR. 11th Air Assault Division

Fort Benning, Georgia 31905

## LIEUTENANTS (CONT.)

THOMPSON, OWEN R. 2nd Battalion, 83rd Artillery APO New York 09039

THOMPSON, WALTER L. 3926 Crutcher Street Dallas, Texas

TOOMER, CHARLES E.

Co. B, 4th Avn. Bn., 4th Inf. Div. Fort Lewis, Washington

TOOMEY, JOHN P. 1st U.S.A. Flight Detachment

NAS-Brooklyn, New York 11234 TURK, SAM C.

Box 163

Port Lavaca, Texas TUTTLE, STUART K., JR. 2 Blythe Way

Rumford, Rhode Island VOELZER, JAMES F.

Sharpe Army Depot Lathrop, California

WALGREN, WILLIAM E. 3rd Infantry Division - Artillery

APO New York 09036 WALKER, THOMAS F. 830 Gelknop

Grand Ledge, Michigan

WARREN, GARY W. 218 Grove Place San Antonio, Texas

WHITE, PHILLIP G. 11th Air Assault Division

Fort Benning, Georgia 31905 WILLER, EDWARD H.

22 Lealand New Providence, Tennessee 37042

WILLIAMS, THADDEUS E. 1st Division

Fort Riley, Kansas WILSON, LEONARD R. 11 Carey Street

Fort Rucker, Alabama 36362

WOLFE, MICHAEL J. 56th Aviation Detachment APO New York 09058

WORTHAM, BUEL R. 1208 Skyline Drive Little Rock, Arkansas

ZAWACKI, IAN E. 119th Aviation Company APO San Francisco 96295

## CWO'S

BECKER, MILES S. 1107 Dunbar Avenue Columbus, Georgia 31906

BIGELOW, ROBERT W. 22nd Signal Group, Air Section

APO New York 09164 BRANCH, EDWARD B.

3rd Transportation Company Fort Belvoir, Virginia

BRENNER, DAVID A. 139 Dearborn Avenue

Waterloo, Iowa BROWN, ULYESS V.

478th Flying Crane Company Fort Benning, Georgia 31905 CAMPBELL, JAMES D.

2258 Fields Avenue Columbus, Georgia 31903

EICHELBERGER, ROGER R. 4th Transportation Company APO New York 09165

BUBANKS, HOWARD, JR. 306 Sandy Road

Fort Benning, Georgia 31905 HARRY, CLIFFORD R. 2715 Hilyer Drive

Columbus, Georgia HATTER, RICHARD L.

Troop D, 3/8th Cavalry APO New York 09028 HAWKOS, GORDON C.

Second U.S. Army Flight Det. Fort George G. Meade, Maryland

HECK, CLEATUS L. 503rd Aviation Battalion APO New York 09165

HENDERSON, WILLIAM F. 2203 Somerset Avenue Columbus, Georgia

HILL, ROLLIN A. Aviation Co., 2nd Armored Cav.

APO New York 09696

HOLLOWAY, DONALD R. Headquarters DUSAA

Fort Belvoir, Virginia HUESER, JOHN L.

1st Transportation Bn. (Seaborne) Corpus Christi, Texas JACKSON, ROY D.

245 Everett Drive Colorado Springs, Colorado

## HEAVY-LIFT CRANE

■ THIS HEAVY-LIFT CRANE-TYPE HELICOP-TER, WHICH COULD BE FLYING IN FIVE YEARS ACCORDING TO LOCKHEED-CALIFORNIA EN-GINEERS, HAS THE CAPABILITY OF CARRYING 100 TROOPS OR 12 TO 20 TONS OF CARGO IN A CRANE CONFIGURATION. DESPITE ITS BIG PAY-LOAD AND SIZE (90,000 LBS, 100-FOOT LENGTH. AND 120-FOOT ROTOR BLADES), THE HELICOP-TER WOULD HAVE INHERENT STABILITY DUE TO ITS RIGID-BOTOR SYSTEM, PASSENGER OR CARGO PODS COULD BE INTERCHANGED OR REMOVED TO SUIT THE MISSION, A MILITARY VERSION OF THE CRANE COULD CARRY PER-SONNEL, TANKS, OR SUPPLIES IN VIRTUALLY ALL-WEATHER CONDITIONS, OR SERVE AS A STABLE GUN PLATFORM. (LOCKHEED)



### CWO'S (CONT.)

KAUL, LLOYD K. 331 Mt. Pleasant Drive Wood Bridge, Virginia LOMBARDO, RICCARDO J. 2941 Avondale Road Columbus, Georgia 31903 MYERS, RICHARD E. 3rd Battalion, 7th Cavalry APO New York 09036 NILES, DOUGLAS W. 2545 Pye Avenue Columbus, Georgia REISINGER, EDWARD A. Company A, 101st Aviation Bn. Fort Campbell, Kentucky SCOTT, LLOYD D. 621 South 45th Street Lawton, Oklahoma SPAKES, GLENN C. Company A, 5th Aviation Battalion

## Fort Carson, Colorado WARRANT OFFICERS

ADAMS, RAYMOND J., JR. 1707 Moisant Drive Kenner, Louisiana 70162 ALLEN, THOMAS E. P.O. Box 24 Llano, Texas ARMSTRONG, DOUGLAS R. 120th Aviation Company APO San Francisco 96307 BELCHER, WILLIE R. 126 Wesley Avenue Baltimore, Maryland BENNETT, EDGAR J. 420 Market Street Havre De Grace, Maryland 21078 BERRY, WADE H. Route 1, Box 181 Jackson, Mississippi BURGER, LUDWIG

176th Repl. Co., 38th Repl. Bn.

Avn. Co., 7th SFG (Abn.) 1st SF

Fort Bragg, North Carolina 28307

Payetteville, North Carolina

APO San Francisco 96220

BUTRYN, WILLIAM Z.

CLARK, HARRY M. 1821 Wayne Lane WO'S (CONT.)

CLARK, JERRY P. B Co., 4th Avn. Bn., 4th Inf. Div. Fort Lewis, Washington 98433 CLAXTON, JOHN D. 114th Aviation Company (AML) APO San Francisco 96357 CLAYSON, HAROLD E. 5th Aviation Bn., 5th Infantry Div. Fort Carson, Colorado COMBS, GEORGE J. 2706 Seminole Street Amarillo, Texas 79103 CONNER, NORMAN L. 3558 East McDowell Road Mesa, Arizona COPELAND, WILLIAM L. 121st Aviation Company (AML) APO San Francisco 96296 COYKENDALL, DOUGLAS W. 18th Aviation Company APO San Francisco 96240 DAVIS, CHARLES J. 67th Aviation Company APO New York 09107 DAVIS, HARRY L., JR. 119 Burgess Avenue Greenville, South Carolina DAVIS, JOSEPH M. Arkanaas School for the Deaf Little Rock, Arkansas DeBACA, EARL F. 10020 Mercedes El Paso, Texas DILLINGHAM, JOHN R. 73rd Aviation Company APO San Francisco 96240 ECKEL, HASKO K.W. HHD, 145th Aviation Battalion APO San Francisco 96307 FISHER, GLADE C. 1519 Kensington Avenue Salt Lake City, Utah FORD, LARRY K. 3241 Hughes Street Huntington, West Virginia FRAIN, PHILIP V. Box 106 Onekama, Michigan FREEMAN, ALVIN C.

1411 Arkansas Avenue

Killeen, Texas

WO'S (CONT.) FREEMAN, RONALD R. U.S.A. Support Command APO San Francisco 96243 GATZA, EDWARD 114th Aviation Company (AML) APO San Francisco 96357 GILBERT, RONALD L. 121st Aviation Company (AML) APO San Francisco 96296 GILL, CECIL O. 651 Cornish Drive Encinitas, California GILLMAN, JAY E. 918 Pleasant Avenue Decorah, Iowa GIPSON, THOMAS C., JR. 565 Holland Avenue Philadelphia, Mississippi GOULART, THOMAS M. Company E, 725th Maint, Bn. APO San Francisco 96225 HERRICK, PAUL A. 18th Aviation Company APO San Francisco 96240 HOLLOWAY, VICTOR N., JR. Officer Student Company Fort Rucker, Alabama 36362 HUNT, MASON E. 490 East Amber Place San Antonio, Texas HUNT, RICHARD L. 18th Aviation Company APO San Francisco 96240 KAMMERER, LARRY E. 2014 W. McArthur Road, Lot #5 Wichita, Kansas KENDRICK, KENNETH T. 5823 Murchison Road Fayetteville, North Carolina KINCAID, GRANVIL R., JR. 12th Signal Group APO New York 09046 KOSINSKI, MICHAEL P.O. Box 1571 Fort Benning, Georgia 31905 KOVACS, ZOLTAN A. 117th Aviation Company (AML) APO San Francisco 96238



## NASSA SYMPOSIUM

WELCOMING SEVERAL OF THE SPEAKERS AND HEAD TABLE GUESTS AT THE SEVENTH ANNUAL. ARMY AVIATION CONTRACT SERVICES SYM-POSIUM LUNCHEON HELD IN WASHINGTON, D.C., IS W.N. "BUCK" HALL, PRESIDENT OF NATIONAL AEROSPACE SERVICES ASS'N, WHICH SPON-SORED THE MEETING. PICTURED, L. TO R., ARE COL, BOLICK A. SABOLSKY, USA MISSILE COMMAND, REDSTONE ARSENAL; BRIG. GEN. ROBERT E, PETERS, ASST DCSLOG (MR): MAJ. GEN. CLIFTON F. VON KANN, CG, USAAC, FORT RUCKER, ALA.; BUCK HALL, PRES., NASSA; MAJ. GEN. JOHN M. CONE, DIRECTOR OF QUALITY ASSURANCE, HQ, AMC; AND BRIG. GEN. JOHN J. TOLSON, DIRECTOR OF ARMY AVIATION, OACSFOR, (NASSA PHOTO)

## WO'S (CONT.)

KRUEGER, CHARLES A. 1060 Quilliams Road Cleveland, Ohio KUDLICH, EDGAR B. 232nd Signal Company APO San Francisco 96243 LANDRUM, RICHARD F. 11401 S.W. 53rd Terrace

Miami, Florida LASLEY, BEDFORD W., SR. USA Avn Maint-Grubbs Hangar Nashville, Tennessee.

LITT, LOUIS F. 114th Aviation Company (AML) APO San Francisco 96357

MACKLIN, RONALD W. 121st Aviation Company (AML)

APO San Francisco 96296 McLAUGHLIN, CLAYTON E.

Troop G, 17th Cavalry Fort Ord, California MCNAIR, CHARLES T.

Quarters 2544-C Fort Lewis, Washington 98433 MCRANIE, GRIFFEN L.

Co. B, 2nd Avn. Bn., 2nd Inf. Div. Fort Benning, Georgia 31905

MEADOWS, JOHN W. 2709 W. Washington Street Indianapolis, Indiana

MILLER, DION H. 18322 9th N.W. Seattle, Washington

MITCHELL, CLIFFORD J. 1845 Oakview Lane Arcadia, California

MOORE, WINDSOR W. 1906 East Palm Lane Phoenix, Arizona

MORI, SELJI E. Officer Student Co., Box 1037 Fort Rucker, Alabama 36362

MYERS, MAURICE G. 62nd Aviation Company (AML) APO San Francisco 96357

NAKAMURA, BENSON A. 106 East Brunson, Apartment 2 Enterprise, Alabama

## WO'S (CONT.)

NIPPERT, WAYNE N. 11934 Gloger Street Houston, Texas

OLSEN, RICHARD H., JR. 5502 Virginia Avenue Parma, Ohio

PALIVODA, DANIEL G. 351 Tennant Avenue Columbus, Georgia 31901

PARSONS, JOHN E. Officer Student Company Fort Rucker, Alabama 36362

PATTON, JAMES F., JR. 3408 South Louisville

Fort Smith, Arkansas POULTON, CHARLES R., II 1112 West 7th

Okmulgee, Oklahoma QUATTLEBAUM, HAROLD D. 120th Aviation Company (AML) APO San Francisco 96243

RAGSDALE, ROBERT M. 176th Repl. Co., 38th Repl. Bn. APO San Francisco 96220

RANUM, LOWELL T. 21005 Donora Avenue-5 Torrance, California

REMY, JAMES E. 53rd Company, 5th Student Bn. Fort Benning, Georgia 31905 SCHAAL, THOMAS A.

229th Aslt. Heptr. Bn., 11th AAD Fort Benning, Georgia 31905 SELLERS, WILLIAM C.

73rd Aviation Company APO San Francisco 96240 SIM, JAMES A.

Company D, 724th Maint. Bn. APO New York 09112 SPEIGHTS, MANUEL R.

3320 Midway Street Shreveport, Louisiana SPURLOCK, RICHARD E.

1315 Galena Pike West Portsmouth, Ohio STANLEY, EMERSON E.

Company B, 3rd Aviation Battalion APO New York 09036

STIMAC, ELMER V. 114th Aviation Company (AML) APO San Francisco 96357

#### WO'S(CONT.)

STREAM, HENRY C. 10056 19th Avenue, S.W. Seattle, Washington SUDDARTH, DONALD O. Artillery Flt. Btry., 20th Arty Bn. APO San Francisco 96224

SULLIVAN, DONALD E. 120th Aviation Company APO San Francisco 96307

TEICH, HENRY W. 311 North 6th Street Rogers, Arkansas VALENTINE, RALPH A.

1st Infantry Division Fort Riley, Kansas WRIGHT, RICHARD J.

Co. B. 7th Avn. Bn., 7th Inf. Div. APO San Francisco 96207

### **OBITUARIES**

## LYAL H. ERWIN

Captain Lyal H. Erwin, assigned to the 68th Aviation Company, APO San Francisco 96307 (Vietnam), sustained fatal injuries when his UH-1B helicopter crashed during the conduct of a service mission near Bien Hos, Vietnam, on January 15, 1965. He is survived by his widow, Mrs. Theresa Erwin, of 739 Wright Drive, Columbus, Georgia.

## CORRECTION

The 1963-1964 "Outstanding Unit Award" was presented to the 11th Air Assault Division and the attached 10th Air Transport Brigade. The staff regrets that the 4-page photochart accompanying the award article may have given "AA" readers the impression that the 10th ATB was a part of the 11th Air Assault Division. The unit is attached to the division only for administration and training. as a matter of convenience.



## AAAA NEWS

## AAAA SOLICITS AVIATION TECH TRAINING SCHOOLS FOR VIEWS

Expressing concern for the increasing lack of trained and certificated FAA A & P Mechanics that are entering military service, Carl D. Stephenson, national Vice President for Public Affairs, AAAA, contacted the 43 members of the Aviation Technical Educational Council, a technical association representing schools that offer instruction in aeronautical engineering and A & P Mechanic training.

In his correspondence, Stephenson solicited the thoughts or suggestions of each institution on how the AAAA as a professional organization could assist in any way to alleviate what appears to be a mutual problem of the Educational Council and the Aeronautical Training Division of the U.S. Army.

The initial replies received by Stephenson indicated that Association assistance should be in one or more of the following forms:

Glamorize (or upgrade) the name of "mechanic" - help in securing Army assistance in the provision of training aids, mock-ups, etc. - help in securing a closer coordination between the ATEC schools and Army training and recruiters - have the AAAA assist by counseling students - have the AAAA assist by promoting the A & P Program - help to attain military recognition of the A & P rating.

It is expected that Stephenson and

other AAAA representatives will continue to work closely with the Council in this problem area.

## REP. HUDDLESTON CITES PROFESSIONALISM OF AA

A distinguished guest at a recent luncheon meeting of the Washington, D.C. Chapter of AAAA, Representative George Huddleston, Jr. (D-Ala.) sent the following note of appreciation to Lewis E. Casner, president of the D.C. Chapter:

".. Just a note to express my appreciation to the membership of the Army Aviation Association of America for their courtesy in having me as a guest at the 11 December luncheon meeting of the Washington, D.C. Chapter. It was indeed a pleasure to meet on an informal basis so many participants in the Army Aviation program.

My ten years' affiliation with the House Armed Services Committee has brought me in close contact with the development of the Army Aviation program. As a representative to Congress from the State of Alabama, the home of Fort Rucker and Army Aviation, I understandably hold a keen interest in the future of this important aspect of our defense establishment. The high degree of professionalism displayed by the military members of your association, as well as the obvious integrity of those representatives of the aviation industry whom I met at your luncheon, was most gratifying and leaves little doubt as to the ability of Army Aviation to meet either the technological or tactical challenges with which it may be faced in the future.

Please relay my personal regards to the members of your association, and to all the officers and men of Army Aviation, wherever they may be serving."

## USAREUR REGION COMPLETES 1965 SURVEY OF ACTIVITIES

Prior to participating in its 1965 Annual Meeting at the U.S. Army Recreation Center located at Garmisch, Germany, the USAREUR Region conducted a membership survey as part of its annual review of Regional activities held during the April, 1964-March, 1965 period.

Nine hundred and fifty-two (952) AAAA members are affiliated with



■ Colonel Edward McMaken (left), president of the Army Aviation Center Chapter, is shown presenting a "Class Membership Incentive Refund Check" of \$159 to Capt. Duane A. Bartholmey, class leader of OF-WAC 65-1, upon the class attainment of 100 per cent membership in AAAA before the completion of "A" phase training at USAAVNS.

twelve (12) Chapters located in the USAREUR Region while an additional one hundred and eighty-seven (187) AAAA members reside within the Regional area, but are not affiliated with an active AAAA Chapter.

The USAREUR Chapters and their degree of '64-'65 activity are as

follows:

(1) Stuttgart Chapter, 183 members, 5 membership meetings; (2) Hanau Chapter, 173 members and 3 meetings; (3) Rhine Valley Chapter, 154 members/2 meetings; (4) Nurnberg Chapter, 107 members/ 1 meeting; (5) Main River Valley Chapter, 77 members/2 meetings: (6) Munich Chapter, 57 members/ 2 meetings; (7) Mainz Chapter, 51 memb/4 mtgs; (8) Lech River Chapter, 50 members/1 mtg; (9) Illesheim Chapter, 38 members/1 mtg; (10) Fulda Chapter, 28 members/ 2 mtgs; (11) Northern Italy Chapter, 21 members/1 meeting; (12) Berlin Chapter (probationary), 13 members/1 meeting.

## MAPS - MILITARY AVIATION PLACEMENT SERVICE

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resume and photo, write AAAA,

Attn: Box 5174.

## '64 AAAA CHAPTER PRESIDENTS



Major Charles E. Connaway Alaska Chapter



Colonel Edward McMaken Army Aviation Center Chapter



Colonel David G. Cogswell Atlanta Chapter



Lieutonani Colonel John Bergner Bluegrass Chapter



Colonel
Albert A, Wilson
David E, Condon Chapter



Colonel Hugh W. Webb Davison AAF Chapter



Major Roger H, Coye Fort Bragg Chapter



Lieutenant Colonel Van T. Barfoot Fort Hood Chapter



Colonel J. Elmore Swenson Fort Monroe Chapter



Major Melvin K. Goulding Fort Welters Chapter



Colonel William B. Tuck Port Benning Chapter



Colonel Harold F. Via Grand Canyon Chapter



Major Billy C, Hall Bawell Chapter



Colonel Frederick C. Goodwin Jimmie L. Hilton Chapter



Major Thomas H, Small Keystone Chapter



Major Bernard D, Thompson Korean Chapter

## '64 AAAA CHAPTER PRESIDENTS



Captain Robert E. Aisslie Latin American Chapter



Lieuteaunt Colonel George E. Handley Lech River Chapter



Eric H. Petersen Lindbergh Chapter



Major Gordon H, House Mainz Chapter



Chief Warrast Officer Alvin Lee, Jr. Manich Chapter



Chief Warrant Officer Charles H, Steffani, Jr. Northern Haly Chapter



Lieutenant Colonel Stephen G. Martin Nursberg Chapter



Colonel Allert Newton Rhise Valley Chapter



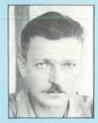
Colonel Floyd H. Buch Richard H. Bitter Chapter



William E. Johnson Butgers University Chapter



Major Jesse F. Van Sand Stuttgart Chapter



Major George J. Young Vinh Long Chapter

## AAAA CHAPTER ACTIVITIES

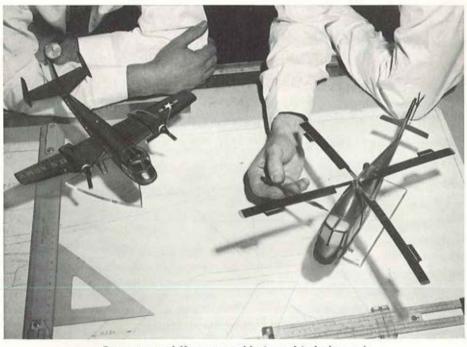


Lewis E. Casner Washington, D.C. Chapter

- PERRUARY 18. Limbergh Chapter profesatomal dinner meeting. Hevo Mill, 4749 Gravols, Col. Robert M. Hamilton, Director of USARAAH, Ft. Rucker, Als., Quest Speaker. 7 p.m.
- # PEBRUARY 19. Richard H. Bitter professional dinser meeting. Petroleum Chib. Henry Naulton, Service Manager, Roeing Vertol Division, Guest Speaker, Refreshments at 6:20 p.m.
- # PERRUARY 15. Professional meeting Butgers University Chapter, Showing of "Wings at the Tree Tops."
- PEBRUARY 24. Hawaii Chapter combined business and social meeting. Schoffeld Barracks Officers' Clab. Election of Chapter Officers for '45-'47 term. Refreshments, 1630 bours.
- FERRUARY 27, Alarmo Chapter combined bestness meeting and dimer-dance, Fort Sam Houston Officers' Open Mess, Installation of '65-'67 Chapter Officers. Refreshments, 1830 hours; dimer, 2000 hours.
- MARCH 3. Fort Bragg Chapter professional dinner meeting. 824 Airborne Division Officers' Club. Brig. General Joseph W. Stilwell, Jr., Commanding General, USAIPKCENSPWAR, Gener Speaker, Refreshments, 1830 hours' dinner, 1930 hours.
- MARCH 3-7. USAREUR Region Annual Meeting. Garmisch, Germany. Detailed programming from C.O., Company B, 3d Avn Bn, 3d Inf Div, APO U.S. Forces 99036.

38

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## ARMY AVIATION MAGAZINE

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See section 157.4 of the postal manual.

"RETURN REQUESTED" applies in those instances wherein forwarding is not permissible. The publisher requests the return of the entire issue under the "RETURN REQUEST" provisions of the postal manual.

## GEN. VON KANN TO RETIRE, ENDING 26-YEAR CAREER

Major General Clifton F. von Kann, commanding general of the U.S. Army Aviation Center and commandant of the U.S. Army Aviation School, announced his retirement from the Army, effective Feb. 28.

His retirement ends a military career which began with being commissioned in the Regular Army in 1938. He came to Fort Rucker in August, 1963, after commanding the 1st Cavalry Division. He has not announced his retirement plans.

## GEN. TOLSON, COL. SENEFF ASSUME NEW COMMANDS

Brig. Gen. John J. Tolson (right), Director of Army Aviation, OACS-FOR, has been nominated for the rank of major general and will







Tolson

assume the duties of Commanding General of the U.S. Army Aviation Center on or about March 1. Col. George P. Seneff, Jr., 11th Air Assault Division, Ft. Benning. Ga., has been nominated for brigadier general and will replace Gen. Tolson as Director of Army Aviation.