

A SPECIAL REPORT COVERING THE AHIP PROGRAM

1984 AAAA DIRECTORY: THE INDUSTRY TEAM

Army Aviation

SEPTEMBER 30, 1984



IN THE ARMY'S HANDS

**Bell's OH58D is
right on target**

Army Aviation

SEPTEMBER 30, 1984

VOL. 33 — NO. 7

ARMY AVIATION

A professional journal
endorsed by the Army
Aviation Association of
America (AAAA)

Publisher

Arthur H. Kesten

Editor

Dale Kesten

Associate Editor

John Kiernan

Associate Publisher

Dorothy Kesten

Business Manager

Lynn Coakley

Fulfillment Manager

Jill Thomas

Staff Assistants

Debbie Coley

Mary Ann Stirling

Joan Zinsky



Advertising Manager

Terrence M. Coakley

Display and classified
advertising rates are
listed in SRDS Business
Publications,
Classification 90.

For advertising information,
call (203) 226-8184

SEPTEMBER FEATURES

AAAA Letter

Paul L. Hendrickson
Treasurer, AAAA 6

AHIP: Meeting
Aeroscout Needs
by BG Wayne Knudson
Aviation Officer, DA 11

SPECIAL REPORT: THE ARMY HELICOPTER IMPROVEMENT PROGRAM (AHIP)

OH-58D:
Now and Tomorrow
COL William H. Forster 17
A Pilot's Perspective
MAJ Ralph M. Buie 21

Air-to-Air
Stinger on AHIP
LTC Leo J. Asselin 51

AHIP and the
Field Artillery
MAJ Mark A. Ison 54

OH-58D: A New
Era in Training
CPT David M. Snellen 57
ASH-PMO Photochart 60

OTHER FEATURES

Pullout Directory:
1984 Industry Team 25

AAAA Calendar 64
AAAA Membership Contest 66
PCS—Changes of Address 68



SUBSCRIPTION DATA
ARMY AVIATION (ISSN
0004-248X) is published
monthly, except April
and July by Army Aviation
Publications, 1 Crestwood
Road, Westport, CT. 06880.
Phone: (203) 226-8184 and
(203) 226-8185.

Subscription rates for
non-AAAA members: \$13,
one year; \$25, two years;
add \$7.50 per year for
foreign addresses other
than military APO's.

The receipt of change of
addresses is verified by
the publication of the
residence change in the
PCS or "Takeoffs"
column of the magazine.

Second Class Postage
paid at Westport, Conn.

CHINOOK DELTA. NOW IT TAKES THE WHOLE SHOOTING MATCH.

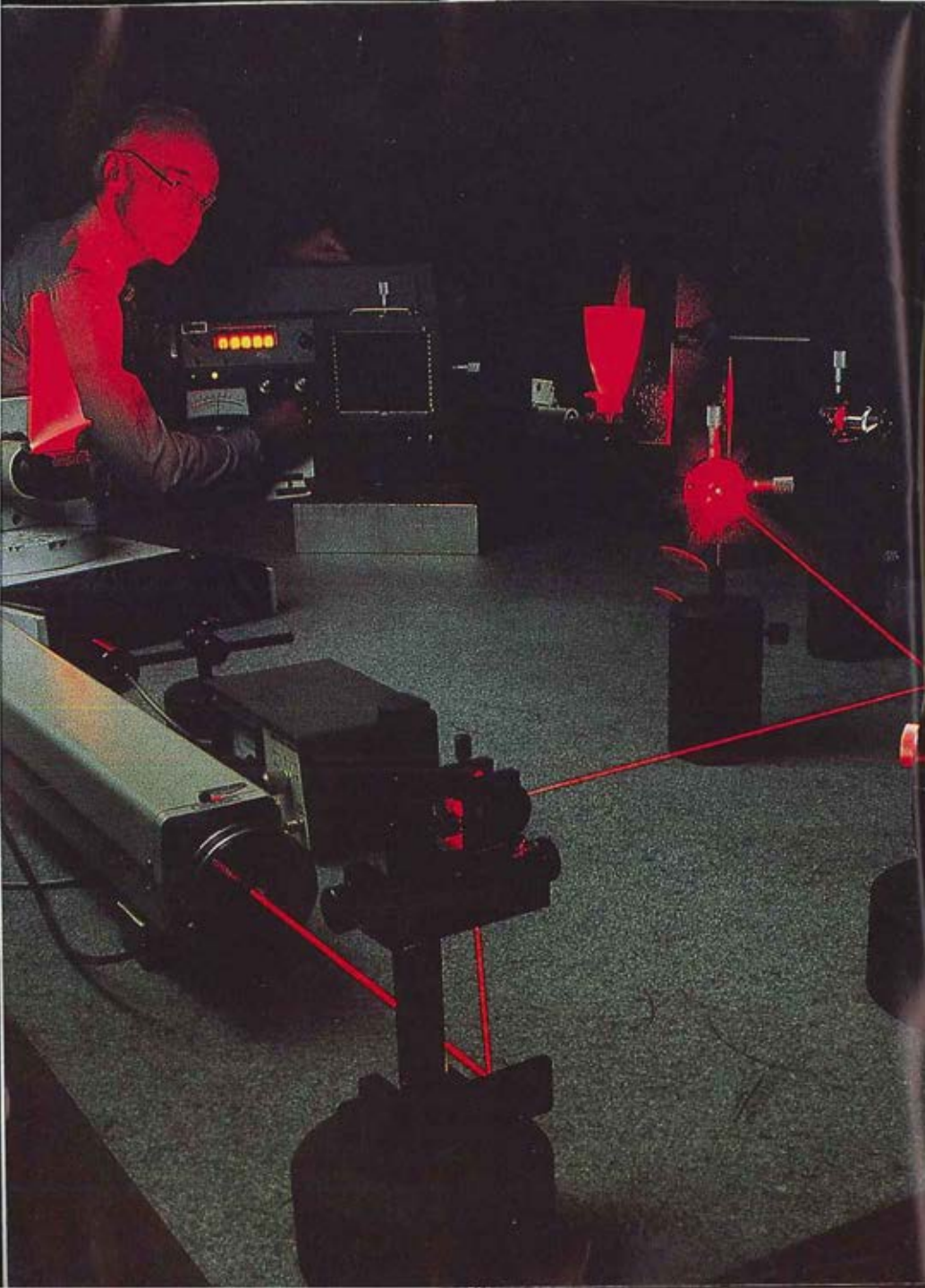
The new Chinook D model moves the M-198, 32 rounds of ammunition and an eleven-man crew in a single lift—11 tons at 140 miles per hour. Think what that mobility means in combat, shifting quickly from one firing position to another.

For productivity that enhances the ground commander's mobility and efficiency, the Boeing Chinook Delta...good news for the combat commander.

Boeing Helicopters, Philadelphia, PA 19142. Telephone 215-522-3751 or telex 845-205.



BOEING



Avco Lycoming is winning the battles of tomorrow on the shop floor today.

The battles of the future will be won with equipment built in the factories of the future. Those factories are at Avco Lycoming.

In Stratford, Connecticut; Greer, South Carolina; and Williamsport, Pennsylvania. A multimillion-dollar investment in advanced production technologies is paying off. In manufacturing information systems, parts fabrication, final assembly, test and quality assurance.

The factory of the future is a continuous process of applying advanced manufacturing technologies to the entire shop floor. For example, welding, blade testing, and nonintrusive combustor analysis are now performed by lasers. And, while automation is dramatically increasing efficiency, craftsmanship is still very much alive. The result of this modern day industrial revolution is one of the most advanced gas turbine manufacturing capabilities in the world. A factory of the future in our time.

The next forty years.

Now, we're working to help build a new generation of engines to power a new generation of Army aircraft. Developed to answer the Army requirement for an Advanced Technology Demonstrator Engine (ATDE), the PLT34 represents the

highest level of performance yet achieved in the 800-1200 shp size and class.

In its production version, the ATDE/PLT34 turboshaft, designated the AL34, produces more power, with greater thermal efficiency in a compact, lightweight package. From day one, it was designed to meet the unique requirements of U.S. Army rotary wing aircraft, using proven and improving technologies to build in reliability and maintainability.

The ATDE/PLT34 has met all performance objectives with more than 1000 hours of successful test runs and six years of development behind it—more than any other engine in its class. The ATDE/PLT34, the prime candidate for LHX,

In for the duration.

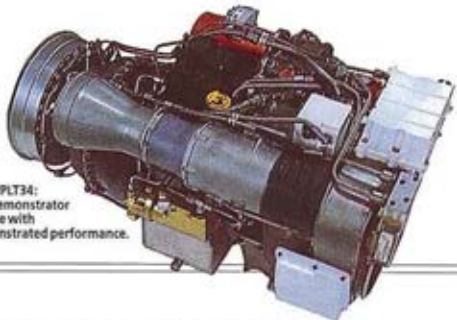
With engine deliveries running consistently on target or ahead of commitments, to the highest qual-



The factory of the future:
From factory model to model factory.

ity standards, with technology second to none, Avco Lycoming is clearly the company to provide Army Aviation the equipment and support needed for the LHX and other aircraft of the future: the very best.

Avco Lycoming. Power for LHX.



ATDE/PLT34:
The demonstrator
engine with
demonstrated performance.

AVCO LYCOMING DIVISION
ACTION FOR EXCELLENCE



Army Aviation Association

1 CRESTWOOD ROAD, WESTPORT, CT 06880
(203) 226-8184



I've been asked, as the Association's Secretary-Treasurer, to serve as the third "correspondent" in the series of information letters being prepared monthly by National Board members on the various programs, policies, and procedures that are pursued by the AAAA. For the record, my secretarial responsibilities are nil — these are assumed by the National Office. However, my fiscal responsibilities are many.

With the help of the Ass'n accountants and the National Office, I prepare and maintain all records attesting to the receipt, custody, and disbursement of AAAA funds, and prepare an annual budget based upon our planned receipts and disbursements. All fiscal records and the annual budget are reviewed by the full Executive Board with any and all recommendations for specific programs and/or line item expenditures — including mine — being subject to Board approval.

Essentially, our Ass'n revenues are derived from dues — both individual and corporate — and our national convention. The bulk of our expenditures underwrite both tangibles (magazine, lapel pins, banners, decals, etc.) and services; the Ass'n doesn't have any employee (payroll), rent, or office equipment expenses — these are assumed by the contractor who receives an annual "per member" service fee determined by the Board.

Our fiscal year runs from 1 January to 31 December, and our balance sheet as at 12/31/83 showed assets of \$283,633, liabilities of \$181,762, an Emergency Fund of \$50,000, and an Operating Fund of \$51,871. For the same period our revenues were \$260,200; expenses were \$216,900; and revenues exceeded expenses by \$43,300. One fallout of this "plus" status is that we plan to substantially increase our support of our worldwide Chapter activities.

I've tried to keep it simple . . . If you have a specific question pertaining to AAAA finances, I'll be happy to respond to your correspondence. Address it to me in care of the National Office.

Paul L. Hendrickson
Secretary-Treasurer, AAAA



**Introducing
the ultimate ally.**



General Motors Defense Group. commitment to excellence in

Since General Motors first volunteered in the defense of freedom, tactics have progressed from trenches to tanks to technology. And GM has kept pace.

Of course General Motors builds military vehicles. Our largest contract since WWII is for the Commercial Utility Cargo Vehicle (CUCV) for use by all U.S. services. We're also prime contractor on the eight-wheeled Light Armored Vehicle (LAV) for the Marine Corps. From the terrain to the turret. In fact, there's hardly a tracked or new-generation wheeled vehicle in the U.S. military inventory that GM doesn't provide with a transmission or an engine.



The capabilities of the General Motors Defense Group are hardly landlocked. At sea, turbine generators from the Defense Group provide power for the *Spruance*-class destroyer and the *Ticonderoga*-class Aegis cruiser.

GM inertial systems fly on the Air Force's transport and tanker fleets, AWACS aircraft,

and Titan launch vehicles. Our digital systems perform the guidance processing on NASA's Delta launch vehicle and the Air Force's Inertial Upper Stage. GM builds high-performance digital processors for the F-16, the HH-60D Night Hawk, LANTIRN, and the C-5B Madar II programs. Our engines provide power for the Navy's E-2C and P-3C—and more.

A new group, with a renewed the technology of defense.

Now there's a new group at GM: the General Motors Defense Group. Its energy, talent, and brains are dedicated to supporting those charged with keeping peace around the globe.

Forming the heart of the group are four divisions and operations at the leading edge of the corporation's defense capacity: Allison Gas Turbine, Delco Systems, Diesel Division

of GM of Canada, and the newly formed Military Vehicles Operation. But the Defense Group is another point of contact between the defense community and every part of GM capable of working on its behalf. Detroit Diesel Allison Division of General Motors continues to be a major supplier to the defense industry of engines and transmissions.



General Motors is the largest engineering and manufacturing company in the world. With more employees than the top ten U.S. defense contractors.

We budget more every year for research and development than any other company. We're doing the kind of R&D that maximizes the effectiveness of an armed force. And minimizes the costs.

Providing reliable, available, maintainable and dependable support is nothing new for the people who supplied ambulances to Pershing's American Expeditionary Force.

What is new is the GM group now committed to providing the latest in tactical technology—on time and on cost. The General Motors Defense Group. So enlist the aid of the ultimate ally. Call 1-800-THE ALLY.

THE ULTIMATE ALLY



GENERAL MOTORS DEFENSE GROUP



As close as a CRT has ever come to thinking like a military pilot.

A pilot on a military mission has little time to make decisions. Split seconds at most.

Which means an avionics system has to do more than supply data. It has to supply the right information, at the right time, in an easy-to-read format.

At Collins Government Avionics, our second-generation color-display systems do just that—by automating both routine and complex functions, organizing information and effectively advising the crew with multi-function color CRTs.

These CRT displays use a variety of formats. For example: TV or FLIR pictures of the target overlaid with stores and EW information. Moving maps with flight routes and overlays of friendly as well as hostile installations. All tailored to the pilot's essential decision making needs. Whatever the aircraft, whatever the mission.

In the future, as missions are redefined,



Collins military color CRT displays.

software changes can easily update the displays without expensive new hardware.

Collins color display systems. Improving the reliability of avionics with systems that reduce the number of displays and controls, weigh less, consume less power, and, above all, help pilots take the swiftest possible action.

Call us for more information about integrating avionics systems with color CRT displays. We think it's a technology that will lead to swift action on your part, too.

COLLINS GOVERNMENT AVIONICS DIVISION

50 Years of Collins Leadership

Rockwell International, Cedar Rapids, Iowa
52498, (319) 395-2208.



Rockwell International

...where science gets down to business

AHIP: Meeting Aeroscout Needs

By BG Wayne
Knudson,
Director of
Force Requirements
and Army
Aviation Officer,
ODCSOPS,
Dept. of the Army



In the February 1984 issue of **Army Aviation**, I talked about the APACHE and the excitement within the Aviation Community about its future fielding to attack helicopter and air cavalry units. I would be remiss if I didn't talk about another innovative system and partner in the Aviation Scout/Attack Team — the AHIP!

The articles in this month's special report on the AHIP Advanced Scout Helicopter are indicative of the enthusiasm and confidence the Aviation Community has with AHIP.

Meeting the need

In November 1981 the Army executed an **Army Helicopter Improvement Program (AHIP)**. It marked the end of a long search for a near term scout to replace the aging OH-58 Vietnam vintage helicopter. The acronym AHIP transferred from the Army Helicopter Improvement Program to the common name for the proposed modified OH-58 Observation Helicopter, technically referred to as the OH-58D. AHIP, the aeroscout/battlefield coordination helicopter, was born!

Recent armed conflicts in the world have revealed that a typical battle is swift in action and highly lethal. Command, Control and Coordination will be paramount on the battlefield. The AHIP, with its improved NOE communications and navigation, Mast Mounted Sight with day/

night target acquisition and designation, and fully integrated multiplexed cockpit, will enable an Aeroscout team leader or Air Battle captain to orchestrate the battle. The control and coordination will encompass the combat assets of ground units, aviation units, artillery, Air Force Tactical Air Support and organic scout/attack teams. The need for the AHIP is now.

Proving its worth

Where is AHIP now? In July 1984, Bell Helicopter completed over 1,000 ground and flight contractor testing hours and the results were very favorable. All **Required Operational Capability (ROC)** requirements were met. On the 8th of July, Bell Helicopter transferred an AHIP prototype to the Army for the start of **Development Testing II (DT II)** at Yuma Proving Grounds, AZ. DT II wound up on 4 September when the AHIP moved to Fort Hunter-Liggett, CA, for **Operational Testing II (OT II)**.

OT II will be the first time AHIP is placed in a user tactical environment to evaluate its operational effectiveness and suitability as an aeroscout/battlefield coordination helicopter. The evaluation will be conducted in three phases from 5 September 1984 to 30 January 1985. It includes an examination of the ability of the AHIP aeroscout to locate, designate, and hand-off battlefield targets to attack helicopters and ground units under varying conditions of visibility, range, time of day, and terrain. Included will be an examination of target acquisition, hand-off, and designation times. Upon completion of OT II, the next milestones are the production decision in Spring 1985 and finally IOC in the Summer of 1986.

A system that works

AHIP meets the Army's near term aeroscout requirement. It is an OH-58A helicopter modified to provide improved terrain flight navigation and communications with provisions for air-to-air self-defense missile systems and enhanced vision equipment for target acquisition and designation and improved survivability. It is a survivable system and provides commanders with real-time combat information, command and control, reconnaissance, security, aerial observation, and target acquisition/designation operating with attack helicopter, air cavalry and field artillery units around the clock in reduced visibility conditions.

A special note

Congratulations are in order for five senior officers affiliated with Army Aviation. All have been selected for promotion to Major General. They are: **BG (P) Charles E. Teeter**, Director, Officer Personnel Management Directorate, U.S. Army Military Personnel Center; **BG (P) Claude T. Ivey**, Chief, Office of the Defense Representative, Pakistan; **BG (P) Bruce R. Harris**, Commanding General, U.S. Army Communications Systems Agency/Project Manager, Defense Communications Systems (Army) and Deputy Commanding General, U.S. Army Information Systems Command; **BG (P) Edwin M. Aguanon**, Assistant Deputy Under Secretary of Defense (Tactical Warfare Programs), Office of the Secretary of Defense; and **BG (P) Ellis D. Parker**, Deputy Commanding General/Assistant Commandant, U.S. Army Aviation Center and Fort Rucker.

Joint Force Development

I'd like to update you on a recent **Memorandum of Agreement (MOA)** on the Joint Force Development Process between the Chief of Staff, Army, and Chief of Staff, Air Force.

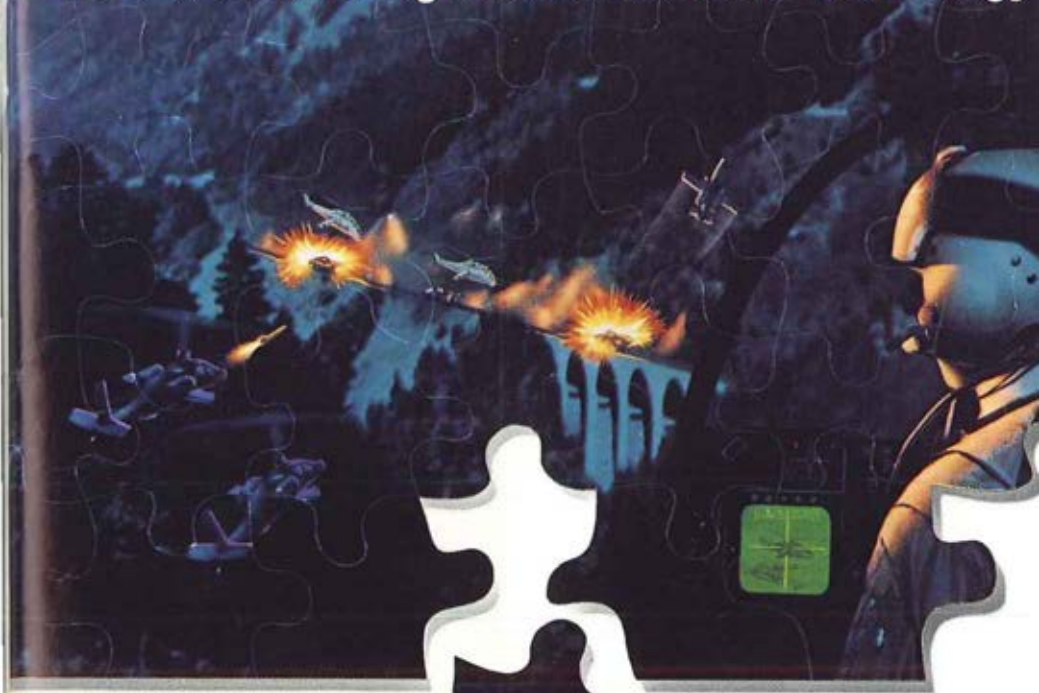
On 22 May 1984, an MOA was signed between **General Wickham**, USA, and **General Gabriel**, USAF. The MOA affirmed that to insure national security objectives are met, both services must work in unison to organize, train, and equip a compatible, complementary and affordable Total Force that minimizes redundancy in the expenditure of resources. Army Aviation, being a new branch and member of the combined arms team, plays a major role in this agreement. You'll hear more about the MOA in this magazine as both services work out joint positions on the initial thirty-one initiatives. ■■■■

NEXT MONTH

The October issue of **Army Aviation Magazine** will be our first annual "Blue Book" — a special almanac issue devoted to the worldwide organizational structure within the U.S. Army Aviation Branch.

LHX

The Integration of Man and Technology



MCAIR...a perfect fit for the team.

Newest member of the Hughes Helicopters LHX team is McDonnell Aircraft Company (MCAIR), the world's leading producer of combat aircraft.

MCAIR operates the largest and most advanced manned air combat simulator in the world. The company has long been known for its high quality composite air-frame structures and for its highly integrated crew stations, including the single pilot cockpits for the F-15, F-18 and AV-8B.

One of the early challenges of the LHX program is to demonstrate the feasibility of single pilot operation. With its crew station design experience and advanced simulation facilities, MCAIR will contribute vitally to the evaluation of LHX cockpit design and systems architecture.

The Hughes Helicopters, Inc. Team which includes Honeywell and Hughes Aircraft Company, welcomes MCAIR as a valued new member.



Hughes Helicopters, Inc.

Culver City, California 90230

A Subsidiary of McDonnell Douglas

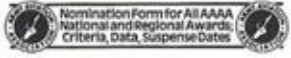
The Nominations Are Open

Be a participant in the selection of the "Aviator of the Year" and the "Aviation Soldier of the Year." Write to the AAAA National Office and request nomination forms to put your nominees into the hopper for national recognition at the forthcoming AAAA Convention.

Many deserving people are never cited because they are never nominated.

AAAA's "Outstanding Aviation Unit Award", along with its "Outstanding Reserve Component Aviation Unit Award", recognize the finest unit performances during the 1984 calendar year. How does your unit measure up?

The "James H. McClellan Aviation Safety Award" and the "Outstanding DAC Award" single out unique people. Tell us about them. The nominations close January 15.



"OUTSTANDING AVIATION UNIT AWARD"
(For Reserve Awards - Active U.S. Army and Reserve Components)

Recommendation by the Army is required for nomination. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention.

Submit to the AAAA National Office, 1 Crestwood Road, Westport, CT 06880, by January 15, 1985.

NAME OF UNIT _____
 ADDRESS _____
 PHONE _____

"AVIATION SOLDIER OF THE YEAR AWARD"
(For Reserve Awards - Active U.S. Army and Reserve Components)

Recommendation by the Army is required for nomination. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention.

Submit to the AAAA National Office, 1 Crestwood Road, Westport, CT 06880, by January 15, 1985.

NAME OF AWARD _____
 ADDRESS _____
 PHONE _____

"JAMES H. MCCLELLAN AVIATION SAFETY AWARD"
(For Reserve Awards - Active U.S. Army and Reserve Components)

Recommendation by the Army is required for nomination. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention. The award will be presented to the nominee and unit at the AAAA Convention.

Submit to the AAAA National Office, 1 Crestwood Road, Westport, CT 06880, by January 15, 1985.

NAME OF AWARD _____
 ADDRESS _____
 PHONE _____

Please join in!

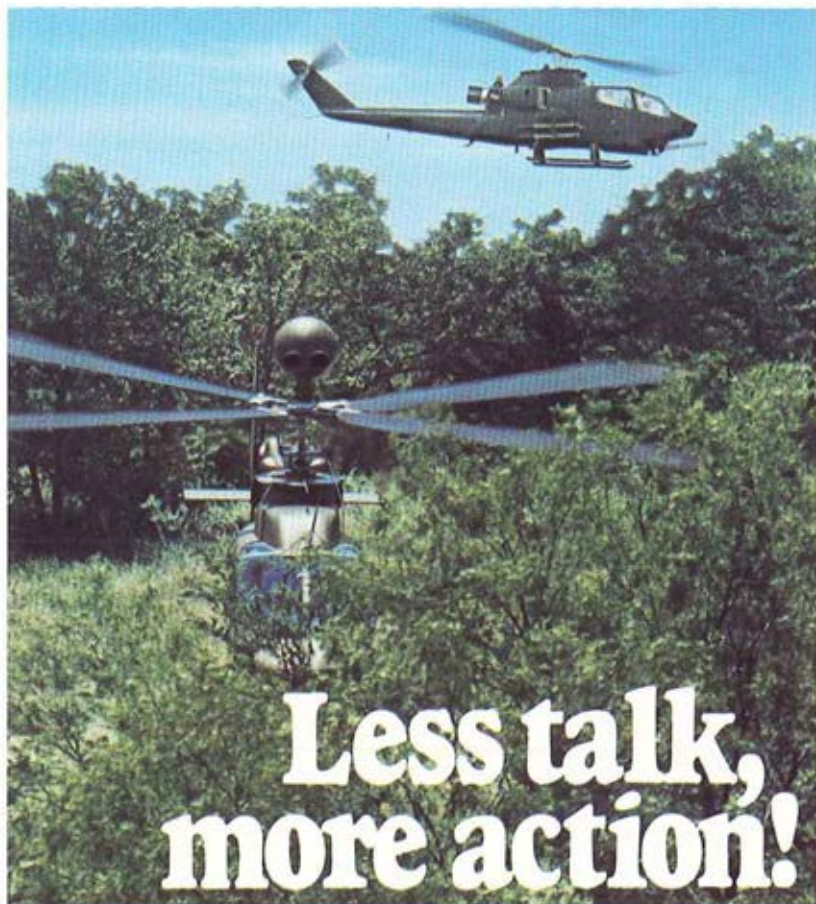
1985 AAAA National Awards

Submit your nominations to AAAA, 1 Crestwood Road, Westport CT 06880 by Jan. 15

Special Report



The Army Helicopter Improvement Program



■ In the time it takes to say, "target acquisition and hand-off", it happens! The AH-1P/OH-58D Aeroscout's laser range-finder designator points out a target, locks on target and cues the Bell AH-1S Cobra. The gunship's airborne laser tracker acquires the target by

receiving laser coded energy, and the TOW sight is automatically slewed to it! The OH-58D Aeroscout's sophisticated systems reduce crew workload and allow them to keep hands on the controls and eyes open for new targets. The Aeroscout/

Cobra Team: low-risk, low-cost proven!

For more information write Ray Swindell Director, US Government Marketing, Bell Helicopter Textron Inc. Dept 680, Box 482, Ft. Worth, Texas 76101.

Bell Helicopter TEXTRON
A Subsidiary of Textron Inc.



OH-58D: NOW AND TOMMORROW

BY COLONEL WILLIAM H. FORSTER

It has been only a short twelve months since the first of five OH-58D prototypes took to the air on 1 September 1983. Since that time, the remaining four aircraft were completed and have been utilized for various contractor and governmental test programs.

In November, 1983, aircraft number 3 was flown ahead of schedule to Yuma Proving Grounds, AZ, where it was used to conduct contractor surveys and demonstrations of the TV, **Thermal Imaging System (TIS)**, laser, navigation, and **Mast Mounted Sight (MMS)** performance and functions. The aircraft accumulated over 260 flight test hours prior to returning to the prime contractor Bell Helicopter Textron (BHT) at Fort Worth, TX, in June of this year. Aircraft numbers 1, 2, 4 and 5 remained at the contractor's facility to conduct structural and electrical demonstrations, avionics and electro-magnetic compatibility tests, and various other surveys, tests, and demonstrations to substantiate contract compliance.

A busy summer

By early July, factory training by Bell for Army pilots, observers, and maintenance personnel for government testing had been completed and the five prototypes had accumulated over 935 flight hours and 153 ground-run hours. The success of the contractor testing and the training of the Army personnel was a pre-requisite to transferring the aircraft in July and August to the Army for testing.

Extensive government testing includes:

ABOUT THE AUTHOR

COLONEL FORSTER CURRENTLY SERVES AS THE AHP PROJECT MANAGER AT THE U.S. ARMY AVIATION SYSTEMS COMMAND (AVSCOM) IN ST. LOUIS, MO.

Development Testing II at Yuma Proving Grounds which was conducted by the Aviation Development Test Activity during July and August; the Airworthiness and Flight Characteristics evaluation by the Army Experimental Flight Activity which began in August; and Operational Testing which will be conducted at Fort Hunter-Liggett, CA, from September, 1984, through January, 1985.

Extensive modifications

To overcome the performance and handling deficiencies of the current OH-58A and C, the OH-58D modifications include: the 650 SHP Allison T703-AD-700 engine with an electronic fuel control; an upgraded transmission; a four-bladed composite rotor system with a composite hub; a larger composite tail rotor and tail rotor gear box; and a **Stability Control Augmentation System (SCAS)** with Heading Hold. These features will give the OH-58D a true nap-of-the-earth flight capability at an altitude of 4,000 feet at 95°F outside temperature at primary mission gross weight. The much larger tail rotor capacity (110 SHP continuous, 220 SHP transient), and SCAS with Heading Hold, has been demonstrated. This will provide substantially improved low speed directional control and out of ground effect hover capability with 35 knot winds from any quadrant. From Central Europe to the deserts of the Middle East, the OH-58D will have the power and agility to perform its vital role at mission gross weights.

Mast Mounted Sight

The **Mast Mounted Sight (MMS)**, which was developed by the McDonnell Douglas Astronautics Corporation as a subcontractor to Bell, is



ABOVE: An OH-58D AHIP scout helicopter prototype in nap-of-the-earth flight. OPPOSITE PAGE: An OH-58D masking behind trees exposes only the 26" diameter of it's Mast Mounted Sight.

stabilized above the rotor system and includes TV, Thermal Imaging System, and a laser range finder and target designator. These sensors are attached to a sensor support structure which is stabilized so effectively that both TV and Infrared images presented in the cockpit are free of aircraft induced vibration and pitch and yaw movement.

The MMS is controlled from the cockpit and has freedom of movement to permit the observer to look 190° left or right and 30° up or down. In addition, the MMS has features which allow for automatic scene or target tracking and the ability to "frame freeze" a picture when in the Thermal Imaging mode. The laser is used to provide accurate ranging and target designation and can also be used to "off-set" update the aircraft's navigation system through the mission computers.

Once a target is identified for destruction, the laser can place a laser spot on the target for laser guided antitank missiles, artillery, and Air Force munitions. The MMS gives the OH-58D aeroscout the ability to acquire and designate targets at extended ranges in day or night, and adverse weather, and to search, acquire, and designate while the aeroscout is hiding (masking) behind terrain features exposing only the 26 inch diameter MMS. The increase in survivability provided by the stand-off ranges of the sensors and this reduced exposure to visual, in-

frared, and radar detection systems is significant. The MMS components are adaptations of existing production and developmental systems, allowing primary emphasis to be placed on packaging and integration.

Controls and display system

Key to the operation of the MMS and the onboard mission equipment is the **Controls and Display System (CDS)**, which is provided by Sperry Flight Systems. The CDS has been designed and arranged to satisfy the overall operational suitability requirements considering cockpit size, crew coordination, external visibility, and information presentation priorities. The CDS design also uses current technology that is flexible and simple to operate and which reduces crew workload through efficient interfaces.

The displays available for selection on either the pilot's or observer's multifunction display include the MMS Video (TV or Infrared), horizontal display (flight plan), vertical situation (to include all flight related attitude data and hover symbology), communications status, Airborne Target Handoff System, and numerous built-in-test and maintenance related displays.

An excellent example of the effectiveness of the integration of mission equipment with the onboard computers and the display system is the ability of the pilot to operate any of five different radios (VHF, UHF, HF, and both FMs) on any preselected frequency without removing his hands from the flight controls. This and numerous other crew workload reduction



features greatly enhance operational effectiveness and safety, especially in the critical flight profiles generated by nap-of-the-earth and night vision goggle flight.

Test status

Test results have been most encouraging and indicate we are on the right track to give the scout pilot an aircraft which is not only very agile but which also has the power reserve necessary to perform its mission at full mission gross weight in a "hot day" environment.

When the performance of the aircraft and mission equipment, based on contractor testing, is stacked up against the Army's **required operational characteristics (ROC)**, we can see that system performance is meeting, and in most cases exceeding, the user's requirements:

OH-58D	ROC	Actual
Endurance at Primary Mission Configuration	1.9 hrs.	2.5 hrs.
Vertical Rate of Climb (4,000'/95°F)	HOGUE	350 to 550 fpm
Forward Flight Speed (4,000'/95°F)	100 kts.	119 kts.
Rearward, Sideward Fit Speed at PMC	± 35 kts.	± 35 kts.
Max G Loading	N/A	2.56
MAST MOUNTED SIGHT	ROC	Actual
TV Detection	100%	132%
TV Recognition	100%	130%
TIS Detection	100%	122%

TIS Recognition	100%	151%
TV Laser Designation	100%	100%
TIS Laser Designation	100%	100%
NAV Accuracy	100%	125%
Target Location	100%	100%

NOTE: Data presented in % due to classification

Equally encouraging is system reliability which continues to exceed contractor and government growth predictions. These performance parameters of the OH-58D, along with many others, are now being evaluated by the Army Development Test Activity, the Army Engineering Flight Activity, and the Operational Test and Evaluation Agency.

Moving into production

The production contract for low rate initial production of 16 aircraft is now being negotiated, with the first production aircraft delivery scheduled for November, 1985. The second production contract award (44 aircraft) is scheduled for July, 1985. Being ready for initial production this year, and for fielding in 1986, will demand continued dedication and effort by the entire AHIP team. The payoff will be the successful fielding of the Army's first true aeroscout.

The OH-58D will be that aeroscout — a day/night, adverse weather system assigned to attack helicopter, air cavalry, and artillery support aviation units and serving as the "eyes and ears" of the Combined Arms Team.

It will provide the capability to find and maintain contact with the enemy, avoid surprise, and coordinate the effective fires that are essential to success on the modern battlefield. IIII

HOW THE HIDE-WHILE-YOU-SEEK SIGHTING SYSTEM TAKES THE SHAKES OUT OF BATTLEFIELD TARGETING.

While the helicopter hovers below tree and ridge lines, only the steerable, ball-shaped Mast-Mounted Sight is exposed to hostile eyes. The crew sees without being seen.

The crew also has a sharp, more jitter-free view of targets because the sensor mounts float in a magnetic field, virtually free of vibration. The result is crisp, unblurred images on the cockpit interactive displays. The mast-mounted sensors include telescopic TV for day sighting and infrared thermal imaging for missions previously limited by night, weather or battlefield smoke and haze conditions.

The McDonnell Douglas Mast-Mounted Sight is now being flown on Bell Helicopter Kiowa Aeroscouts under a fixed price development contract.

The Mast-Mounted Sight is the result of ten years of stabilized platform research. It has passed more than 300 hours of Army laboratory testing and 100 hours of development flight testing at the Army's Yuma proving ground.

Today's weapons are built to strike with great accuracy—if you can find the target! The technology is here to make possible clear, jitter-free sighting aboard helicopters and mobile land vehicles—wherever sensors are required in high-vibration environments.



MCDONNELL DOUGLAS





A PILOT'S PERSPECTIVE

BY MAJOR RALPH M. BUIE

AS any true baseball purist would tell you, the ideal relief pitcher would be one who throws a fastball at infinite velocity, has an E.R.A. which is a negative number, and a rotator cuff composed of astroturf. So it is, I suppose, with the true scout pilot's vision of the ultimate U.S. Army scouting machine. Of course, the ideal craft would have total maneuvering freedom, be possessed of a limitlessly-powered engine, and contain mission systems capable of enemy detection, location, and neutralization without the slightest increase in crew workload.

Tomorrow's scout

Such aircraft are not, to say the least, present in current U.S. Army helicopter inventories. However, one scout helicopter possesses the potential to greatly multiply the effectiveness and efficiency of today's scout crews who are called upon to perform one of the most complex and demanding tasks on the battlefield. Now in operational testing at Hunter-Liggett, CA, after completing extensive government development testing by the U.S. Army Aviation Development Test Activity at Yuma Proving Ground, AZ, the revolutionary OH-58D scout helicopter is a much-needed vehicle that can truly perform the difficult scout mission.

Built from a modified OH-58A airframe, the OH-58D model has little in common with its predecessors but a slight silhouette likeness to previous OH-58A and C model versions. A redesigned cowl, a quantum 50% increase in

maximum gross weight (4,500 lbs.), and a completely new 4-blade, soft-in-plane rigid rotor system, combined with a strong, two-eyed "E.T." mounted above the rotor system (actually a gyro-stabilized Mast Mounted Sight System) are all clearly distinctive characteristics which readily identify the OH-58D helicopter.

From the initial test flight, it became clear that this helicopter is truly different from past scout generations. Control response is immediate and predictable. The engine responds quickly to power demands through a unique digital fuel control system. A strong and startling first impression is made by the smoothness of the rotor system and the noticeable lack of a translational flight, 4-per-revolution vibration. **Nap-of-the-earth (NOE)** flight is accomplished with little pilot effort as the aircraft rolls, yaws, and pitches effortlessly and naturally at low airspeed and altitude. A new heading-hold feature reduces pilot workload during NOE masking and unmasking maneuvers.

A whole new world

However, nothing quite prepares the old, crusty, and true-blue scout pilot for the high technology awaiting him in the OH-58D's cockpit **control and display system (CDS)**. No round gauges for this 1984 generation scout aircraft! Vertically displayed engine and transmission instruments with digital readouts, **multi-function displays (MFD)** for both pilot and copilot/observer, and mission equipment control panels make it readily apparent that computer technology has invaded the scout pilot's world. The MFDs provide **vertical situation displays (VSD)**, **horizontal situation displays (HSD)**, (Pilot's Perspective — Continued Page 49)

ABOUT THE AUTHOR

MAJOR BUIE, DEPUTY TEST DIRECTOR FOR AHIP DT II, IS CHIEF, SYSTEM TEST DIV, U.S. ARMY AVIATION DEVELOPMENT TEST ACTIVITY, FT. RUCKER, AL.

Advancing RPV Technology

How to fly through

Tanks

Aquila reports their movements with real-time television pictures.

Ammo dumps

Aquila pinpoints the target and assesses damage.

Artillery

Aquila spots it and relays its position.



Wherever you'll find targets like these, you'll also find intense anti-aircraft fire.

To locate the enemy, you could risk an expensive high-performance aircraft and its irreplaceable crew. Or you could send a small Army/Lockheed Aquila RPV to do the same job—at a fraction of the cost.

The affordable Aquila will give battle commanders better control of the battle. Interfacing with TACFIRE, it directs volleys

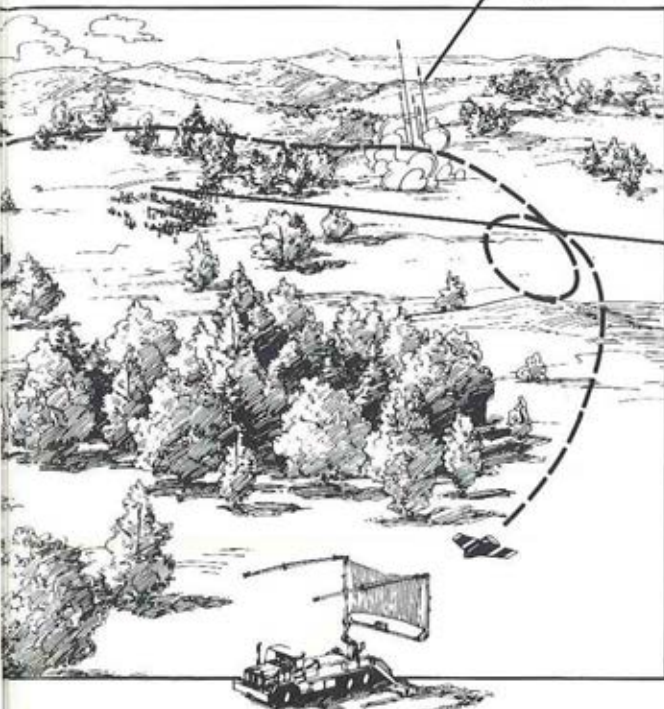
with first-round accuracy. Its laser designator lights the way for laser-guided munitions. And it also will be able to serve as a radio relay for communications, a communications jammer, an ELINT collector, and a meteorological sensor. FLIR gives Aquila eyes to watch the enemy through the darkest night. And after each sortie it will return to its retrieval net, ready to be prepared for another mission.

While sending back real-time television

hell and back.

Rockets

*Aquila finds them
without becoming their victim.*



Troops

*Aquila locates them
while evading their fire.*

pictures and other information from hostile territory, Aquila will loiter, jink, and beeline at 110 mph, staying airborne for up to three hours. Its radar profile is but a speck, and its 13-foot wingspan makes it an almost impossible target for enemy gunners. Even infrared-seeking weapons are thrown off by Aquila's

cool performance under fire. It has demonstrated its survivability against a deadly mix of weapons.



However hellish the battle zone, Aquila is the reconnaissance/target-acquisition vehicle that can look down the enemy's throat—and return to fly another day.

 **Lockheed Aquila**
Leadership in Technology

Looking on the Dark Side



First the bright side of our story: Canadian Marconi Opto Electronic Vertical Scale Engine Instruments are standard on all Black Hawk, Seahawk, Nighthawk, Apache and AHIP helicopters.

The dark side is also a success story: for AHIP, CMC has developed filtered incandescent displays that are fully

compatible with night vision goggles and still retain color differentiation.

If your helicopter has to go out in the dark, talk to CMC. We'll help you see the light.

Canadian Marconi Opto Electronic Vertical Scale Engine Instruments

...Confidence at a Glance



CMC

Canadian Marconi Company
Avionics Division

2442 Trenton Avenue
Montreal, Quebec
Canada H3P 1Y9
Tel: (514) 341-7630
Telex: 05-827822



Hughes Helicopters, Inc.

KAMAN

NORTHROP

MILITARY AIRCRAFT SERVICES, INC.

Parker



DASI



BOEING
HELICOPTERS

MIDLAND ROSS
Grimes Division

Itek

AGUSTA



VOUGHT
CORPORATION



EMERSON



GRUMMAN



UNITED
TECHNOLOGIES

de Havilland

THE
1984
AAAA

INDUSTRY
TEAM



GENERAL
DYNAMICS

SINGER



Science Applications, Inc.



MCDONNELL
DOUGLAS



Rockwell
International
Missile Systems Division

MARCONI
AVIONICS



Detroit Diesel
Allison



TELEDYNE
SYSTEMS COMPANY

Chandler Evans
Control Systems Division

Cell Industries



OLYMPUS
Olympus Corporation of America, Inc.



**HELICOPTER
WORLD**



AIRCRAFT GEAR
COMMUNICATIONS

THE AAAA INDUSTRY TEAM

Abercrombie, H. — Basti, E.M. 3	Lepore, C.J. — Massengill, L.A. . . . 14
Batch, R.G. — Braue, G.C. 4	Massie, P.E. — Morrow, H.L. . . . 15
Bredenberg, T. — Carter, E.S. 5	Mosher, H.F. — Owen, W.M. 16
Carver, O. — Coughenour, W. 6	Ozenick, P.M. — Rajala, E.A. 17
Cout'm's, G. — Domanovsky, P. . . 7	Ramsey, H.J. — Saboe, M.S. 18
Donahue, T. — Fleury, P.A. 8	Salhani, M. — Smith, F.L. 19
Flowers, J. — Graf, W. 9	Smith, G.R. — Swindell, B.R. 20
Grafton, D.A. — Hesson, J.M. 10	Taggart, L.J. — Ward, R.R. 21
Hickok, R.C. — Jefferson, R.F. . . . 11	Waters, J.E. — Wosicki, W.J. 22
Jensen, D. — Kissinger, R.A. 12	Wright, P.E. — Zink, R.C. 23
Klein, D. — Leone, N. 13	Late Listings. 23

INDUSTRY MEMBER CODE

Last Name, First Name, M.I.
(First Membership Year)

Residence Address

City, State, and ZIP Code

Business and Home Phones

Name of Spouse and Children

Date of Birth (Excluding Year)

Nickname

PROFESSIONAL DATA:

Company Job Title

Name of Member Firm

City/State of Member Firm

Colleges Attended

Degrees Held

Previous Military Service

Year of Retirement

Years of Active Military Service

Retirement Rank/Grade Held

Professional Organizations

Honors/Awards Received

IOCS

Tracor
Aerospace

SAAB-SCANIA



GE SOLAR
TURBINES
INCORPORATED

THE INDUSTRY TEAM

PUBLISHED ANNUALLY BY ARMY AVIATION, 1 CRESTWOOD ROAD, WESTPORT, CT

AAAAAAAAAAAAAAAA

ABERCROMBIE, Henry S., (MR) (M84) LITTON AMECOM, MS 8-5, 5115 Calvert Road, College Park, MD 20740. Dy: (301) 864-5800. Job: Mgr EW, Adv Prog. Educ: No GA Col: GWU, BS. Svc: USA. 2 yrs. AHS, AUSA, AFA.

ADZIGIAN, David J., (MR) (M84) Rediffusion Simulation, 1701 Covermeadow Drive, Arlington, TX 76012. Dy: (817) 469-8411. Res: (817) 277-2614. W: Linda. Ch: Mark, Lynn, Scott. B: May 29. Job: VP Gov't Sales. Educ: Tufts, BA. Svc: USN. Ret: 67. 6 yrs. AUSA.

AHN, Hong Joon, (MR) (M84) Dong-Yeung Mool-San Co, 13 dong 1405 Jangmi, Apt. 7, Shin cheun-Dong, Gang dong Ku Seoul, Korea.

AINSLIE, William M., (MR) (M84) Ferranti PLC, St Andrews Wks Robertson, Ave, Edinburgh UK EH11 1PX. Dy: (031) 337-2442. Job: Prod Group Mgr. Educ: Heriot-Watt U, BS.

ALDRED, E. D., (MR) (M84) Magnavox Govt & Ind Elect, 1313 Production Road, Fort Wayne, IN 46808. Dy: (219) 429-6395. Job: Dir of Engrg (Telecomm) EW, Electronics Sys. AUSA.

ALEX, Ralph P., (MR) (M67) 1037 Stratfield Road, Fairfield, CT 06432. Dy: (203) 333-1166. Res: (203) 366-0424. Job: Pres, Ralph P. Alex & Assoc, Inc. HCA, AHS, AUSA, AFA. 37 Yrs-Sikorsky-77.

ALLWARDEN, Joseph C., (MR) (M82) (Joe) Kollman Instrument Co, Daniel Webster Highway 50, Merrimack, NH 03054. Dy: (603) 886-2264. Res: (603) 733-2951. W: Gloria. B: Jan 30. Job: VP Mktg. Educ: Manhattan, EE. Svc: USMC. 3 yrs. HCA, AHS, AUSA.

ALVARE, Lou J., (MR) (M84) (Lou) American Electronic Labs, P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. W: Rosemary. B: May 6. Job: Dir, Aero Div. Educ: Villanova, BSME Temple.

AMLING, Kathryn, (MS) (M82) Rockwell International, 400 Collins Road NE, Cedar Rapids, IA 52498. Dy: (319) 395-5490. Job: Mgr, Mktg Admin, Gov't Avionics. Educ: Coe Coll, BA.

ANDERSON, Ross, (MR) (M84) Rediffusion Simulation, 68 Winchester Drive, Eufaula, TX 76039. Dy: (817) 469-8411. Res: (817) 571-9811. B: Sep 26. Job: Dir Gov't Sales. Educ: USMA, BS. Svc: USA. 8 yrs.

ANKERBRANDT, Samuel D., (MR) (M83) (Sam) LITTON AMECOM, 5115 Calvert Road, College Park, MD 20740. Dy: (301) 454-9495. Res: (703) 281-1257. W: Karen.

Ch: Kristen. B: Feb 11. Job: Mgr, Planning & Admin. Educ: Rutgers, BA; Johns Hopkins, MS. Svc: USA. 2 yrs.

ANTO, Aavo H., (MR) (M77) (Aavo) Avco Lymington Division, 550 South Main Street, Stratford, CT 06497. Dy: (203) 385-2784. Job: ATDE Proj Mgr.

ARNOLD, Robert, (MR) (M82) (Bob) Honeywell Inc., 7900 Westpark Drive, Ms410, McLean, VA 22102. Dy: (703) 827-3761. Res: (703) 430-3408. W: Joanne. Ch: Kimberly, Matthew. B: Aug 18. Job: Mgr, Army Mktg, Wash Area. Educ: MacAlester, BA; Minn, MBA. Svc: USA. 6 yrs.

ATKINSON, Dale B., (MR) (M83) (Dale) NAVAIRSYSCOM, GM-15, ATTN Air-5164 J, Washington, DC 20361. Dy: (202) 692-2120. Res: (703) 451-3011. B: Jul 23. Job: Branch Head, Cdt Survivability Br. Educ: U of KS, BSAE; GWU, MSA; ICAF.

AUGUSTINE, Norman R., (MR) (M76) (Norm) Martin Marietta Denver, P.O. Box 179, MP 1000, Denver, CO 80201. Dy: (303) 977-4488. W: Margaret. Ch: Gregory, Rene. B: Jul 27. Job: Pres, Martin Marietta Denver Aerosp. Educ: Princeton, BSE MSE

AXELBAND, Elliot L., (DFL) (M84) Hughes Aircraft, Bldg E-1, PO Box 902, MS B160, El Segundo, CA 90245. Dy: (310) 616-3069. Job: Assoc Div Mgr. Educ: UCLA, PhD; USC, MSEE; Cooper U, BEE.

BBBBBBBBBBBBBBBB

BAENA, George, (MR) (M77) (George) Aircraft Gear Corporation, 6633 W. 65th Street, Chicago, IL 60638. Dy: (312) 594-2100. Res: (312) 246-9315. W: Sharon. Ch: Derrick, Tyler. B: Nov 8. Job: VP Mktg. Educ: U of NE, BS. Svc: USA, USMC. Ret: 77. 20 yrs. HCA, AHS, AUSA.

BAER, James T., (MR) (M83) (Jim) ARINC Research Corp., P.O. Box 116, North Beach, MD 20714. Dy: (301) 858-4698. Res: (301) 855-4088. W: Gail. Ch: Michael, Jennie. B: Dec 8. Job: Sr Engrg Rep. Educ: U of Louisville, BS. Svc: USA. Ret: 82. 23 yrs. AHS, AUSA.

BAER, R. J., (LTG) (M84) XMC, Inc., 8200 Greensboro Dr., 801, McLean, VA 22102. Dy: (703) 556-9400. Job: Sr VP Educ: USMA, BS. Svc: USA. Ret: 80. 33 yrs.

BALUT, Ramon R., (MR) (M79) (Ray) Royal Corporation, Ridge Hill, Yonkers, NY 10710. Dy: (914) 964-2567. Res: (203) 746-1061. W: Barbara. Ch: Ramon; Raeanne. B: Dec 30. Job: Director of Programs, Laird Electronic Systems. Educ: Kings College, BA; Univ of Alaska, MBA. Svc: USAF. Ret: 79. 22 yrs. AFA.

BANNISTER, Dan R., (MR) (M66) (Dan)

Dynalectron Corp, 1313 Dolley Madison Blvd., McLean, VA 22101. Dy: (703) 356-0480. Res: (703) 759-5261. W: Paula. Ch: Michael, Linda, Vickie. B: Jun 29. Job: Exec VP Educ. U of AZ; Harvard; Catholic U. Svc: USAF. 4 yrs. AUSA, AFA.

BANNOCK, Russell, (MR) (M58) (Russ) Bannock Aerospace Ltd, 188 University Ave, #505, Toronto, Ont, Canada M5H3C3. Dy: (416) 585-2590. Res: (416) 483-4830. W: Norah. Ch: Paul, Anne, Michael, John. B: Jan 11. Job: Pres, Bannock Aerosp, Ltd. Educ: Royal AF Staff College, PSC. Ret: 45. 6 yrs.

BARBAZETTE, William F., (MR) (M84) (Bill) IBM-Federal Systems Div, 1755 Jeff Davis Hwy, 600, Arlington, VA 22202. Dy: (202) 833-6923. Educ: USNA, BS. Svc: USN. 10 yrs. AHS, AUSA, AFA.

BARKER, Alan, (MR) (M83) Canadian Marconi, 2442 Trenton Avenue, Montreal Canada H39149. Job: Mgr Integrated Logistics Support.

BARNA, George, (MR) (M83) Singer Company, Link Div., Colesville Road., Binghamton, NY 13902. Dy: (607) 772-4111. Res: (607) 797-5346. W: Constance. Ch: George, Maureen, Neil, Terrence. B: Dec 26. Job: VP Govt Sim Sys. Educ: Worcester Poly inst, BSEE; Hofstra, MA. Svc: USMC. Ret: 56. 2 yrs.

BARNETT, John B., Jr, (MR) (M84) P.O. Box 8023, El Paso, TX 79908.

BARRETT, Chuck, (MR) (M82) P.O. Box 373, Fort Campbell, KY 42223. Dy: (502) 439-1824. Job: Logistics Mgmt, Boeing Vertol. Educ: U of ME, BA. Svc: USA. 2 yrs.

BARRETT, Ronald P., (MR) (M81) (Ron) King Radio Corporation, 400 North Rogers Road, Olathe, KS 66062. Dy: (913) 782-0400. W: Joyanne. Ch: Ronald; Nicholas. B: Feb. Job: Mgr Mil Rqmts. Educ: USAFA; Miami U, BS. Svc: USAF. 13 yrs. AHS, AUSA, AFA.

BARTH, William L., (MR) (M82) 721 Venice Way, Inglewood, CA 90302. W: Irene.

BASNEY, Ronald A., (MR) (M65) (Bas) 110 Pine Knob Terrace, Milford, CT 06460. Dy: (203) 386-4433. Res: (203) 874-7647. W: Dolores. Ch: Andrea, Ronald. B: Jan 27. Job: ESSS & HIRSS Deputy Mgr, Admin Asst, Blackhawk, Sikorsky Acft. Svc: USA, USAF. 7 yrs.

BASS, Saul D., (MR) (M81) Teledyne Systems Company, 19601 Nordhoff St., Northridge, CA 91324. Dy: (818) 866-2211. Res: (818) 863-3553. W: Grace. Ch: Ronald, Jeffrey, Susan. B: Oct 25. Job: VP, Dir Prog. Svc: USN. 2 yrs. AHS, AUSA.

BASTL, Elaine M., (MS) (M84) 5142

The 1984 Industry Team

Auricles Lane, Hazelwood, MO 63042. Dy: (314) 868-8000. Res: (314) 739-4671. B: Sep 15. Job: Dir of Cooperative Adv. Suburban Newspapers. Educ: SIU, MS.

BATCH, R. G., (MR) (M84) Dehavilland Aircraft Ltd, Garratt Blvd., Downsview Ont M3K 1Y5 Can. Dy: (416) 633-7310. B: Mar 29. Job: Dir Dev Eng. Educ: U of Toronto, Base. Svc: USA, USAF, USN, USMC, USCG. AUSA.

BAUCHSPIES, James S., (LTC) (M59) (Jim) 3605 Maroon Lane, Bowie, MD 20715. Dy: (301) 870-2201. Res: (301) 262-5996. W: Georgine. Ch: Todd. B: Aug 12. Job: Associate Div Dir, Or, Inc. Educ: USMA, BS; VPI, MSAE, GWU, JD. Svc: USA. Ret: 76. 20 yrs. AHS.

BAUMEISTER, Juergen K., (DR) (M84) Int'l Aerospace Tech, 7738 Governors Dr. West, Huntsville, AL 35806. Dy: (205) 837-0611. Job: Pres.

BAXTER, Edward O., (MR) (M84) (Neil) Loral Corp., 1911 Jeff Davis Hwy, Arlington, VA 22202. Dy: (703) 841-0770. Res: (301) 849-5792. W: Christina. Ch: Michael, Jane, Kathleen. B: Apr 27. Job: Dir, Wash Opn, Electro-Optical. Educ: U of MD, BS. Svc: USA, USAF, USN, USMC, USCG.

BAYER, A.W., (MR) (M57) (Al) Marina City Club, 4333 Admiralty Way, Marina Del Rey CA 90291. Dy: (213) 823-0078. Res: (213) 378-1728. W: Rita. Ch: Christopher, Kathleen. B: Jan 26. Job: Pres, A.W. Bayer & Assoc. Educ: Norwich, Conn. Ph.D. Svc: USA. Ret: 45.2 yrs. HCA, AHS, AUSA, AFA.

BEAL, Norbert R., (MR) (M84) (Norbi) Singer Inc., Colesville Road, Binghamton, NY 13902. Dy: (607) 722-3294. Res: (607) 648-3995. W: Mary Ann. B: Dec 16. Job: PM, Hcprl Simulators.

BEARDSLEY, James H., (MR) (M77) (Jim) Perkin-Elmer Corporation, 5 Apricot Lane, Ridgefield, CT 06877. Dy: (203) 797-6015. Res: (203) 431-6529. W: Eleanor. Ch: Jim, Tom, Ken, Dave, Judy, Priscilla. B: Jun 20. Job: Mgr, Adv Planning. Educ: GWU, BEE. Svc: USN. Ret: 46. 3 yrs. AUSA.

BEAVER, Paul, (MR) (M83) Defence Helicopter World, 46 London End, Beaconsfield HP9 2JH Eng. Dy: (049) 467-7062. Res: (442) 565-7374. W: Ann. B: Apr 3. Job: Editor. Educ: Sheffield City Polytechnic.

BECHER, Frank G., (MR) (M82) Olympus Corporation, 4 Nevada Drive, Lake Success, NY 11042. Dy: (516) 488-3880. W: Kathryn. Ch: Michael, James, David, Patrick, Richard. B: May 15. Job: VP, IFD. Educ: St John's U, BS; St Michael Coll. Svc: USA. 2 yrs.

BECK, David J., (MR) (M82) (Dave) Westinghouse Elec. Corp., P.O. Box 1693, MS 1112, Baltimore, MD 21203. Dy: (301) 765-3931. B: Oct 7. Job: Business Dev. Mgr., Systems Dev Div, Westinghouse Elect Corp. Educ: BSME MBA.

BEETHAM, John A., (MR) (M83) Allison Gas Turbine, PO Box 420, P44, Indianapolis, IN 46206. Dy: (317) 242-4638. Res: (317) 293-6290. W: Shirley. Ch: Teri, Jami-

son, Jon, Julane. B: May 21. Job: Dir, Prod Spt. Educ: St Louis U, BS. Svc: USAF. 1L.

BELL, Angus M., (MR) (M70) (Angus) Canadian Marconi Company, 415 Leggett Dr, POB 13330, Kanata Ont K2K 2B2 Canada. Dy: (613) 592-6500. Res: (613) 692-2032. Job: Mgr Mkt Dev. Educ: Glasgow, BSC. Ret: 69. 16 yrs. AUSA, AFA.

BELL, Paul E., (COL) (M83) 5350 Argyle Way, Riverside, CA 92506. Dy: (714) 632-0592. Res: (714) 682-9289. W: Helen. Ch: Celine, Sharon, Christine, Paul. B: Sep 14. Job: PM, Rockwell-Automatics Strategic Sys Div. Educ: U of NE, BS; GWU, MS. Svc: USAF. Ret: 76. 33 yrs. AHS, AUSA, AFA.

BELLARD, Americo, (MR) (M74) (Max) 64 Andrew Lane, Orange, CT 06477. Dy: (203) 799-2343. Res: (203) 795-4297. W: Lydia. Ch: Robert, Gary, David. B: Nov 2. Job: Tech Consultant, Daniels Mfg. Appl Engr, A.M. Bellard. Educ: U of New Haven, ME. Svc: USA. 4 yrs. AHS, AFA.

BELLIVEAU, Paul E., (MR) (M80) Sanders Associates, Inc., P.O. Box 948, Eaton-ton, NJ 07724. Dy: (201) 542-4558. Res: (201) 493-8516. B: Oct 22. Job: Mgr, Mon-mouth Off. Educ: NE U, ASEE BBA. Svc: USAF. 4 yrs. AUSA.

BENDORF, Harry, (BG) (M81) (Harry) Boeing Vertol Company, 1700 North Moore Street, Rosslyn, VA 22209. Dy: (703) 558-9821. Job: Dir, Wash Ofc. Educ: BA MA. Svc: USAF. 30 yrs.

BERKMAN, Sol, (MR) (M84) 106 Knoll Terace, West Caldwell, NJ 07006. Dy: (201) 544-8333. Res: (201) 575-8608. W: Pat. Ch: Bob, Budd, Don. B: Jun 25. Job: Proj Leader, Nav Sys, Semicor Inc. Educ: Polytech of Bklyn, BSEE; NJ Tech, MSEE. Svc: USN. Ret: 56. 4 yrs.

BETKA, Michael C., (MR) (M84) Talley Industries of Ariz, P.O. Box 849, Mesa, AZ 85201. Dy: (602) 898-2208. W: Lynn. Ch: Dan, Debbie. Job: Pres, Talley Del Sys Inc. Educ: AZ State, BS. Svc: USMC. 4 yrs.

BEVERAGE, Arthur W. Jr., (MR) (M66) (Art) Garrett Corporation, 4531 N. Lindberg Blvd., Bridgeton, MO 63044. Dy: (314) 391-5415. Res: (314) 394-4925. W: Mary. B: Oct 18. Job: Branch Mgr. Educ: U of ME, BS; AZ State.

BEVILACQUA, Louis A., (MR) (M81) (Lou) General Electric Company, 1000 Western Ave, MS 24004, Lynn, MA 01910. Dy: (617) 594-7617. Res: (617) 887-6489. W: Bobbie. B: Feb 5. Job: GM, 1700 Turbohaft Eng Proj. Educ: Cornell, BSME; NE U, MS.

BIRD, Thomas C., (MR) (M84) (T-Bird) Raisbeck-Western, 8500 Perimeter Road S, Seattle, WA 98108. Dy: (206) 763-2181. Res: (206) 883-6494. W: Dolores. Ch: Valerie, Thomas II, Marissa. B: Aug 10. Job: Gen Mgr. Educ: Heidelberg Coll, BA; GWU, MS; City U Seattle. Svc: USN. Ret: 82. 25 yrs.

BIRK, E. L., (MR) (M84) (Larry) XMCO, Inc., 8200 Greensboro Dr., 801, McLean, VA 22101. Dy: (703) 556-9400. Res: (703) 670-4618. W: Maggie. Ch: Lawrence, Linda, David. B: Oct 12. Job: VP. Educ: USMA, BS; GA Tech, MS. Svc: USA. Ret: 75. 26 yrs. AUSA.

BLAKE, David M., (MR) (M84) (Dave) 722 Paxton Hollow Rd, Broomall, PA 19008.

Dy: (215) 241-5485. Res: (215) 356-2520. W: Shirley. B: Dec 28. Job: Sr Rep, GE. Educ: U of RI, BSEE. Svc: USCG. Ret: 46. AHS.

BLOUNT, Walter Rex, (MR) (M79) Fort Rucker National Bank, P.O. Box 368, Fort Rucker, AL 36362. Dy: (205) 598-2401. Job: Senior VP.

BODEN, William H., (MR) (M84) Magnavox Govt & Ind Elect, 1313 Production Road, Fort Wayne, IN 46808. Dy: (219) 429-5801. Job: VP Asst to Pres. Educ: Purdue, BSEE BSNS Svc: USN. AUSA, AFA.

BONSWOR, Ralph E., (MR) (M82) (Ralph) Litton Aero Products, 6101 Concor Drive, Moorpark, CA 93021. Dy: (805) 378-2318. W: Marguerite. Ch: John, Stephen, Susan, Michael. B: Oct 22. Job: Mgr, Mil Mktg. Educ: U of FL; U of Riverside, Mil Sci. Svc: USA, USAF. Ret: 67. 25 yrs.

BOTWAY, Donal L., (MR) (M61) (Don) 8 Edgemar Hill Road, Westport, CT 06880. Dy: (203) 227-9613. Res: (203) 227-9613. Ch: Denise, Suzanne. B: Jun 30. Job: Pres, Donal Botway Assoc. Educ: MIT, BS. Svc: USAF. Ret: 46. 3 yrs. AUSA.

BOURKE, Andrew E., (MR) (M84) (Andy) Hughes Aircraft Co, A1, M/S 4A301-PO Box 9399, Long Beach, CA 90468. Dy: (213) 513-3306. Res: (213) 695-2726. Job: Mktg & Customer Rel. Educ: No AZ U, BS. Svc: USN, USMC.

BOX, Beal, (MR) (M79) LTV Aerospace & Defense, PO Box 225907, Dallas TX 75265. Dy: (214) 266-2695. Job: Dir-PR, Adv.

BRACE, Robert L., (CAPT) (M84) (Bob) 562 Carlone Dr, Rutherford, NJ 07070. Dy: (703) 874-4900. Res: (804) 448-2052. W: Jo. B: Oct 18. Job: Div Mgr, VSE Corp. Educ: Purdue, BSCE MSE. Svc: USN. Ret: 79. 34 yrs.

BRADLEY, Charles R., (MR) (M83) (Brad) Beech Aerosp Serv., Inc., 615 Stonewall Street, Jackson, MS 39213. Dy: (601) 362-0710. Res: (573) 001-0200. W: Celi. B: Dec 6. Job: Asst to VP/IGM. Svc: USA. Ret: 75. 31 yrs.

BRANCH, W. H., (MR) (M82) (Bill) McDonnell Douglas Astron., 5301 Bolina Avenue, Huntington Beach, CA 92647. Dy: (714) 896-4102. Res: (213) 454-2054. W: Nancy. Ch: Lynn, Lisa, William, Amy, Annmarie. B: Sep 28. Job: Dir Adv Sys Applications. Educ: U of Louisville, BS; NM State MS. Svc: USN. Ret: 70. 7 yrs.

BRANTLEY, Danon L., (MR) (M58) (Dan) Northrop Worldwide Aircraft, P.O. Box 108, Lawton, OK 73502. Dy: (405) 353-2733. Res: (405) 536-5496. B: Aug 2. Job: Dir Bus Dev. Educ: U of FL, BSBA. Ret: 78. 28 yrs.

BRASELTON, William M., (MR) (M84) (Bill) Harris Corporation, POB 94000, BL 101/2928, Melbourne, FL 32902. W: Sharon. Ch: William, Jeb. B: Jun 13. Job: VP Bus Dev, GASD. Educ: GA Inst of Tech, BSEE. Svc: USN. 3 yrs.

BRASSER, Ronald C., (MR) (M84) (No) Sweet's LFE, Fluid Controls Div., 100 Skiff St., Hamden CT 06514. Dy: (203) 281-8126. Job: VP Engrg. Educ: Polytechnic Inst. of Brooklyn, BSME.

BRAUE, George C., (MR) (M83) (Brow) 2031 Riva Ridge, San Antonio, TX 78248. Dy: (512) 492-1564. Res: (512) 492-1663. W: Louise. Ch: Scott David, Christy Anne,

Mark Craig, B. May 21. Job: Area Mktg Mgr, H Koch & Sons. Educ: E Stroudsburg State, BS. Svc: USAF, USMC. Ret: 75. 30 yrs. AFA.

BREDENBERG, Terry, (MR.) (M84) (Terry) Rotor & Wing Int'l, News Plaza, Peoria, IL 61656. Dy: (309) 682-6626. W. Sue. Ch: David, Laura, Daniel. B. Jul 12. Job: Exec Dir, Adv PJS Publ. Educ: U of MN, BS. Svc: USA. 2 yrs. AHS.

BREEDING, Linda J., (MS.) (M83) 636 Sausalito Drive, Casselberry, FL 32707. Dy: (305) 894-8041. Res: (305) 834-3433. H: John T. Ch: Cory. Job: Admin Asst, Singer Link, Flight Simulation Div.

BRICKNER, Dave, (MR.) (M84) Sperry Flight Systems, P.O. Box 9200, Albuquerque, NM 87119. Dy: (505) 822-5031. Res: (505) 265-7184. Job: Dir, Bus Dev. Educ: GM Inst. BEE; AZ State U, BSE.

BRIDGES, Ed A., (MR.) (M58) (Ed) Northrop Worldwide Aclt, Box 519, Fort Rucker, AL 36362. Dy: (205) 598-4545. Res: (205) 792-5486. W. Fern. B. Oct 20. Job: Mgr, Fort Rucker Div. Svc: USA, USAF. 11 yrs. AUSA. Past VP, Grand Canyon.

BRIGHT, Frank J., (MR.) (M84) (Frank) Harris Corporation, POB 94000, BL 101/2925, Melbourne, FL 32902. Dy: (305) 729-7339. Job: Dir, Adv Avionics Prog, GASD.

BRITT, P. P., (MR.) (M83) (Pete) Georgia Institute of Tech, EES/Rail, Atlanta, GA 30336. Dy: (404) 424-9636. W. Swiss. Ch: Sadie, Lillian, Henry. B. May 25. Job: Sr Res Engr. Educ: U of AL, BSME; Syracuse U. Svc: USA. 6 yrs.

BROOKS, Arnold, (MR.) (M70) (Arnie) General Electric Company, 1000 Western Ave, MS 26809, Lynn, MA 01910. Dy: (617) 594-2808. Res: (617) 592-0656. W. Lenore. Ch: George, Peter, Matthew, David. B. Nov 1. Job: Mgr, Adv Sys Eng Proj Div. Educ: Columbia University, BS; Princeton, MA. AHS, AUSA.

BROWN, Arthur W., (MR.) (M76) 9110 Doty, Beaumont, TX 77707. Dy: (713) 975-9899. Res: (409) 896-3845. W. Kathleen. Ch: Amy. B. Nov 18. Job: Dir of Ops, Armadillo Airways. Svc: USA. 7 yrs.

BROWN, David K., (MR.) (M82) (Dave) 2903 Kragl Dr, Churchville, MD 21028. Dy: (301) 838-9292. Res: (301) 734-7572. W. Eileen. Ch: Dave, John, Cheryl, Lauri. B. Feb 23. Job: Dist Mgr, Russell Assoc. Educ: Buffalo, AL; Howard & Harford CC. Svc: USN. 4 yrs. HCA, AHS, AUSA, AFA.

BROWN, Frank B., (DR.) (M84) Cobro Corporation, 11510 Georgia Ave-Site 300, Wheaton, MD 20902. Dy: (301) 933-6950. W. Pat. Job: Chairman. Educ: U of SC, BS; U of NC, PhD. Svc: USAF. 5 yrs.

BROWN, Milton, (COL) (M82) (Milt) Nat'l Aeronautics Assoc, 521 15th Street, N.W., Washington, DC 20005. Dy: (202) 347-2808. W. Jeannette. Ch: Stephen, Larry, Jerry, Kelly. B. Jul 24. Job: Secy, Contest & Records Board. Educ: U of MD, BS. Svc: USAF. Ret: 71. 29 yrs. AFA.

BROWN, Robert E., (MR.) (M83) (Bob) Allison Gas Turbine Div, P.O. Box 420, P&A, Indianapolis, IN 46206. Dy: (317) 242-5322. Ch: Stephanie, Hubert, Susan, David. B. Feb 2. Job: Dir, Prod Assurance. Educ: USMA, MS; USC, MS. Svc: USAF. Ret: 69. 13 yrs.

BROWN, Willis J., (MR.) (M83) Emerson Electric Co., Electronics & Space Div, St. Louis, MO 63136. Dy: (314) 553-2718. Job: Mktg Mgr, Electronics & Space Div. Educ: Auburn U, BS; U of Puget Snd MBA. 6 yrs.

BRUCE, Richard H., (MR.) (M82) (Dick) 39 Duner Road, Burlington, VT 05401. Dy: (802) 862-9143. Res: (802) 862-9143. W: Barbara. Ch: Jennifer, Kathie. B. Aug 28. Job: Mgr/Pres, BDF Properties Inc. Educ: U of VT, BSEE. Svc: USAF. 4 yrs. AUSA.

BRUNSON, Wright A., (MR.) (M84) 1806 Winwood Lane, Arlington, TX 76013. Dy: (214) 256-2082. W. Nancy. Ch: Elizabeth, Wright III. B. Jun 25. Job: Sr Rep, So Cen Reg, Sperry Defense Sys. Educ: USN Postgrad, BS; USC, MS. Svc: USN. Ret: 75. 23 yrs. AHS, AFA.

BULAKOWSKI, John A., (MR.) (M76) (Jack) 162 Lorann Drive, Naugatuck, CT 06470. Dy: (203) 386-6357. Res: (203) 729-9663. W: Deborah. Ch: Adam, Paul. B. May 26. Job: Black Hawk Business Manager, Sikorsky Aircraft. Educ: Manhattan Coll, BSME; UB, MSME; UCONN, MBA. AHS, AUSA.

BULT, Kenneth R., (MR.) (M82) (Ken) Garrett Turbine Engine Co, 2401 East Magnolia Street, Phoenix, AZ 85038. Dy: (602) 231-3861. Res: (602) 897-1325. W: Charlotte. Ch: Elizabeth, Karen. B. Jan 12. Job: Supv, Army Sys ILS. Educ: Purdue. Svc: USA. 2 yrs.

BUNDY, Cecil W., (MR.) (M83) (Cecil) Beech Aircraft Corp, 9709 E. Central, POB 85, Wichita, KS 67201. Dy: (316) 681-8422. Job: Asst, Aerosp Shows & Exhibits.

BURDEN, John R., (LTC) (M82) (Jack) The Emerald Corp, 7890 Backlick Rd, Ste 6, Springfield, VA 22150. Dy: (703) 569-3433. Res: (703) 323-6076. W: Jean. B. Jun 6. Job: Consultant. Educ: USMA, BS. Svc: USA. Ret: 60. 20 yrs. AHS, AUSA, AFA.

BURGER, Douglas A., (MR.) (M82) (Doug) Gould Inc, Navcom Systems, 4323 Arden Drive, El Monte, CA 91731. Dy: (213) 442-0123. Res: (714) 528-7519. B. Apr 17. Job: Dir of Mktg, Avionics. Educ: U of MD, BA; GWU, MS. Svc: USAF. 12 yrs. AFA.

BURKDAL, Richard L., (MR.) (M82) (Dick) Dalmo Victor Operations, 1515 Industrial Way, Belmont, CA 94002. Dy: (415) 594-2714. Res: (415) 342-1725. Ch: Donald, Karen. B. Jul 20. Job: Director Customer Requirements. Educ: Purdue, BSME; U of Santa Clara, MBA.

BURNHAM, Gerald O., (MR.) (M83) (Gerry) Texas Instr. Equip. Group, 2501 S. Hwy 121, POB 405, Lewisville, TX 75067. Dy: (214) 462-4764. Res: (214) 422-5516. W: Thelma. Ch: Brenna, Brea. B. Jun 2. Educ: CA State U, BA MS; USC, MS PhD. Svc: USN. 5 yrs.

BURNS, R. Stephen, (MR.) (M84) (Steve) Garrett Corporation, 2801 E. Washington, Phoenix, AZ 85034. Dy: (602) 231-3805. Res: (602) 957-7026. W: Emily. B. Jul 14. Job: Sales Mgr, Pneumatic Sys Div. Educ: Rice, BSEE. Svc: USA. 2 yrs. AUSA, AFA.

BURRESS, James H., (COL) (M79) (Jim) Talley Ind. of Ariz, 2001 Jeff Davis Hwy, 1101, Arlington, VA 22202. Dy: (703) 521-1778. Res: (703) 860-5845. W: Billie. B. Sep 12. Job: Wash Dist Rep. Educ: NB, BS. Svc: USA. Ret: 79. 30 yrs. AHS, AUSA, AFA.

BUSH, Madelyn J., (MS.) (M83) Boeing

B The 1984 Industry Team

Vertol, Box 16858, Philadelphia, PA 19142. Dy: (215) 522-2864. W: Richard. B. Jun 7. Job: PR Coord. VP, Delaware Valley.

BUTLER, Wm. David, (MR.) (Dave) Singer Company, P.O. Box 246, Daleville, AL 36322. Dy: (205) 598-2418. W: Susie. Ch: Corey. Job: Sales Mgr, Ft. Rucker Dist, Link Fit Sim Div. AHS, AUSA.

BYROME, C.L., (MRL) (M78) E-Systems, PO Box 1056, Greenville, TX 75401. Dy: (214) 457-4694. Res: (214) 455-3625. W: Patsy. Ch: Kyle, Kelli, Kendra. B. Job: VP Mkt Dev. Educ: Texas Tech, BSEE. Svc: USN. 6 yrs. AFA.

CCCCCCCCCCCCCCCC

CAINE, Alan, (MR.) (M81) (Alan) Lucas Aerospace, 155 Rte 46 W, Fairfield, NJ 07006. Dy: (201) 227-8000. Res: (201) 825-7419. Job: Adv Prog, Mktg Mgr. AHS.

CAMPBELL, W.C., (MR.) (M74) (Bill) Allison Gas Turbine, PO Box 420, Indianapolis, IN 46206. Dy: (317) 242-5396. Res: (317) 844-2508. B. May 24. Job: Dir, Sales & Allied Prod. Mkt State U, BSME. Svc: USN. 3 yrs. HCA, AHS, AUSA, AFA.

CAMPBELL, William H., (MR.) (M79) (Bill) Martin Marietta Corp., 2061 Dyan Way, Maitland, FL 32751. Dy: (305) 352-4653. Res: (305) 645-0350. W: Joan. Ch: Tracy. B. Oct 31. Job: Deputy Dir Mktg, Aerosp. Educ: Columbia, BA BSEE; Harvard, MBA. Svc: USN. 3 yrs. AUSA.

CANTERBURY, Ann, (MS.) (M78) 815 Derhake Road, Florissant, MO 63033. Dy: (314) 731-5902. Res: (314) 831-7648. Ch: Kathryn Lynne, Jennifer Ann. B. Apr 11. Job: Admin Asst, Avco Lycoming Div. Educ: SIU, BS, Tra, Lindbergh Chapter.

CAPORALI, Renzo, (MR.) (M79) (Cap) Grumman Aerospace Corp, MS A09-35, Bethpage, NY 11714. Dy: (516) 575-3696. Res: (516) 388-4012. W: Norma. Ch: Michael. B. Apr 12. Job: Sr VP Tech Ops. Educ: Clarkson, BSE MME; Princeton, MS AE PhD. Svc: USN. 14 yrs.

CARAVASOS, Niko, (MR.) (M84) (Nick) Boeing Vertol, PO Box 16858, MS P30-27, Philadelphia, PA 19142. Dy: (215) 522-2301. W: Mary. Ch: Nialena. B. Feb 28. Job: SIV Mgr. Educ: WVA, BSME, UCLA; Widener.

CAREY, Hugh, (MR.) (M84) Telephonics Corp, 333 W. 1st St, Ste 232, Dayton, OH 45402. Dy: (513) 224-3240. Res: (513) 778-3131. W: Dorothy. B. Apr 11. Job: Reg Mgr. Svc: USAF. Ret: 65. 23 yrs. AFA.

CARMENA, J.A., Jr., (MR.) (M84) (Allan) P.O. Box 31100, Amarillo, TX 79120. Dy: (806) 353-1551. Res: (806) 353-5774. B. Oct 13. Job: Dir, Bell Hcprr Textron. Educ: U of TX, BBA, AUSA.

CARTER, Edward S., (MR.) (M74) (Ted) 5210 Congress Street, Fairfield, CT 06430. Dy: (203) 386-4223. Res: (203) 259-9935. W: Ann. Ch: Janet, Misty, James. B. Oct 17. Job: Chief Scientist, Sikorsky. Educ: Princeton, BSAE, MIT, MS AE. Svc: USN. Ret: 52. AHS.

C

The 1984
Industry
Team

CARVER, Oliver T., (MR) (M81) RCA, Automated Sys., PO Box 588, Burlington, MA 01803. Dy: (617) 229-3241. Job: Mgr Prog. Opns. Educ: WVA; NE, BS Med. Svc: USA.

CASEY, Curtis J., (MR) (M82) (Curt) Daimo Victor Operations, 1515 Industrial Way, Belmont, CA 94002. Dy: (415) 584-2635. Res: (415) 595-5886. B: Mar 7. Job: Sr Mktg Mgr, Army Prog. Educ: American Tech U. BS MS. Svc: USA. Ret: 79. 20 yrs. AUSA.

CASSIDY, Floyd M., (MR) (M82) Honeywell, Micro Switch, 1766 Old Meadow Lane, McLean, VA 22102. Dy: (703) 827-3381. Res: (301) 340-9087. Job: Govt Proj Mgr. Educ: U of IL, BSEE. AHS.

CATLIN, James B., (MR) (M84) (James) UB 35 Cedar Knolls Dr, Branford, CT 06405. Dy: (203) 385-3943. Res: (203) 481-6104. W: Barbara. B: Sep 21. Job: Tech Liaison Proj Mgr, Avco Locomot. Educ: U of Pittsburgh, BSAE. AHS.

CAUSEY, Willard B., (MR) (M84) Cherry Truck, 1224 E. Warner, Santa Ana, CA 92707. Dy: (714) 545-5511. W: Betty J. Ch: Doug, Fay, Key, Laurie, Andy. B: June 9. Educ: USC, BE. Job: Mgr Mktg Svc: USMC 24 yrs.

CHADWICK, Russell D., (MR) (M83) 11969 S.W. Herman Rd, Sherwood, OR 97140. Dy: (503) 692-0570. Job: Pres, Chadwick, Inc.

CHALFIN, Albert, (MR) (M82) Analytics, 2500 Maryland, Willow Grove, PA 19090. Dy: (215) 657-4100. Job: Consultant.

CHANG, Soon Suk, (MR) (M84) Korea Enterprise, Inc., 57-39 Etan Woon Dong, San Ku, Seoul Korea. Dy: 794-5329. Res: 782-0368. Ch: Chang Joon Ho, Chang Jae Ho. B: Aug 15. Job: Pres. Educ: Kun Kook U, Diplomacy. 3 yrs. Svc: ROK Army.

CHARLTON, Scott E., (MR) (M83) HR Tecton, Inc., 25200 W. Rye Canyon Rd., Valencia, CA 91355. Dy: (805) 253-5541. Res: (805) 259-3270. W: Beth Allison. B: Jun 13. Job: Sales Engr. Educ: Kent State, BS. Svc: USAF. 2 yrs.

CHERNOWITZ, George, (MR) (M67) 705 Grand Avenue, Ridgefield, NJ 07657. Dy: (201) 945-8203. Job: Dir, American Power Pet. AHS, AUSA.

CHILDERS, Arthur B., (MR) (M84) (Art) Avn Safety & Analysis, Inc., 1101 14th St, NW, No. 1000, Washington, DC 20005. Dy: (202) 898-0322. Job: Pres. Educ: USC.

CHILTON, James P., (MR) (M81) (Jim) McDonnell Douglas, 5301 Bolsa Ave, Huntington Beach, CA 92647. Dy: (714) 896-3402. Res: (213) 870-3734. W: Shirley. Ch: Kevin, Theresa, Timothy. James. B: Mar 17. Job: PM, Mast Mounted Sight, Astronautics. Educ: BSAE, MSAE. Svc: USN. 2 yrs.

CHO, Heng Ja, (MR) (M84) Korea Enterprise, Inc., 57-39 Etan Woon Dong, San Ku, Seoul Korea. Dy: 794-5329. Res: 782-0368. Ch: Chang Joon Ho, Chang Jae Ho. B: Jan 23. Job: VP.

CHREIMAN, Paul E., (MR) (M83) Brownell

and Company, Main Street, Moodus, CT 06460. Dy: (203) 873-8625. Res: (203) 226-3038. B: Apr 20. Job: Ind Sales.

CIECHON, J.S., (MR) (M72) Boeing Vertol Corporation, P31-09 PO Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3321. Job: Dir, Bus Mgmt.

CIMINERA, Michael, (MR) (M79) (Mike) Grumman Aerospace Corp, MS C48-05, Bethpage, NY 11714. Dy: (516) 575-7533. W: Donna. Job: Dir, Adv Sys Tech.

CLAGUE, Stanley K., (MR) (M82) (Ken) Perkin-Elmer Corporation, 100 Wooster Heights Road, Danbury, CT 06810. Dy: (203) 797-6102. W: Ellen. B: Nov 11. Job: Mgr Prog Spt. Educ: U of NE, BA. Svc: USAF. Ret: 78. 22 yrs.

CLANCY, Thomas M., (MR) (M78) (Tom) Sanders Ass., Mer 15-2250-C-3, 2035, Nashua, NH 03061. Dy: (603) 895-4731. Res: (603) 882-8285. W: Alice. Ch: Kathleen, Joanne, Thomas, Timothy, Christopher. B: Sep 8. Job: Dir, Adv Tech, Dis. Educ: Tufts, BSEE; Union Coll, MS. AUSA.

CLARK, Larry K., (MR) (M65) 2312 W. Mandalay Lane, Phoenix, AZ 85023. Dy: (602) 863-8941. Res: (602) 942-7983. W: Terrie. Ch: Dawn, Ava, Jeremy, Michael. B: Sep 14. Job: Test Pilot, Sperry Fil Sys. Svc: USA. 4 yrs. AHS.

CLARK, Richard D., (MR) (M83) (Dick) 14975 Oro Grande, Sylmar, CA 91342. Dy: (213) 305-5002. Res: (213) 367-6337. W: Daniela. B: Jun 28. Job: ATE PM, AAH Prog. HHI. Svc: USA. 7 yrs. AHS.

CLINE, Gib D., (MR) (M82) Dayton-Granger, 812 N.W. 1st St, Ft Lauderdale, FL 33311. Dy: (305) 483-3451. Job: Exec VP.

CLYONS, John P., (MR) (M76) Pequot Promotions, 108 Pierce Avenue, Bridgeport, CT 06604. Dy: (203) 333-6635. Res: (203) 333-6635. W: Theresa. Ch: Paul, Thomas, Katherine, Jacqueline. B: Nov 26. Educ: U of Bridgeport, BA. Svc: USA. 3 yrs.

COATES, O.E., (MR) (M74) (Sam) Litton Systems, 5500 Canoga Ave, Woodland Hills CA 91365. Dy: (213) 715-2922. Res: (213) 837-4003. W: Barbara. Ch: Chad. B: Oct 10. Job: Dir, Programs Mgmt. Educ: Augustana, SD. Svc: USN. 4 yrs. AUSA.

COBB, Jerry, (MR) (M83) (Jerry) McDonnell Douglas, 5301 Bolsa Ave, Huntington Beach, CA 92647. Dy: (714) 896-4321. W: Yvonne. Ch: Julie, Kimberly. Job: Dir, Prog Dev & Mktg. Educ: Louisville, BME; UCLA MS. Svc: USMC. 4 yrs.

COBB, John W., (MR) (M84) (Jack) 865 E. Sepulveda Blvd., Carson, CA 90745. Dy: (213) 834-2611. Res: (714) 846-0762. W: Mary. Ch: Jim, Amanda. B: Mar 23. Job: Reg Mgr, Rockwell-Collins, GAD. Educ: UCLA, BS; USC MSEE. AFA.

COCHRAN, Richard O., (MR) (M84) (Dick) Northrop Worldwide Acft, P.O. Box U, Ft Eustis, VA 23604. Dy: (804) 678-4169. Res: (804) 693-2123. W: Ann. B: Feb 3. Job: Div Mgr. Educ: Webster U, MS. Svc: USA. Ret: 82. 20 yrs. AUSA.

CODISPOTI, Vincent, (MR) (M81) Chandler Evans, Cont-Ceco-Charter Oak Bldg, West Hartford, CT 06101. Dy: (203) 236-0605. Job: Contr Admin. Svc: USA. Ret: 69.

COENSON, Martin, (MR) (M70) Bendix

Corp., MS 217A, Route 46, Teterboro, NJ 37608. Dy: (201) 393-3332. Res: (203) 226-8836. W: Rita. Ch: Steven, Barbara, Craig, Douglas. B: Feb 5. Job: Sr. PM.

COLLIN, Sid R., (MR) (M78) ITT Corporation, 1600 M Street, N.W., Washington, D.C. 20036. Dy: (202) 296-6000. W: Anne. B: Jul 4. Job: Dir Fid Mktg, Avionics. Educ: Princeton, BS. Svc: USN. 1 yrs. AUSA.

COLMAN, Samuel, (MR) (M83) (Sam) ITT Avionics, 88 West Maple Ave, Monsey, NY 10952. Dy: (201) 284-2978. Res: (914) 425-1079. W: Clara. Ch: Miriam, Jack, Abe. B: Jan 14. Job: PM. Educ: CCNY, BSEE.

COLTMAN, Joseph W., (MR) (M83) Simula Inc., 2223 S. 48th Street, Tempe, AZ 85282. Dy: (602) 438-1446. Job: Proj Engr. Educ: PA State U, BS MSME.

COLUCCI, Frank, (MR) (M83) Defence Helicopter World, 250 W 34 Street, 26th Fl, New York, NY 10119. Dy: (212) 290-7258. Res: (212) 377-8693. Job: N American Corres, Thomas Publishing. AHS, AUSA, AFA.

CONANT, Gregory C., (MR) (M83) Deutsch Co., MCD, 28801 Kenroy Ave, Canyon Country, CA 91351. Dy: (213) 323-6200. Res: (805) 251-4914. W: Judith. Ch: Joshua. B: May 16. Job: Dir of Mktg, Metal Components. Educ: Hampton Inst, BS; Cal State MS. Svc: USA. 7 yrs.

CONLAN, John, (MR) (M75) (Jack) ECC-175 Strafford Ave, Strafford PA 19087. Dy: (215) 687-2600. W: Mary. Ch: Suzanne, Peter, John. B: Jul 7. Job: Mktg Dir, Educational Computer. Educ: Fordham, BS. AUSA.

CONN, John W., (MR) (M78) ITT Corporation, 500 Washington Avenue, Nutley, NJ 07110. Dy: (201) 284-3587. Job: PM, Logis. Educ: Fairleigh Dickinson, BS. Svc: USA.

CONSTANTINO, Jerry, (MR) (M84) Rotor & Wing Int'l, News Plaza-Po Box 1790, Peoria, IL 61656. Dy: (309) 682-6626. Job: Publisher.

COPE, Lawrence, (LTC) (M82) (Larry) Loral Corporation, 1911 Jeff Davis Hwy, Arlington, VA 22202. Dy: (703) 685-5300. Res: (301) 867-0835. Ch: Tracy, Wendy, Andrea. B: Jan 19. Job: Mkt Analyst, Electronic Sys. Educ: Central MI U, MBA; AF Inst of Tech, BSEE. Svc: USAF. Ret: 80. 21 yrs. AHS, AUSA, AFA.

CORP, Donald E., (MR) (M77) Calspan Corporation, P.O. Box 400, Buffalo, NY 14225. Dy: (716) 631-6706. Educ: Purdue, BSEE. Svc: USN. 4 yrs.

COSCINA, Michael A., (MR) (M68) (Mike) Torbomach, 4400 Ruffin Rd, San Diego, CA 92123. Dy: (619) 238-2832. Res: (619) 287-6644. B: Sep 19. Job: Gen Mgr, Mktg. Educ: GM Inst of Tech, BSIE; USN Post Grad, BSAA. Svc: USN. Ret: 66. 15 yrs.

COSGROVE, John D., (MR) (M81) (Jack) 4114 Hickory Hill LA, SE, Cedar Rapids, IA 52403. Dy: (319) 395-2150. Res: (319) 365-4485. W: Dilla. Ch: Kelly, Jill, Tracey, Patrick. B: Dec 14. Job: Pres, Rockwell Int'l. Educ: Iowa St., BSEE. Svc: USA. 2 yrs. AUSA, AFA. Past Pres, Cedar Rapids.

COUGHENOUR, W.R., (MR) (M76) (Bill) Beech Aircraft Corp, P.O. Box 85, Wichita, KS 67201. Dy: (316) 681-7189. W: Pat. Ch: Kurt, Lauri. B: Dec 7. Job: VP, Aerosp

Prog. Educ: Wichita U, BSIE, AFA.

COUTOUMANOS, George, (MR.) (M63) Bell Helicopter Textron, POB 482, Dept 14, Ft. Worth, TX 76101. Dy: (817) 280-3261. Res: (817) 236-1728. W: Dianne. Ch: Vincent, Steven. B: Jan 23. AHS, AUSA. Treas. North Texas Chap.

CRAWFORD, W.J., III, (MR.) (M74) (Bill) General Electric, 1000 Western Ave, MS-34007, Lynn, MA 01910. Dy: (617) 594-5244. Job: VP & Gen Mgr, Eng Proj Div.

CREMONA, Vincent F., (MR.) (M77) (Vince) 6749 E. Loomis Street, Lakewood, CA 90713. Dy: (213) 305-5348. B: Jan 8. Job: Dir, AAH Logis Prog, Hughes Hcptrs.

CRESSALL, William F., (LTC) (M62) (Bill) Hughes Hcptrs, Centinela & Teale, T-137, Culver City, CA 90230. Dy: (213) 305-5712. Res: (213) 637-0389. B: Oct 8. Job: Apache Mktg Rep. Educ: VMI, BA; U of MO, MPA. Svc: USA, USMC. Ret: 81, 21 yrs.

CRISCOULO, G. P., (MR.) (M84) Magnavox Govt & Ind Electronics, 1700 N. Moore, Ste. 820, Arlington, VA 22209. Dy: (703) 522-9616. Job: Sr Prod Mgr. Svc: USMC. Ret: 78, 21 yrs.

CROWELL, Charles H., (MR.) (M79) 6709 Georgia Street, Chevy Chase, MD 20815. Dy: (301) 528-3373. Res: (301) 652-3921. Job: Consultant, Charles H. Crowell, Inc. Educ: Princeton, BS MS. Svc: USN. 2 yrs. AHS, AUSA, AFA.

CRONIN, Charles, (MR.) (M83) (Chuck) American Electronic Labs, P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Job: Sr VP Mktg.

CULLEN, Brian D., (MR.) (M84) Harris Corporation, POB 94000, Bldg 101/2924, Melbourne, FL 32902. Job: VP, Govt Sys Sector, GASD.

CURRAN, James A., (MR.) (M84) (Jim) Rockwell-Collins, 124-317, 400 Collins Road NE, Cedar Rapids, IA 52403. Dy: (319) 395-4815. Res: (319) 362-1613. W: Mary. Ch: Jamison, Christopher. B: Jul 21. Job: Sys Engr. Educ: U of WI, BA, BSEE.

CURTIS, Harry W., (MR.) (M84) 741 Mirador Rd, Vestal, NY 13850. Dy: (607) 772-3293. Res: (607) 754-8484.

CUSHING, Wilson J., (MR.) (M79) (Wilson) Emerson Electric, 8100 West Florissant, St. Louis, MO 63136. Dy: (314) 553-2463. W: Marvella. Ch: Donna, Tamara, Kevin. B: Sep 6. Job: Mgr Sales Promo. Educ: Alfred U, BS Bio-Chem. Svc: USA, USAF. Ret: 67, 21 yrs. AUSA, AFA.

CUTKO, Edwin F., (MR.) (M84) LTV Aerospace and Defense, P.O. Box 225907, Dallas, TX 75265. Dy: (214) 266-5179. Job: Pres, Aero Prod Div. Educ: NYU, BS.

DDDDDDDDDDDDDDDD

DAHME, Joseph J., (MR.) (M82) (Joe) Rockwell Collins, 141 Brentwood Drive, NE, Cedar Rapids, IA 52402. Dy: (319) 395-5308. Res: (319) 377-5635. W: Jeanne. Ch: Valerie, Jeffrey, Marshall. B: Nov 18. Job: Engrg Mgr. Educ: Iowa St., BSEE.

DALTRY, Robert P., (MR.) (M78) Lear Siegler, Inc., 4141 Eastern Ave., SE, Grand Rapids, MI 49508. Dy: (616) 241-8960. W: Mary Lou. Ch: Bobby, John, Danny. B: Mar 3. Job: VP Mktg. Educ: Grove City Coll, BA Actg. AUSA, AFA.

DANKO, Michael, (MR.) (M84) (Mike) RCA MSG, PO Box 304, Moorestown, NJ 08057. Dy: (609) 778-2296. Res: (609) 778-8224. Ch: Michael, Lisa, Marianne. Eric. Job: Mktg Mgr. Educ: CA State, BS.

DAVIS, Charles E., (MR.) (M80) (Charley) Bell Hcptr Textron, P.O. Box 482, Dept 81, Ft. Worth, TX 76101. Dy: (817) 280-2448. Res: (817) 469-7733. W: Martha. Ch: Charles Jr, Jefferson, Robin. B: Sep 21. Job: VP, Prod Engr. Educ: U TX, BS; SMU, MS; Dallas, MBA. Svc: USN, AHS, AUSA.

DAVIS, Jack, (MR.) (M84) Loral Corporation, 300 N. Halstead Street, Pasadena, CA 91109. Dy: (818) 351-5555. W: Natalie. Ch: Jeff, Karen, Brad. B: Jun 5. Job: Pres, Electro-Optical Sys & Corp VP. Educ: Rice, BA; Colorado Coll, BS. AUSA.

DAY, Shaffer T., (MR.) (M84) (Shay) Simmonds Precision, MCD, 197 Ridgedale Ave, Cedar Knolls, NJ 07927. Dy: (201) 267-4500. Res: (201) 328-8609. W: Mami. Ch: Carp, Sarah. B: Mar 23. Job: Mgr Aerosp Mktg. Educ: GA Tech, BAE; Wharton, MBA, AHS.

DEBURKARTE, Donald E., (MR.) (M83) (Don) 3241 Feather Ridge Road, Toddville, IA 52341. Dy: (319) 395-4747. Res: (319) 395-0607. W: Elaine. B: Jun 20. Job: Mgr, Integrated Logistics Spc, Rockwell-Collins Del Comm Div. Educ: Purdue U, BSEE. Svc: USN. Ret: 73, 26 yrs.

DEL GROSSO, Tony J., (MR.) (M78) Singer, Link Div, 118 W. 1st St, Ste 600, Dayton, OH 45402. Dy: (513)-222-8948. Job: Dist Mgr. Svc: USA. 9 yrs. AHS, AUSA, AFA.

DELANEY, Samuel J., (MR.) (M74) (Sam) ITT Gilliland-766 Shrewsbury, Tinton Falls, NJ 07724. Dy: (201) 747-8228. Res: (201) 493-8416. W: Jean. Ch: Timothy, Scott. Job: Reg Mgr. Educ: Amer Inst of Tech, BSEE. Svc: USA. 3 yrs. AUSA, AFA. Sr VP, Monmouth Chapter.

DEMARRIS, Bernard, (MR.) (M84) (Danny) 87 Monmouth Rd, Spotswood, NJ 08884. Dy: (201) 747-9303. B: Aug 7. Job: Sr Assoc. Educ: CCNY, BEE; Brooklyn Polytech, MSEE; FDU, MBA.

DEMING, D. E., (MR.) (M83) Honeywell, 121 Presidential Blvd, Bala Cynwyd, PA 19004. Dy: (215) 835-2500. W: Lillian. Ch: Deborah, Kurt, Karl, Shelley. B: Nov 18. Job: Dir, NE Reg. Educ: Tri State, BSME.

DENDY, John C., (MR.) (M81) Hughes Hcptrs, Centinela & Teale, Culver City, CA 90230. Dy: (213) 305-4809. Job: VP, Light Hcptr Prog. Educ: Auburn, BSEE.

DENNIS, James, (MR.) (M84) (Jim) Harris GASD, PO Box 94000, Melbourne, FL 32902. Dy: (305) 729-7142. Res: (305) 676-4992. W: Sandra. Ch: Jamie, Alan. Job: Bus Dev. Svc: USA. 14 yrs.

DERAGON, Frederick G., (MR.) (M79) (Fred) Garrett Corp., Alresarch, 2525 W 190th, Torrance, CA 90509. Dy: (213) 512-2889. Res: (213) 377-9484. W: Joan. Ch: Kathleen, Rick, Peter. B: Jul 30. Job: VP Sales. Educ: RPI, BME. Svc: USA. 5 yrs. AUSA.

DERR, R.E., (MR.) (M79) (Dick) 400 Collins Rd, NE 124-303, Cedar Rapids, IA 52498. Dy: (319) 395-3202. Res: (319) 363-5492. W: Doris. Ch: Dennis, Sandy, Jacki. B: Aug 24. Job: VP & GM, Collins Govt Avncs. Educ: Cinn, BSEE; U SC, MSEE. AHS.



The 1984 Industry Team

Pres & Past Sr VP, Cedar Rapids.

DESJARDINS, Stanley P., (MR.) (M83) (Stan) Simula Inc., 2223 S. 48th Street, Tempe, AZ 85282. Dy: (602) 438-1446. Ch: Sandra. B: Oct 21. Job: Pres. Educ: U of ID, BSEE. Svc: USA. 3 yrs. AHS.

DEVEAU, Anthony, (MR.) (M83) (Tony) Canadian Marconi, 2442 Trenton Ave, Montreal Que H3P 1V9 Can. Dy: (514) 341-7630. Job: Mktg Mgr, Mil Prod. Educ: McGill, MBA; Concordia, BCOM.

DEYO, Ray, (MR.) (M83) 2217 Via La Brea, Pis Verda Peninsula, CA 90274. Dy: (213) 305-3317. W: Joan. Ch: David, Janet. B: Jul 26. Job: Dir, AAH Adv Prog, HHU. Educ: U of CA, BS.

DIAMOND, Jack, (MR.) (M72) Boeing Vertol, P31-82, PO Box 18658, Philadelphia PA 19142. Dy: (215) 622-2155. Job: Dir, Eng.

DIFRANCO, William G., (MR.) (M81) (Bill) Gould Inc, Navcom Sys, PO Box 529, Farmingdale, NY 07727. Dy: (213) 442-0123. Res: (714) 621-9044. W: Theresa. B: May 12. Job: Dir Mktg, Ft. Monmouth. Educ: UFI, Rgtg Williams. Svc: USA, USAF. 4 yrs.

DIMAGGIO, Joel L., (MR.) (M74) (Joe) Grumman Aerospace Corp, 22 Roe St, Melville, NY 11746. Dy: (516) 575-7238. Res: (516) 549-5714. W: Fran. Ch: Debra Anne, Joanne, Christina. B: Aug 26. Job: Dir, Army Mktg. Educ: Suffolk, AB. Svc: USN. 4 yrs. AHS, AUSA.

DINSMOORE, Lee F., (MR.) (M82) (Lee) Brooks and Perkins, 17515 W Nine Mile Rd, Ste 750, Southfield, MI 48075. Dy: (313) 559-3550. W: Janet. Ch: Christopher. B: Oct 8. Job: Dir Adv & PR. Educ: MI State U, AUSA, AFA.

DISETH, Dianne L., (MS) (M81) (Dianne) 449 Cherry Hill Road NW, Cedar Rapids, IA 52405. Dy: (319) 395-5390. Res: (319) 396-9348. Job: Cust Rep, Rockwell Collins. Educ: Iowa, BA. Sec, Cedar Rapids Chapter.

DITCH, Roger H., (MR.) (M84) RDI Box 1024, Windsor, NY 13685. Job: PM, Singer Link, Flight Simulation.

DIXON, John W., (MR.) (M76) E-Systems, PO Box 226030, Dallas, TX 75266. Dy: (214) 661-1000. Job: Chm of the Board, CEO. Educ: GWU, BS; Miami, MS. Svc: USA.

DODGE, Stuart D., (MR.) (M77) (Stu) P. 30-24, P.O. Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3755. Res: (215) 494-3457. W: Marjorie. Ch: Robert, Terrence, Timothy, Stephanie. B: Jun 20. Job: PM, CH-47 Mil Prog. Educ: U MA, BSCPE; Drexel Inst, MSCE; Harvard, PMD. Sr VP, Delaware Valley Chapter.

DOLAN, Edmund J. Jr, (MR.) (M82) (Ed) Daimo Victor, 1090 Vermont Ave, NW 1100, Washington, DC 20005. Dy: (202) 269-5840. Res: (703) 938-7461. W: Joyce. Ch: Kathleen, Kimberly, Kellie, Ted. B: Sep 24. Job: Wash Rep. Educ: Prov Coll; Catholic, BS. Svc: USA. Ret: 81, 22 yrs. AHS, AUSA.

DOMANOVSKY, Paul, (MR.) (M84) Aero-

D The 1984 Industry Team

spatial Hptr, 2701 Forum Dr, Grand Prairie, TX 75051. Dy: (214) 641-3525. Res: (817) 265-0055. W: Margaret. B: Jun 8. Job: VP Govt Mktg. Educ: St Louis, BS; Iowa St. MS: MC. Ret: 57. 15 yrs. AHS, AUSA.

DONAHUE, Terrence, (MR) (M83) Sikorsky, No. Main St, Stratford, CT 06601. Dy: (203) 222-2160. W: Mary. Ch: John, James, Brian, Robert, Paul, William, Patrick. B: Sep 12. Job: Bus Mgr, Govt Prod Spt. Educ: UB, MA; Holy Cross, BA, AHS.

DONNELLY, J. Patrick, (MR) (M83) (Pat) Boeing Vertol, MS P30-27, PO Box 16858 Philadelphia, PA 19142. Dy: (215) 522-3361. B: Sep 28. Job: Engr, Mil Opns & Tech Org. Educ: RPI, BS; Cornell, AHS.

DONOFRIO, Mario, (MR) (M83) 121 Old Dyke Rd, Trumbull, CT 06611. Dy: (203) 386-6934. Res: (203) 378-1068. B: May 3. Job: Attributes Mgr, Sikorsky. Educ: BSME, AHS.

DONOVAN, Alfred, (MR) (M80) 46 Park Blvd., Wamamassa, NJ 07712. Dy: (201) 531-3984. B: Sep 19. Job: Consultant, Harsey. Educ: NJ Inst of Tech, BS MS.

DORSEY, James A., (MR) (M67) Northrop, Ste. 18-A, 2003 Kalia Rd, Honolulu, HI 96815. Job: VP & Sr Corp Exec, Asla.

DOYLE, Thomas J., (MR) (M76) (Tom) Grumman Aerospace Corp, Stuart, FL 33494. Dy: (305) 287-5300. Res: (305) 287-2892. W: Mary. Ch: Donna, Richard, Leslie, Jeff, Tom. B: Oct 21. Job: OV-1 Mohawk PM. Educ: USMMA, BS; LIU, MS. Svc: USN, AUSA.

DRAZIN, Louis A., (MR) (M81) HR Textron Inc., 25200 West Rye Canyon Rd, Valencia, CA 91355. Job: VP Mktg & Int'l. Educ: USC, BS; UCLA. Svc: USA. Ret: 46. 2 yrs. AHS, AUSA, AFA.

DROGE, Art J., (MR) (M77) Howell Instruments, 181 S. Franklin Av-Rm 307, Valley Stream, NY 11581. Dy: (516) 791-1000. Res: (516) 593-4288. W: Jane. Ch: Art Jr, John. B: Jan 30. Job: Reg Sales Mgr. Educ: Duke U; MIT, BSME. Svc: USN. Ret: 61. 20 yrs.

DUBE, Francis P., (MR) (M84) (Buck) Sanders Assn, 95 Canal St, MER15-2403, C.P. 2035 Nashua, NH 03061. Dy: (603) 885-6006. Job: Dir, Countermeasures, Disd. Svc: USAF. Ret: 83. 30 yrs.

DUGANNE, John A., (MR) (M80) (Jack) McDonnell Douglas, 5301 Bolsa Ave, Huntington Beach, CA 92647. Dy: (714) 896-1746. Res: (714) 556-6727. W: Happy. Ch: Jack, Dianne, Denise, Bill, Robi, Mike, David. B: Dec 16. Job: Mgr, Prog Dev. Educ: BMS. Svc: USAF. Ret: 60. 21 yrs.

DUNCAN, James C., (MR) (M84) (Hamish) Ferranti PLC, St Andrews WKS Robertson, Av, Edinburgh, UK EH111PX. Dy: (031) 337-2442. Res: (031) 332-7773. W: Maureen. Ch: Ian, Sheena, Rory. B: Aug 26. Job: Mktg Mgr. Ret: 81. RAF 32 yrs. AUSA.

DUNNE, Richard C., (MR) (M80) (Dick) Eaton Corp, AIL Div, Commack Road, Deer Park, NY 11729. Dy: (516) 595-5741. Res:

(516) 669-7772. W: Kathleen. Ch: Anne, Kevin, Beth. B: Sep 9. Job: Assistant to the Pres. Educ: Iona, Acad of Aeron, BA. Svc: USMC. 2 yrs. AFA.

DURYEA, D. Corydon, (MR) (M82) (Cory) American Electronic Labs., Crystal Bk Bldg-St Rd 35, Eatontown, NJ 07724. Dy: (201) 542-6433. Res: (201) 787-8004. W: Christine. Ch: Corydon Jr, Victoria. Educ: B: Apr 20. Job: Reg Mktg Mgr. Educ: Fordham, BS. Svc: USAF. 6 yrs. HCA, AHS, AUSA, AFA.

EEEEEEEEEEEEEEEE

ECKERMAN, Richard C., (MR) (M80) (Rich) 748 Northvalley Drive, Westlake Village, CA 91362. Dy: (213) 715-2556. W: Betty. B: Jun 29. Job: Program Manager, Litton Systems, Woodland Hills, CA. Educ: UCLA, BS MS. Svc: USA. 2 yrs.

ECKMAN, C.E., (MR) (M80) ESystems, Serv-Air, POB 1669, Greenville, TX 75401. Dy: (214) 542-2000. Res: (214) 455-8735. W: Marva. Ch: Carla, Dale, Sherry, Mami. B: Jun 18. Job: VP & Gen Mgr, Serv-Air. Educ: U of TX, BSSE, AUSA, AFA.

EHLERS, D.P., (MR) (M78) HR Textron Inc., 25200 West Rye Canyon Rd, Valencia, CA 91355. Job: GM, Prod Spt.

ELIS, Charles W., (MR) (M68) (Chuck) Boeing-Vertol Company, P32-79, P.O. Box 16858, Philadelphia PA 19142. Dy: (215) 522-3111. Res: (215) 356-9126. W: Madeline. Ch: Stephen, John, Kathleen. B: Oct 8. Job: VP, JVC Prog. Educ: MIT, BS MS. Svc: USN. 3 yrs. AHS, AUSA.

ELLIS, William R., (MR) (M58) (Bill) Hughes Helicopters, Inc., Centinela and Teale Sts., Culver City, CA 90230. Dy: (213) 305-5080. B: Jul 11. Job: VP LHX Mktg. Educ: USMA, BS; GA Tech, BAE MSAA. Svc: USA. 10 yrs.

ENGELBERGER, John K., (MR) (M77) Consolidated Cntrl, 15 Durant Ave, Bethel, CT 06801. Dy: (203) 743-6721. Res: (203) 775-3701. W: Lulu. Ch: Jan, Kim, John. B: Dec 31. Job: VP Gen Mgr. Educ: UCONN, BSSE. Svc: USAF. 2 yrs.

ENGLE, Merle, (MR) (M71) Emerson Electric, 8100 West Florissant, St Louis, MO 63136. Dy: (314) 553-3153. Job: Div Pres, of Electronics & Space Div.

ERR, Richard, (MR) (M81) Rockwell Intl, Govt Div, Heathrow House Bath Road, Hounslow England TW5 9QW. Dy: (001) 759-9911. Res: (932) 204-4985. W: Irene. B: May 30. Job: Dir. Educ: Compton Coll, BA. Svc: USN. 11 yrs.

EULER, W. C., (MR) (M84) (Bill) Magnavox Govt & Ind Elect, 2829 Maricopa Street, Torrance, CA 90503. Dy: (313) 618-7007. Res: (213) 377-1391. W: Olive D. Ch: Todd, Jane, Karen. B: Jan 15. Job: VP & Dir Navigation Sys Oper. Educ: U of Buffalo, BSSE. Svc: USAF. Ret: 59. 2 yrs.

EUSANIO, Lawrence A., (MR) (M77) (Larry) Calspan Corporation, P.O. Box 400, Buffalo, NY 14225. Dy: (716) 631-6868. Job: Principal Opns Analyst. Educ: State U of NY, BS MS, AUSA.

EVANS, Albert B. Jr, (MR) (M82) (Al) Daimler Victor Operations, 1515 Industrial Way, Belmont, CA 94002. Dy: (415) 595-1414. W: Susan. B: May 17. Job: Sr

Res Scientist. Educ: CA State, BSSE. **EYES, William, (MR)** (M83) (Bill) Teledyne Systems, 1501 Wilson Blvd, Ste 900, Arlington, VA 22209. Dy: (703) 522-2550. Res: (301) 544-2903. W: Karen. Ch: Rebecca, Sarah. B: Mar 44. Job: Dir Mktg. Educ: Villanova, BSSE; UCONN, MBA.

FFFFFFFFFFFFFFFF

FAHEY, Andrew P., (MR) (M82) (Andy) 7825 Patriot Dr, Annandale, VA 22003. Dy: (703) 525-2590. Res: (703) 941-8558. W: Sarah. Ch: Andrew, Kathleen, Timothy, Julie, Kelly, William. B: Nov 19. Job: Sales Mgr, CAL. Educ: Christian Bros, BSSE. AHS, AUSA, AFA.

FAIRSON, Kenneth E., (MR) (M84) Harris, POB 94000, BL 101/2422, Melbourne, FL 32902. Dy: (305) 729-7202. Job: Sr Ass Principle Engr, Govt Sys Sec, GASD. Educ: Purdue, BSSE; FL Tech, MSSE, AHS.

FELIX, Ruben M., (MR) (M78) 9841 Airport Blvd, No 920, Los Angeles, CA 90045. Dy: (213) 641-5103. Res: (714) 525-2918. W: Jill D. Ch: Donna, Ruben, Regina, Renee. B: Jul 13. Job: Dir, Sales, Western Reg, CAL Div of Recon/Optical. Educ: CA State, BSIE. Svc: USN, AUSA.

FENTER, F.W., (MR) (M81) (Felix) LTV Aerospace and Defense, P.O. Box 225907, Dallas, TX 75265. Dy: (214) 266-7566. W: Raye. Ch: Susan. B: Sep 16. Job: VP, Adv Prog & Tech. Educ: U of TX Austin, BS MS PhD. Svc: USN. 5 yrs.

FERZACCA, Albert L., (MR) (M82) Martin Marietta, 6801 Rockledge Dr, MP 320, Bethesda, MD 20817. Dy: (301) 897-6617. Res: (301) 299-8502. W: Lila. Ch: Michael, Philip. Job: Dir Army Prog. Educ: Manhattan Coll, BS; USC, MS. Svc: USAF. Ret: 75. 20 yrs. AHS, AUSA, AFA.

FESTA, David M., (MR) (M78) (Dave, Godfather) Aircraft Gear, 6633 W. 65th St, Chicago, IL 60638. Dy: (312) 574-2100. Res: (312) 430-5783. Ch: Lisa, Dawn, David. B: Jun 1. Job: Contracts Mgr. Educ: Newark, BSSE; Rutgers, BS; Natl U, MBA. Svc: USAF. 4 yrs.

FILIPPI, Frank J., (MR) (M81) Composite Structures, TRE, 335 W. Warren Way, Arcadia, CA 91006. Dy: (818) 358-3211. Res: (818) 445-6480. W: Carolyn. Ch: David. B: May 28. Job: Mgr, Engrg. Educ: UCAL Berkeley, San Diego State BSME. Svc: USAF, AHS, AUSA.

FISCH, Charles, (MR) (M84) (Charlie) IBM Corp, MS 0902, Owego, NY 13827. Dy: (617) 751-4588. Job: Staff Engr.

FISSETTE, Robert A., (MR) (M77) (Bob) Martin Marietta, 375 Av Louise, Boite 3, 1050 Brussels, Belgium. W: Nancy. B: Apr 3. Job: Exec Dir, European Opns. Educ: MIT, BS. Svc: USN. 4 yrs.

FLATLEY, John, (MR) (M79) (Jack) Boeing Vertol, 1139 Olive, Suite 305, St Louis, MO 63101. Dy: (314) 231-8622. Res: (314) 928-4467. W: Suzanne. Ch: Donna Lynn, John, Colleen, Kevin. Svc: USA. 4 yrs.

FLAVIN, Stuart V., (MR) (M83) Wright Components, PO Box 160, Phelps, NY 14532. Job: President.

FLEURY, Peter A., (MR) (M78) (Pete) Kaiser Elect, 2701 Orchard Park Way, San Jose, CA 95134. Dy: (408) 946-3000. Res:

G

The 1984 Industry Team

Dy: (415) 859-3094. B: Apr 5. Job: Asst Dir, EMSL. Educ: Stanford U, MS & PhD.

GRAFTON, Daniel A. (MR) (M83) (Dan) Beech Aerosp., 615 Stonewall St., Jackson, MS 39213. Dy: (601) 362-0710. B: Jan 29. Job: Mgr Contracts. Educ: U of S. AL, BS; MS Coll, MA. Svc: USAF, 4 yrs.

GRANDAL, Carlos (MR) (M83) Construcciones Aeronauticas, Rey Francisco, 4, 28008 Madrid, Spain. Dy: (004) 794-7911. Job: Dir of Mktg.

GRAZIANO, Joseph (MR) (M77) (Joe) ITT Corp., 390 Washington Ave., Nutley, NJ 07110. Dy: (201) 284-2588. W: Anne. Ch: JoAnne, Sharon, Dawn. B: June 7. Job: Depl Mgr Electronic Def Sys. Educ: Fairleigh Dickinson, BSSE.

GREEN, David (MR) (M84) (Dave) Star-mark Corporation, 1225 Jeff Davis Hwy-10 605, Arlington, VA 22202. Dy: (703) 486-5610. Res: (703) 370-9535. W: Pat. Ch: Jim, Mike, Elizabeth. B: Feb 21. Job: Pres. Educ: Purdue; USNA. Svc: USN, 9 yrs.

GRIFFIN, Robert W. (MR) (MR) (M82) (Bob) Kollsman Instrument Co., Daniel Webster Highway, So., Merrimack, NH 03054. Dy: (603) 889-2500. Res: (617) 396-3194. W: Gloria. Ch: Lynn, Holly. B: April 14. Job: Dir Mktg and Bus Dev. Educ: NE U BSEE, BBA, MBA.

GRIFFITHS, Thomas H. (MR) (M84) Singer Co., Link Div., D-445, Binghamton, NY 13902. W: Peggy. Ch: Ann Marie, Tom, Alyce. B: Jun 18. Job: CH-47D FS Prog Engr. Educ: Empire State Coll, BS. Svc: USMC, 10 yrs.

GRINA, Kenneth L. (MR) (M75) (Ken) Boeing Vertol, P32-04-PO Box 16858, Philadelphia PA 19142. Dy: (215) 522-3310. Res: (215) 566-5295. W: Nellavon. Ch: Douglas, Leif. B: Jun 1. Job: VP Research & Engrg. Educ: U of MN, BAAE. Svc: USA, USAF, USN, USMC, USCG, AHS, AUSA.

GROCCOTT, Douglas (GEN) (M80) (Pinkie) Singer International, 66 Rue De Livourne Ste 2, 1050 Brussels, Belgium. Dy: (002) 538-7051. Res: (002) 354-4450. W: Jean. B: Feb 8. Job: Dir. Internat'l. Res: 77. 35 yrs.

GROSS, Arthur (MR) (M82) (Art) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Job: Mktg Mgr.

GROVER, Fred (MR) (M78) 3328 Lower Ridge Road, San Diego, CA 92130. Dy: (619) 296-0065. Res: (619) 481-2522. W: Betty. B: Aug 28. Job: Dir, Bus Dev, Syscon Corp. Educ: BS MS. Svc: USN, 3 yrs.

GUGLIEMO, Anthony F. (MR) (M84) (Tony) 81 Jog Hill Road, Trumbull, CT 06611. W: Rose Marie. Ch: Marie, Mark. B: Jun 13. Job: Sr Proj Engr, Prop Sys, Sikorsky. Educ: BEI, BSME. Svc: CTNG. 6 yrs.

HHHHHHHHHHHHHHHHHHHH

HALAMANDARIS, Harry (MR) (M84) (H Square) Teledyne Systems, 19601 Northhoff St, Northridge, CA 91324. Dy: (818) 886-2211. Res: (818) 883-1635. W: Sandra.

Ch: Chris, Gina. B: Sep 26. Job: Pres. Educ: Utah St, BS Math BSEE MSEE.

HALL, Charles (MR) (M83) (Chuck) Hall Ass., PO Box 10693, Glendale, CA 91209. Dy: (213) 956-1626. B: Dec 21. AHS.

HALLFIN, L.W. (MR) (M81) Honeywell Inc., 2600 Ridgway Pkwy., Minneapolis, MN 55413. Dy: (612) 378-5290. Job: Dir Mktg, Mil Avionics Div.

HAMLIN, Hilburn J. (MR) (M82) (Jim) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Res: (609) 429-7601. W: Mary. B: Sep 18. Job: Mgr Prog. Educ: Drexel-Syracuse, BS; IN Inst of Tech. Svc: USN, 6 yrs.

HARBAUGH, John W. (MR) (M82) 23347 Wagon Trail Road, Diamond Bar, CA 91765. Dy: (213) 666-6282. Res: (714) 861-4622. W: Nancy. Ch: John Max, Jenny Jo, Julia Ann. B: May 10. Job: Sales Mgr/VP, Featherlike Prod. Fabric A/C Parts. Educ: Woodbury U, BS.

HARBER, Bobby D. (LTC) (M80) (Bob) CAS, Inc. 555 Salkman Drive, Ste 1022, Huntsville, AL 35805. Dy: (205) 837-3903. W: Brooksie. Ch: Noble, Nancy, Norman, Jessica. B: Oct 16. Job: Engr/Analyst. Educ: U of TN, BS; GA Inst of Tech, MS. Ret: LTC 23 yrs. AUSA, AHS.

HARDY, Bill (MR) (M84) Chadwick-Helmuth Co., Inc., P.O. Box 2391, Warner Robins, GA 31099. Dy: (912) 922-4072. B: Nov 11. Job: East Coast Rep. Svc: USAF. Ret: 82. 21 yrs.

HARHOG, Emmanuel (MR) (M82) (Manny) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Res: (215) 282-4587. Job: Mktg Mgr, Aero Div. Educ: Lehigh, BS. Svc: USAF, AHS, AFA.

HARRIS, Edward (MR) (M69) Grumman Aerospace, MS C31-05, Bethpage, NY 11714. Dy: (516) 575-2382. Res: (516) 681-3856. W: Alice. Ch: Robert, Susan. B: Oct 26. Job: Mgr Adv Army Systems. Educ: City College Polytech, BS, AUSA.

HARRIS, M.F. (MR) (M82) (Mike) Rockwell Int'l, 2013 Cunningham Dr, Ste 201, Hampton, VA 23666. Dy: (804) 838-6161. Res: (804) 851-9213. W: Jennifer. Ch: Michael Jr. B: Sep 21. Job: Mgr Gov't Mktg, Del Elect Ops. Educ: Citadel, BS; Troy State, MS; GWU, MA. Svc: USAF, 18 yrs. AUSA, AFA.

HART, Roger (MR) (M82) Canadian Marconi Company, 2442 Trenton Avenue, Montreal Quebec H3P 1Y9. Dy: (514) 341-7630. Job: Mktg Svc Mgr, Avionics.

HARTZLER, John (MR) (M83) (John) Midland-Ross, Grimes Div 550 Rte 55, PO Box 247, Urbana, OH 43078. Dy: (513) 652-1411. W: Barb. Job: Mgr, Nvg Proj.

HARVEY, R. Frederick (MR) (M82) (Fritz) Allison Turbine, PO Box 420, U-8, Indianapolis, IN 46206. Dy: (317) 242-5147. Res: (317) 271-7658. W: Sharlene. Ch: Eric, Laura. B: Apr 13. Job: Dir. Sml Acft Eng Prog.

HARVEY, Thomas E. (MR) (M79) Dynalene, 6801 Calmont, Fort Worth, TX 76116. Dy: (817) 732-4481. Res: (817) 284-0287. W: Margie. Ch: Thomas Jr, Jimmy, Becky. B: Feb 12. Job: Mgr Field Svc Div, Aerosp Ops. Educ: Sacramento & Amarillo Coll. Svc: USAF, AUSA, AFA.

HATTENDORF, Edwin R. (MR) (M83) (Ed) 91D Glenbourne Drive, Bounton, NJ 07005. Dy: (201) 393-2168. Res: (201) 334-6463. W: Bonnie. Ch: Laura, Elaine, Edwin Jr. B: Oct 31. Job: Mgr, Avionics, Bendix FSD. Educ: U of IL, BSEE MSEE. Svc: USAF, 4 yrs.

HATTIN, Ronald F. (MR) (M66) (Ron) Liton Systems, 12234 Tildenwood Dr, Rockville, MD 20852. Dy: (703) 920-4100. Res: (301) 984-1522. W: Frances. Ch: Pamela, Kimberley, Ronald II, Patricia. B: Jun 3. Job: Dir, Navy Reg. Educ: USNA, BS. Svc: USAF, USN. Ret: 56. 8 yrs. AUSA.

HAVILL, F. W. (MR) (M81) 1800 Satellite Boulevard, Duluth, GA 30136. Dy: (404) 476-4191. Job: PM, Tads Laser Tracker, Rockwell Int'l. Educ: U of IL, BSAAE.

HAWLEY, Harvey D. (MR) (M84) (Doc) 611 Cumberland Road, Fredericksburg, VA 22405. Dy: (703) 373-1700. Res: (703) 371-5318. W: Yvonne. Ch: Sandy, Mike, Terry, Sherri. Job: Owner, Prindley Anne Bowling Cen. Svc: USA. Ret: 64. 22 yrs.

HEACOCK, L. V. (MS) (M83) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Job: Mgr Adv Ctronic Labs.

HECHT, Robert M. (MR) (M82) (Bob) 320 Beach Drive, Annapolis, MD 21403. Dy: (301) 266-4444. Res: (301) 266-2984. W: Susan. B: May 14. Job: Sr Engr, Arinc Research Corp. Educ: PA State U, BS; U of New Orleans, MS. Svc: USA, 1L yrs.

HEITZMAN, D. E. (MR) (M81) P.O. Box 831359, 1601 North Plano Road, Richardson, TX 75083. Dy: (214) 783-2004. B: Dec 5. Job: VP Mktg, Electrospace Systems.

HENENWAY, Ward (MR) (M83) (Ward) Avco Lycoming 550 S Main, Stratford, CT 06497. Dy: (203) 385-3351. W: Susan. Job: Dir, Mil Avn Prog. Educ: USMA, BS MBA. Svc: USAF. Ret: 76. 30 yrs. AHS, AUSA. Sr VP, Connecticut Chapter.

HENDERSON, James R. (MR) (M82) Science Applications Inc., 2109 W. Clinton Ave. 800, Huntsville, AL 35805.

HENDERSON, Joann (MS) (M84) 6220 Bentwood Tr. No. 703, Dallas, TX 75252. Dy: (214) 995-1379. B: Mar 28. Job: Mktg Rep, Texas Instr. Educ: North TX State.

HENNEMAN, John W. (MR) (M84) (John) 2734 Hickory Grove Road, Davenport, IA 52808. Dy: (319) 383-6404. Res: (309) 786-8147. W: Patricia. Ch: Mark, Susan, Todd. Job: Dir, Mktg, Clifton Precision Prod, I&LS Div.

HENRY, William S. (MR) (M82) (Bill) Teledyne Ryan Aeron., 1501 Wilson Boulevard, Arlington, VA 22209. Dy: (703) 522-2550. W: Marjorie. Job: VP Mktg. Educ: USMA; IN U, BS. Svc: USA. Ret: 58. 11 yrs. AHS, AUSA, AFA.

HERMAN, G. (MR) (M84) Telephonics Corporation, 789 Park Avenue, Huntington, NY 11743. Dy: (516) 549-6239. Job: Dir Mktg.

HERNANDEZ, John E. (MR) (M84) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Job: Mgr, Reading Facility. Educ: Case-in-st, BS. Svc: USAF. Ret: 63. 29 yrs. AFA.

HESSON, James M. (BG) (M56) (Jim) 8200 Greensboro Dr., 801, McLean, VA 22102.

Dy: (703) 556-9400. Res: (703) 255-3319. W: Joyce. Ch: Laurie, Leslie, Jim Jr. Jeff. B: Nov 28. Job: Sr PM. Educ: St Benedicts, BS; GWU, MS. Svc: USA. Ret: 83. 34 yrs. NEB. Past Pres, Lindbergh Chapter.

HICKOK, Richard C. (MR) (M82) (Dick) General Electric, 1000 Western Ave, MS37486, Lynn, MA 01910. Dy: (617) 594-3168. Res: (617) 887-8459. W: Sandra. Ch: Christine, Valerie. B: Dec 13. Job: GE27 Proj Gen Mgr. Educ: Penn St, BS; RPI, MS; Northeastern, MBA, HCA, AHS, AUSA, AFA.

HILL, Stewart F. (MR) (M81) (Stew) Parkland House, Shere, Guildford, Surrey, GU95JA, England. Dy: (000) 000-3369. W: Karin. Ch: Scott. B: Jun 5. Job: Reg Dir, Petro Ind Europe, Sikorsky Aircraft.

HINDS, William (MR) (M82) (Bill) Emerson Electric, 8100 W Florissant, St Louis, MO 63136. Dy: (314) 731-8501. Res: (314) 391-9044. W: Donna. B: Jan 27. Job: Sr Log Mgr, Prod Spt. Educ: John Carroll, BA; GWU, MBA. Svc: USA. Ret: 79. 20 yrs. AUSA.

HINES, Vincent (MR) (M83) (Vince) Kollsman Instrument Co, Daniel Webster Highway So, Merrimack, NH 03054. Dy: (603) 886-2023. W: Bonnie. Ch: Danielle, Sean, Kevin, Brendan. B: Aug 4. Job: Mgr Int'l Offset Prog. Educ: NY Polytech, BS. Svc: USN. 4 yrs. AUSA, AFA.

HIRSH, Norman B. (MR) (M71) (Norm) Hughes Aircraft, Bldg 6 MS C200 Culver City, CA 90230. Dy: (213) 305-5448. Res: (213) 377-4711. W: Sharon. B: Apr 20. Job: VP & GM, AAH Prog. Educ: Purdue, BS; UCLA. AUSA, AHS, AFA.

HOGAN, Veigh E. Jr. (MR) (M83) Deutsch Company, MCD, 660 Central Parkway, Florissant, MO 63031. Dy: (314) 638-8113. Job: Contractor Applications Engr.

HOKE, Richard (MR) (M84) Sperry Flight Systems, P.O. Box 9200, Albuquerque, NM 87119. Dy: (505) 822-5030. Res: (505) 881-4363. B: Jan 10. Job: Mgr Contracts. Educ: USNA, BS; Loebster U, MA. Svc: USN. 9 yrs.

HOLGATE, Clifford W. (MR) (M68) (Cliff) Boeing Vertol, P30-05, P.O. Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3727. Res: (609) 423-5442. W: Margaret. B: Jan 19. Job: Mgr U.S. Mil Mktg. Educ: Penn St. Svc: USA. 4 yrs. AHS, AUSA, Past Sr VP, Delaware Valley.

HOLKE, Swen (MR) (M83) SAAB-Scania Combitech AB, SAAB Instruments-Box 1017, 505551 1 Jonkoping Sweden. Dy: (463) 619-4338. Job: PM, Hcprl Slight.

HOLLAND, John L. (MR) (M68) (John) E-Systems Memoir, P.O. Box 23500, Tampa, FL 33630. Dy: (813) 885-7000. Res: (813) 962-8526. W: Marie. Ch: John Jr. B: Jan 15. Job: Dir, Electr Warfare & Cust Spt. Educ: Armstrong St, BBA; Ctr Mil U, MA. Svc: USA. Ret: 80. 23 yrs. AUSA, AFA.

HOLLANDER, Jerome M. (MR) (M83) (Jerry) Loral Electronic Systems, Ridge Hill, Yonkers, NY 10710. Dy: (914) 968-2500. W: Kay. Ch: Nancy, David. B: Apr 4. Job: Sr Sys Eng. Educ: CCNY, BEE. Svc: USN.

HOLLE, Walter A. (MR) (M78) Route 1, Woodburn, IN 46797. Dy: (219) 749-8531. Res: (219) 632-4361. W: Anna. Ch: Stephen, John. B: Oct 22. Job: Asst Secy,

Hardware Wholesalers, Incorporated. Svc: USA. 4 yrs.

HOLT, Paul W. (MR) (M69) 128 Mill Harbour Condo, Estale Golden Rock, St Croix US Virgin Island 00620. Dy: (809) Res: (809) 773-2021. W: Gail. B: Oct 14. Job: Controller, Coral Air Inc. Educ: Brown, BA. AHS.

HONEYWELL, Jerry L. (MR) (M84) (Jerry) 2268 South 3270 West, Salt Lake City, UT 84119. Dy: (801) 973-4300. Res: (801) 649-0155. W: Carol. Ch: Steve, Lynne. B: Jan 28. Job: Dir, Prod Admin & Mktg. E-Systems. Educ: Pierce Coll, AA Eng; Amer Grad U, MBA. Svc: USA. 2 yrs.

HOICKMAN, Stephen N. (MR) (M83) 1870 Clover Ridge Court, Cheslerfield, MO 63017. Dy: (314) 391-7090. Res: (314) 532-1134. W: Florence. Ch: Neal, Mindy. B: Mar 15. Job: ASE Contractor-Stg Electrosystems. Educ: NJIT, SCD. NYE, MEE; CCNY, BEE.

HOODENPYLE, James W. (MR) (M75) (Jim) Howell Instruments, 3479 West Victory Blvd., Fort Worth, TX 76107. Dy: (817) 336-7411. W: Dean. B: Jul 19. Job: Reg Sales Mgr. Svc: USAF. Ret: 64. 24 yrs.

HORNBERGER, Christopher (MR) (M83) (Chris) Texas Instruments, P.O. Box 660246, MS 3198, Dallas, TX 75268. Dy: (214) 995-1221. Job: Manager, Air Defense Systems, Business Development Div.

HORNER, L. M. (MR) (M78) (Jack) Bell Helicopter Textron, PO Box 482, Dept. 10, Ft Worth, TX 76101. Dy: (817) 280-2103. W: Patricia. Ch: Julia, John, Carter. Job: Pres. Educ: Yale, BS Ind Ad. Svc: USMC.

HORSEY, Kenneth E. (MR) (M64) (Ken) 145 Hilltop Circle, Trumbull, CT 06611. Res: (203) 375-1246. W: Jean. B: Sep 14. Svc: USAF. 3 yrs. HCA, AHS. Past Pres, Connecticut Chapter.

HOSPODOR, Andrew T. (MR) (M81) (Andy) RCA Corp., Automated Sys., P.O. Box 588, Burlington, MA 01803. Dy: (617) 229-3301. W: Rose Marie. B: Jan 30. Job: Div VP & Gen Mgr. Educ: Cornell, BME; Lehigh, MSME MBA.

HOTCHKISS, John F. (MR) (M81) Bendix Corp., 1000 Wilson Boulevard, Arlington, VA 22209. Dy: (703) 276-2180. Res: (703) 522-1461. W: Jerra. Ch: John, Jeffrey, Holland. B: Jun 26. Job: Dir Adv Rmgs, Allied Bendix Aerosp. Educ: USMA, BS; USC. Svc: USAF. 5 yrs. AUSA, AFA.

HOUSER, G. G. (MR) (M84) IBM-Federal Systems Div, Bodie Hill Road, Owego, NY 13827. Dy: (607) 751-3155.

HOZUVICKA, Frank (MR) (M83) Texas Instr. Equip. Group, 2501 S. Hwy 121, POB 405, Lewisville, TX 75067. Dy: (214) 662-4475. B: Jan 24. Job: Requirements Mgr, Intel Sys. Educ: UT Austin, BA; UNE, MS. Svc: USA. 6 yrs. AUSA, AFA.

HOWARD, J. William (MR) (M84) Cherry Textron, 1224 E. Warner Avenue, Santa Ana, CA 92707. Dy: (714) 545-5511. Job: Tech Svc Engr.

HOWARD, Mike (MR) (M82) King Radio, 9804 W 100th St, Overland Park, KS 66212. Dy: (913) 782-0400. Job: Dir Contracts. Educ: U of TX, BBA. Svc: USAF. 8 yrs.

HOWSE, William S. (MR) (M84) (Steve) 2017 Cunningham Dr, Ste. 205, Hampton,

H The 1984 Industry Team

VA 23666. Dy: (804) 838-0982. Res: (804) 424-3159. W: Ellen. Ch: Jason. B: Sep 11. Job: Def Field Sales Engr, Westinghouse Elec. Educ: USNA, BSME. Svc: USN. Ret: 81. 6 yrs. AHS, AUSA, AFA.

HUBBLE, Roger M. (MR) (M83) Beech Aircraft, 9709 E. Central, POB 85, Wichita, KS 67201. Dy: (316) 681-6335. Res: (316) 945-8501. W: Roberta. Ch: Brett. B: Nov 12. Job: Proj Admin. Educ: Wichita St, BBA.

HUGHES, Robert J. (MR) (M84) Honeywell, 17-2348, P.O. Box 312, Minneapolis, MN 55440. Dy: (612) 378-5548. Job: PM, Sys & Res Cen. AFA.

HUGHES, Stan M. (MR) (M77) (Stan) Hughes Aircraft, 5629 Princeton Ave, No. B, Columbus GA 31909. Dy: (404) 324-4198. W: Karen. Ch: Kimberly, Kelly. B: Jan 9. Job: Mgr, Columbus Reg Ofc. Educ: Humboldt St, BA. Svc: USN. 4 yrs. AUSA.

HUMFELD, Harold E. (MR) (M70) (Bus) Howell Instruments, 3479 West Victory Blvd., Fort Worth, TX 76107. Dy: (817) 336-7411. Res: (817) 924-9833. W: Jennie. Ch: Mary, Gary. B: Nov 15. Job: VP Mil Rmgs. Educ: UCLA, AB. Svc: USAF. Ret: 67. 30 yrs. AHS, AUSA, AFA.

HUTCHINSON, Corey S. (MR) (M84) 1240 Madison Ave, Prospect Park, PA 19076. Dy: (215) 522-2817. Res: (215) 588-0214. W: Michele K. B: Feb 13. Job: Cost Est, Boeing Vertol. Educ: Bloomsburg, Widener.

IERARDI, Philip N. (MR) (M74) (Phil) General Electric, Ste 520, 47 Perimeter Ctr East, NE, Atlanta, GA 30366. W: Suzanne. Ch: Catherine, David, James. B: Aug 27. Job: Mgr, So East Dist. Educ: NE U, BSME. Svc: USA. 5 yrs. AHS, AUSA, AFA. Past Treas, Southern California Chapter.

ITALIANO, Steven T. (MR) (M84) Boeing Vertol Co., Box 16858, Philadelphia, PA 19142. Dy: (215) 522-2296. Res: (215) 521-1634. B: Nov 27. Job: Prog Admin. Educ: Drexel U, BS.

JAGGERS, Joseph N. (MG) (M58) (Jim) Parks-Jaggers Aerosp, 6047 Bristol Pkwy, Culver City, CA 90230. Dy: (213) 641-8712. Res: (817) 780-1669. Ch: Joseph N. III, Susan Jill, Lisa, Jay. B: Jun 4. Job: Dir Consultant Svc. Educ: USMA, BS; GWU, MA. Svc: USA. Ret: 78. 28 yrs. AHS, AUSA.

JAY, Benny. (MR) (M77) (B) Tracor Aerosp, 6500 Tracor Lane, Austin, TX 78721. Dy: (512) 926-2800. Res: (512) 345-6420. W: Nancy. Ch: Cynthia, Debra, Bradley, Marcus. B: Mar 19. Job: VP for Planning & Spec Proj. Educ: Abilene, BS; Carnegie Mellon, MS; U TX.

JAY, Bruce C. (MR) (M75) Boeing Vertol, PO Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3575. Job: Mgr, Communications, Boeing Vertol. Past VP, Delaware Valley Chap.

JEFFERSON, Robert F. (MR) (M84) (Bob)

The 1984 Industry Team

JIBM-Federal Systems Div, 1755 Jeff Davis Hwy, 600, Arlington, VA 22202. Dy: (202) 833-6338. Job: Dir, Field Mktg.

JENSEN, David, (MR.) (M84) (Dave) Rotor & Wing Int'l, News Plaza/PO Box 1790, Peoria, IL 61656. Dy: (309) 682-6626. Job: Managing Editor.

JENSEN, Scott D., (MR.) (M84) (Scott) TSI, PO Box 43394, St Paul MN 55184. Dy: (612) 483-0900. Res: (612) 546-4056. W: Vicki. Ch: Doug, Brad. B: Jan 25. Job: Account Mgr. Educ: Iowa St. BS; St Thomas, MBA.

JOHNSON, George T., (CW3) (M79), 1919 North Spruce, Wichita, KS 67214. Dy: (316) 265-5354. Res: (316) 267-8475. W: Pamela. Ch: Van, Vickie, Wendell, Marcella. B: Jan 12. Job: Supv. Aerosp Logis Prog, Beech Airtel. Educ: Columbia Coll, BA. Svc: USA. Ret: 67. 20 yrs. USA.

JOHNSON, H. F. (Pat), (MR.) (M84) LTV Aerospace and Defense, P.O. Box 225907, Dallas, TX 75265. Dy: (214) 266-3983. Job: Mgr. Publ Affs & Customer Serv.

JOHNSON, Robert, (MR.) (M84) (Bob) Dynalene Corp, 1313 Doleys Madison Blvd., McLean, VA 22101. Dy: (703) 556-0480. W: Patricia. B: Sep 24. Job: Corp Dir of Mktg. Educ: BS, MBA.

JONES, James P., (MR.) (M82) (Jimmy) E-Systems, PO Box 23500, Tampa, FL 33630. Dy: (813) 885-7000. Res: (813) 391-487. W: Wanda. B: Jan 14. Job: VP & GM, Memcor Div. Educ: Auburn, BEE; CU of So FL. Svc: USAF. 4 yrs. USA.

JONES, Larry W., (MR.) (M84) (Larry) Pratt & Whitney, P.O. Box 2691, MS 702-52, W. Palm Beach, FL 33402. Dy: (305) 840-0889. Res: (305) 793-6998. W: Beverly. B: Jul 8. Job: PW3005 Cust Rqmts. Educ: USNA, BS. Svc: USMC. 10 yrs. AHS, USA.

JONES, Lynn W., (MR.) (M82) (Lynne) Lockheed Missiles, 2124 East St. Elmo Rd, Austin, TX 78744. Dy: (512) 446-6193. Res: (512) 452-8345. W: Elizabeth. B: Oct 9. Job: Deputy, RPV Sys, Austin Div. Educ: Texas A&M, BS. Svc: USAF. 4 yrs.

JONES, W.P., (MR.) (M60) (Bill) Boeing Vertol P3005, P.O. Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3436. Res: (215) 328-1098. W: Gerry. Ch: Casey, Dave, Bob, Rod, Vicki, Ty, Mel. B: Sep 24. Job: Dir, Hcpr Prog. Educ: U of MD, BS. Svc: USA. 4 yrs. AHS, USA, NEB.

JORIO, Aldo, (SIG) (M82) (Aldo) Costruzioni Aeron Auscassa, Casella Postale 480, 21013 Gallarate, Italy. Dy: (331) 229-4110. Res: (033) 126-2391. W: Silvana. Ch: Cristina. B: Dec 26. Job: Chief EH-101 Avionic Design. AHS.

JOSE, Dwayne K., (MR.) (M81) (Dwayne) Bell Helicopter Textron, P.O. Box 482, Dept. 03, Fort Worth, TX 76101. Dy: (817) 280-3156. Res: (817) 923-1234. W: Chris. B: Jul 22. Job: Sr VP Mktg. Educ: Iowa State, BS. Svc: USAF. 5 yrs. AHS, USA.

JOYCE, Donald, (MR.) (M82) 2611 Kirk Avenue, Broomall, PA 19008. Dy: (215) 522-3224. Res: (215) 356-6657. W: Claire.

Ch: Sharon, Christina. B: Dec 2. Job: Mgr Prod Spt, Boeing Vertol. Educ: Kingston England, BS. AHS.

JUSTICE, Donald E., (MR.) (M81) 790 Heather Court, Marion, IA 52302. Dy: (319) 395-4709. Res: (319) 377-9318. W: Sondra. Ch: Donna, Susan. B: Jun 6. Job: Mgr, Int'l Mktg, Rockwell-Collins. Educ: Wichita. Svc: USAF. 4 yrs. Past VP, Cedar Rapids.

KKKKKKKKKKKKKKK

KABACI, Mike, (MR.) (M79) Avn Contractor Employees, P.O. Drawer 399, Daleville, AL 36322. Dy: (205) 598-4540. Res: (205) 774-8074. W: Faye. B: Aug 2. Job: Dir of Tng. Ret: 69. 20 yrs.

KACHIGIAN, Sarkis, (MR.) (M60) (Rex) 553 Farview Avenue, Wyckoff, NJ 07481. Dy: (201) 765-7130. Res: (201) 891-5436. W: Anne. Ch: Susan, Steven, Margaret. B: Jan 9. Job: PM, Singer-Kearfott. Educ: Brown U, BSEE. Svc: USA. 3 yrs.

KALISTA, Clifford J., (MR.) (M60) P.O. Box 482, Ft Worth TX 76101. Dy: (817) 280-3182. W: Betty. B: Feb 11. Job: VP Int'l Mktg. Educ: St Norbert, BA. Svc: USA. Ret: 59. 17 yrs. AHS, USA, AFA. Past NEB.

KANE, Richard, (MR.) (M81) (Dick) E-Systems Memcor Div., P.O. Box 23500, Tampa, FL 33630. Dy: (813) 885-7000. Job: Dir, New Bus Dev. Ret: 80. 23 yrs.

KANE, Thomas, (MR.) (M80) (Tom) Grumman Aerospace, MS B05-5, Bethpage, NY 11714. Dy: (516) 575-7400. W: Jane. Ch: Abby, Thomas, Kristen. B: Aug 13. Job: VP Bus Dev. Educ: Manhattan Coll; Hofstra U; Columbia U. Svc: USN.

KAPLAN, David H., (MR.) (M82) Bell Helicopter Textron, Mercantile Ctr., No 2605, St. Louis, MO 63101. Dy: (314) 621-1661. Res: (314) 241-7023. W: Shirley. B: Jul 24. Job: Chf R&T Rqmts. Educ: RPI, BAE; Poly NY, MS. AHS, USA.

KAUFMAN, Alan S., (MR.) (M81) ITT Corp., 390 Washington Ave, Nutley, NJ 07100. Dy: (201) 284-3748. W: Iris. B: Nov 15. Job: Dir Engrg. Educ: NY U, BSEE MSEE.

KEATON, Jack L., (COL) (M59) (Jack) Sanders Associates, 95 Canal St, NCA 1-4240, Nashua, NH. Dy: (603) 885-4714. W: Fan. Job: VP Int'l Bus. Educ: Ohio St. MS; USC, MS. Ret: 79. 26 yrs. USA, AHS, AFA.

KEENAN, Thomas J., (DR.) (M80) (Tom) Avco Lycoming Div, 550 South Main St, Stratford CT 06497. Dy: (203) 385-3953. W: Lou Ann. Job: VP, Mil Eng Prog.

KEFFER, Thomas J., (MR.) (M82) (Tom) American Electronic Labs., P.O. Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Res: (215) 687-3757. W: Edna. Ch: Kathleen. B: Jun 8. Job: VP, Prod Mktg. Educ: PA; Drexel, BSEE. Svc: USN. 4 yrs.

KEITH, David L., (MR.) (M82) IGW Systems, 9000 Precision Dr, Indianapolis, IN 46236. Dy: (317) 898-9000. Res: (317) 852-5880. W: Gweneth. Ch: Eric, Kelly, Dianna. Linda. B: Oct 13. Job: VP Mktg. Educ: Purdue, BS. Svc: USAF. 3 yrs. AHS.

KELLY, Cornelius, (MR.) (M81) (Neil) Allied Bendix Aerospace, 1000 Wilson Blvd., Arlington, VA 22209. Dy: (703) 276-2136. W: Kathleen. Ch: Tom. B: Jun 15. Job: Asst Dir, Prod Spt. Educ: Baruch Coll, BS; Amer U, MPR. Svc: USN. 2 yrs.

KELLY, Kenneth J., (MR.) (M82) (Ken) Sikorsky Airtel, Ste 700, 1825 Eye St, N.W., Washington, DC 20006. Dy: (202) 785-7486. W: Julie. Ch: Steve, Diana. B: May 19. Job: Dir Gov't Bus. Educ: Notre Dame, BS; NYU, MS; UCONN, MBA. Svc: USMC. 22 yrs. AHS, USA, AFA.

KELLY, Michael, (MR.) (M83) (Mike) Avco Lycoming Div, 550 So. Main St, Stratford CT 06497. Dy: (203) 385-3047. Res: (203) 428-3783. W: Nancy. Ch: Mike, Mark. B: Aug 21. Job: Mgr, TSSL712 Engine Prog.

KELLY, Russell J., (MR.) (M82) (Russ) Canadian Marconi Company, 2442 Trenton Avenue, Montreal Que, Can H3P 1Y9. Dy: (514) 341-7630. W: Doris. Ch: Mark Steven. B: Jul 16. Job: Mgr, Avionics Tng. Educ: Sir George Williams. Ret: 65. 13 yrs.

KEMP, J. C., (MR.) (M83) Lorton Systems, 5500 Canoga Ave, MS 77, Woodland Hills, CA 91365. Dy: (818) 715-4005. Res: (818) 883-4511. W: Nancy. Ch: Elizabeth, Carter. B: Sep 15. Job: Mgr, Hcpr Prog. Educ: USNA, BS; Naval PG Sch, MS; GWU, MBA. Svc: USN. Ret: 73. 34 yrs. AHS.

KENNEDY, Art E., (MR.) (M82) (Art) 18 Eldon Ct, Bramalea, Ont, L6T 2B9 Canada. Dy: (416) 675-1411. Res: (416) 793-0046. W: Margot. Ch: Sean, Siobhan. B: Nov 20. Job: PVD Sales Mgr, Garrett Mfg Ltd. Educ: U of W Ontario, BSC. Ret: 68. 20 yrs.

KENYON, Norris E., (MR.) (M66) (Norrie) General Electric, 1000 Western Ave, MS 45208, Lynn, MA 01910. Dy: (617) 594-2000. Res: (617) 887-2012. W: Dorothea. Ch: Steve, Dave, Jeff, Terry Lynn. B: Jun 3. Job: Mgr, Lynn Mktg Comm. Educ: U of RI, BS. Svc: USA. 2 yrs. AHS, USA.

KILDAHL, Scott Jr., (MR.) (M84) (Scotty) TSI Inc., 500 Cardigan Rd-POB 64394, St. Paul, MN 55164. Dy: (612) 483-0900. Res: (612) 588-9087. W: Debra. B: Mar 15. Job: Prod Spt Engr. Educ: U of MN; Cleveland Inst of Elec. Svc: USAF. 8 yrs.

KIM, Hak Soo, (MR.) (M84) A.Q. Tailoring, Ltd, 35 Mu Gyo Dong, Jung-Ku Seoul Korea 100. Dy: 777-6111. Res: 323-5757. W: Young Sook. Ch: Woong, Ji Kun, So Kun. B: Nov 5. Job: Pres. Educ: Dong Kuk U.

KIMMITT, J. Stanley, (MR.) (M81) (Stan) Hughes Hcprts, 1225 Jeff Davis Hwy, #600 Arlington, VA 22202. Dy: (703) 553-3885. Res: (703) 538-2507. W: Eunice. B: Apr 5. Job: Asst to Pres. Educ: U of MT; UT St, BS; GWU. Svc: USA. Ret: 66. 25 yrs.

KING, Richard K., (MR.) (M82) (Rick) Westinghouse Elec., 1801 K St N.W., Washington, DC 20006. Dy: (202) 833-5052. Job: Del PR. Svc: USAF. Ret: 79. 25 yrs.

KINNEY, Robert D., (MR.) (M84) (Bob) Sperry Flight Systems, P.O. Box 9200, Albuquerque, NM 87119. Dy: (505) 822-5003. Res: (505) 296-2077. W: Anne H. Ch: William R, Michelle A. B: May 31. Job: Engrg Sec Head. Educ: KS State, BSEE.

KIRSCHMAN, Richard H., (MR.) (M82) 6241 Sandycreek Ct, Florissant, MO 63033. Dy: (301) 741-4949. W: Mary. Ch: Nicholas, Andrew, Phillip, Irene, Carol, Katherine. Job: Mgr St. Louis Ofc, Arinc Research. Educ: U of MI, BS; USC, MS. Svc: USAF. 7 yrs.

KISSINGER, Ronald A., (MR.) (M83) (Doc) E-Systems, PO Box 23500, Tampa, FL 33630. Dy: (813) 885-7000. Res: (813) 785-4254. W: Sally. Ch: Ronald, Kirsten, Ronda.

B: Jan 25. Job: Vp Mktg, Memoor. Educ: Wilmington, Bs. Svc: USA. 2 yrs. AUSA.

KLEIN, Dennis, (MR.) (M83) Sperry Flight Systems, P.O. Box 9200, Albuquerque, NM 87119. Dy: (505) 822-5540. B: Oct 26. Job: Mktg Rep. Educ: SIU, BS; Memphis State, MS. Svc: USA. AUSA.

KLINE, Charles R., (MR.) (M82) (Chuck) Westinghouse Elec. Corp., POB 1693, Ball-wash Apts., MS4700, Baltimore, MD 21203. Dy: (301) 765-4702. Res: (301) 465-0825. W: Doris. Ch: Melissa. B: Apr 25. Job: Mgr, Electro Optical Sys. Educ: U of MO, BS; Rolla, Svc: USA. 2 yrs.

KLINGLER, Dave J., (MR.) (M84) ESL Inc., MS 201, 495 Java Drive, Sunnyvale, CA 94088. Dy: (408) 838-2888. B: Aug 23. Job: Mgr, Adv Elint Sys. Educ: U of MI, BSEE & MSEE.

KLINKNER, Warren J., (MR.) (M84) Kaydon Corporation, 2860 McCracken Street, Muskegon, MI 49443. Dy: (616) 755-3741. Job: VP Sales. Educ: MI State U, BSME. Svc: USA. 2 yrs.

KOOB, Robert A., (COL) (M75) (Bob) Fort Campbell Bn, P.O. Box 528, Fort Campbell, KY 42223. Dy: (502) 439-4141. Res: (502) 885-6888. W: Pam. B: Aug 27. Job: VP & Mgr, Educ: U of MO, BS; Babson, MBA. Svc: USA. Ret: 74. 32 yrs. AUSA.

KOPCZYNSKI, Paul R., (MR.) (M83) (Duke) Ametek, US Gauge Div, 5320 Sylvester St, Philadelphia, PA 19124. Dy: (215) 257-6531. Res: (215) 744-7944. W: Maryellen. Ch: Donnamarie, Susan. B: May 6. Job: Mgr Mil Mktg. Educ: Temple. Svc: USAF, AHS, AFA.

KORANDA, Julie A., (MS) (M82) 2430 Brockman Avenue, Marion, IA 52302. Dy: (319) 395-4265. Res: (319) 377-3779. W: Ronald. Ch: Ronald, Reginald. B: Mar 1. Job: Mktg Admin, Rockwell Collins.

KOSTY, Sam, (MR.) (M83) (Sam) UCC, Hamilton Standard Div, Windsor Locks, CT 06096. Dy: (203) 285-1700. Res: (203) 653-6913. W: Barbara B. Ch: Paul K. Pam E. B: Nov 6. Job: VP, Prod Spt. Educ: Villanova, BSME.

KRIVICH, Robert E., (MR.) (M78) (Bob) Sanders Ass., 95 Canal St, Merr 152403, C.P. 2035 Nashua, NH 03061. Dy: (603) 895-2801. Job: Mgr, Electro-Optics.

KUCYK, Peter M., (MR.) (M81) Bendix Corp., 1400 Taylor Ave, Baltimore, MD 21204. Dy: (301) 321-5265. Res: (301) 577-6098. W: Joan. Ch: John, David. B: Jul 9. Job: Mktg Mgr, Envrnmntl Sys. Educ: USNA, BS, Svc: USN. 7 yrs. AUSA, AFA.

KUINTZLE, Charles, (MR.) (M79) Avco Lycoming Div, 550 South Main St, Stratford, CT 06497. Dy: (203) 345-2545. Job: VP, Bus Strategies. Educ: Drexel, BSME; Bridgeport, MSME.

KULIK, Leonard D., (MR.) (M69) (Len) Bell-1235 Jeff Davis, 906, Arlington, VA 22202. Dy: (702) 289-5856. Res: (703) 573-8819. W: Diane. Job: Dir, Bel Hcpr Textron. Educ: U of IL, BA. Cen. MI U, MBA. Svc: USA, AHS, AUSA, NEB. Treas & Past Sec, Washington DC Chap.

KUNDROTAS, Alexander P., (MR.) (M82) (Al) Daimo Victor Operations, 1515 Industrial Way, Belmont, CA 94002. Dy: (415) 594-2658. W: Violet. B: Apr 29. Job:

VP, Planning & New Bus Dev. Educ: Univ of IL, BSEE. Svc: USA. 2 yrs.

LLLLLLLLLLLLLLLLLLLL

LABANSKY, John L., (MR.) (M75) 46 Hannah Lane, Monroe, CT 06468. Dy: (203) 386-7028. Res: (203) 288-5152. W: Shirley. B: Nov 2. Job: Mktg Rep, Sikorsky. Educ: Central MI U, BS MBA. Svc: USA. 12 yrs. AHS, AUSA. VP & Past Sec, CT Chap.

LABAUGH, Kenneth, (MR.) (M80) (Ken) Box 3554, Nashua, NH 03061. Dy: (603) 885-2828. Ch: Kate, Karen, Beth. B: Aug 10. Job: Disd Tech Dir, Sanders Assoc. Educ: MIT, BSEE; NU, MSEE.

LADD, Charles B., (MR.) (M79) (Chuck) 1911 N Ft Myer Dr-St 801, Arlington, VA 22209. Dy: (703) 528-4080. Res: (301) 972-8608. W: Madeleine. Ch: Matthew, Carolyn. B: Sep 29. Job: Mgr Adv Plng, Perkin-Elmer. Educ: Cornell, BS. Svc: USA. 8 yrs. AUSA, VP, Wash. DC Chap.

LAGRACE, R.C. (MR.) (M80) H.R. Textron, 25200 N. Rye Canyon Rd, Valencia, CA 91355. Dy: (805) 259-4030. Job: Dir Mkt Sales. Educ: CA State, Northridge, BS.

LAKE, H.L., (MR.) (M68) (Sy) P.O. Box 171, Haddon Heights, NJ 08035. Res: (609) 546-1634. W: Barbara. B: Dec 25. AHS.

LAMB, Joe B., (MR.) (M78) (Joe) Northrop, 1000 Wilson Blvd., Arlington, VA 22209. Dy: (703) 525-6767. Res: (703) 370-0873. W: Joy. B: May 15. Job: Wash Opns, Electro-Mech Div. Educ: Omaha, BS; GWU, MSBA. Svc: USA. Ret: 73. 31 yrs. AHS, AUSA, AFA.

LAMBRECHTS, Michael E., (MR.) (M82) (Mike) 168 Miramar Avenue, Royal Palm Beach, FL 33411. Dy: (305) 783-3201. Res: (305) 793-3201. W: Maria. Ch: Brigitte. B: Sep 21. Job: Pres, Consulting & Representations, Inc. (COMAR). Educ: Tech Inst, BS; Ecole Sup, MS. 3 yrs. AFA.

LAMMERS, David G., (MR.) (M82) (Dave) 400 Collins Rd, N.E., MS 124-315, Cedar Rapids, IA 52498. W: Kathleen. Ch: Martin, Marybeth, Julie, Peter. Job: Fil Mgrl Prog Mgr, Collins Govt Avncs. Educ: Dayton, BSEE, AHS.

LAMPITOC, Richard T., (MR.) (M73) (Dick) Teleflex, Aero/Def Gp, P.O. Box 218, North Wales, PA 19454. Dy: (215) 699-4861. Res: (215) 584-6832. W: Nancy. Ch: Cathy, Darryl, Garen, Chris. B: Oct 6. Job: Sales & Mktg Mgr, Educ: Ursinus, Penn Stoc. Svc: USAF. 3 yrs. AHS, AUSA, AFA.

LANGEVIN, Ted, (MR.) (M82) Deutsch Co, ALC, 6 Liberty Cir, Newport News, VA 23602. Dy: (804) 595-2206. Job: Reg Mgr.

LANZA, Chuck, (MR.) (M84) Aviation Fuel Cells Int'l, 4278 Swinnea Road, Memphis, TN 38118. Dy: (901) 382-6734. Job: GM.

LARSON, Edward D., (MR.) (M84) (Ed) Hughes Aircraft, Bldg. 9, MS4137. Dy: (213) 616-1572. Res: (213) 376-8642. Job: Mgr, Educ: USMA, BS; NDSU, MS. B: Oct 31. Svc: USA. Ret: Cpt 6 yrs.

LATHAM, Michael E., (MR.) (M78) (Mike) Howell Instrmnts, PO Box 738, St. Charles MO 63302. Dy: (314) 946-6911. Res: (314) 925-2414. W: Sheila. Ch: Laurie, Steve, Paul, Scott. B: Apr 11. Job: Reg Mgr. Educ: Tarleton St. Svc: USN. 4 yrs. AFA.

LAW, Harold Y., (MR.) (M84) 8024 Walinda

L

The 1984 Industry Team

Drive, St. Louis, MO 63105. Dy: (314) 727-8833. Job: Dept Mgr, CACI, Inc. Educ: Washington U, DSC, AHS.

LAWSON, Thomas R., (MR.) (M83) (Tom) Lorak Electronic Systems, Ridge Hill, Yonkers, NY 10710. Dy: (914) 964-2568. W: Pat. Ch: Marc. B: Aug 17. Job: Engrg Dir, Educ: NYU, BA. Svc: USAF. 4 yrs.

LAY, Chris A., (MR.) (M79) Fairchild Weston Sys, 300 Robbins Lane, Syosset, L.I., NY 11791. Dy: (516) 34700, Baltimore, MD 21203. Dy: (301) 765-4702. Res: (301) 465-0825. W: Doris. Ch: Melissa. B: Apr 25. Job: Mgr, Electro Optical Sys. Educ: U of MO, BS; Rolla, Svc: USA. 2 yrs.

LEE, In Jae, (MR.) (M84) Sam-Chun Dang Ltd., 696-31 Yeongsam-Dong Gangnam-Ku Seoul, Korea. Dy: 555-2578. Res: 386-4056. W: Byung Ae An. Ch: Jeong Gu Lee. B: Oct. 23. Job: Dir of Fin and Gen Affairs.

LEE, Jeannette, (MS.) (M83) (Jen) Kolsman Instrument, 220 Daniel Webster Hwy, Merrimack, NH 03054. Dy: (603) 889-2500. Job: Mktg Admin, AUSA.

LEE, Robert, (MR.) (M84) LGM Corp., 9000 Precision Dr, Indianapolis, IN 46236. Dy: (317) 898-9000. W: Ann M. Ch: Robert E. III, Elizabeth H., Barbara Lee. B: Feb. 22. Job: Chm of the Bd, CEO. Educ: Dartmouth, BS; Amos Tuck, MBA.

LEFEBVRE, A. A., (MR.) (M82) (Bud) Brooks & Perkins, AAR, 12633 Inkster Rd, Livonia, MI 48150. Dy: (313) 522-2000. W: Ann. Ch: Kathryn, Patricia, Julie, Susan, Jeff, John. Jarry. B: Oct 18. Job: Sales and Contract Mgr, Educ: U of Detroit, BS, MBA. Svc: USN 2 yrs.

LEFF, Martin J. (MR.) (M72) (Marty) Avco Lycoming Div, 550 So. Main St, Stratford CT 06497. Dy: (203) 385-2351. Res: (203) 372-5675. W: Judith. Ch: Christopher, Jacqueline, Jill, Lisa. B: Feb 16. Job: VP Mktg & Prod Spt. Educ: CCNY, ME; U of Bridgeport, MA. Svc: USA. Ret: 56. 2 yrs. AHS, AUSA, AFA. Past Pres, CT Chap.

LEGERE, Robert C., (MR.) (M84) (Bob) TRW Defense Systems Group, 1000 Wilson Boulevard, Arlington, VA 22209. Dy: (703) 276-5710. Res: (301) 622-1543. W: Sherri. Ch: Lucinda, Robert, Jr., Susan, Leila, Wayne, James, Tracy. B: Apr 4. Job: Dir, ESL, Wash DC Ofc. Educ: U of MD. Svc: USA. Ret: 73. 21 yrs.

LELAND, H. Robert, (DR.) (M83) Calspan Corp, PO Box 400, Buffalo, NY 14225. Dy: (716) 631-6788. W: Loraine. Ch: Jane V. Robert W. B: Apr 18. Job: Pres. Educ: U of IL, BS MS PhD. Svc: USAF. 2 yrs.

LEMMIOS, Andrew Z., (MR.) (M78) (Andy) Kaman Aerospace Corp, Old Windsor Rd, PO Box 2, Bloomfield, CT 06002. Dy: (203) 242-7213. Res: (413) 567-7143. W: Sue. Ch: Karen, Keith. B: Nov 23. Job: Dir of Research & Tech. Educ: MIT, BS MS; UCONN, PhD. AHS.

LEONE, Nicholas, (MR.) (M78) (Nick) Emerson Electric, 8100 W Florissant, Sta 3673, St. Louis MO 63136. Dy: (314) 553-3673. Res: (314) 994-3047. W: Margaret.



The 1984 Industry Team

Ch: Sandra, Gayle, Michele. B: Jan 16. Job: Sr Sys Planner, ESD. Educ: RPI, BS; Cen MI U. MS. Ret: 78. 20 yrs. AUSA, AFA.

LEPORE, Charles J., (MR) (M83) (Chuck) Embry-Riddle Aero Univ, PO Box Dwr N, Ft Rucker, AL 36302. Dy: (205) 598-6232. Res: (205) 347-4960. W: Marie, Ch: Charles Jr, Dianne, Anthony, Debra. B: Jul 16. Job: Guff Reg Dir. Educ: U of NE Omaha, BGS; Troy St, MBA. Ret: 76. 20 yrs. AUSA.

LESHER, Walter F., (MR) (M76) Aero-Electric, Opns Mgr, 1410 Kona, Compton, CA 90220. Dy: (213) 603-9001. Res: (213) 541-6031. W: Gail, Ch: Larry, Laura. B: Jun 21. Job: Opns Mgr. Educ: El Camino, U of MD. Svc: USA. 2 yrs.

LESMEZ, Alvaro V., (MR) (M82) (Al) Pail Corp., 77 Crescent Beach Rd, Glen Cove NY 11542. Dy: (516) 759-1900. W: Betty Jane. Ch: Art, Sue. B: Apr 7. Job: Mgr APM/PLM Mktg Svc. Educ: Notre Dame, BS Masters. Svc: USAF. Ret: 45. 1 yr.

LEVEILLE, L. (MR) (M74) Canadian Marconi Company, 2442 Trenton Avenue, Montreal Quebec H3P1Y9. Dy: (514) 683-2252. Job: Avionics VP.

LEVINE, Donald S., (MR) (M67) 857 River Road, Fair Haven, NJ 07701. Job: Sperry. Educ: NE U. BS. Svc: USA. AUSA.

LEVINE, H. Jr., (MR) (M84) Gen. Electric, 1331 Pennsylvania Ave, NW, Washington, DC 20004. Educ: Syracuse. Svc: USAF.

LEVITAN, Arthur C., (MR) (M83) (Arthur) Loral Electronic Systems, Ridge Hill, Yonkers, NY 10710. Dy: (914) 964-2546. Res: (203) 762-7910. W: Judith. Ch: Jonathan, Justin. B: Mar 25. Job: Dir, Adv Sys & Tech. Educ: Cornell, BEE MEE.

LEWIS, J.B., (MR) (M78) (Jerry) Litton Systems, 5500 Canoga Ave, MS 28, Woodland Hills CA 91365. Dy: (818) 715-4321. W: Loretta. B: Dec 12. Job: Dir, Litton Sys. Educ: MIT, BSEE MSEE; UCLA, M. Eng.

LIEDTKE, S. R., (MR) (M83) (Raider) Canadian Marconi, 2442 Trenton Ave, Montreal Que H3P1Y9 Can W: Catherine. B: Sep 23. Job: Mktg Rep. Svc: USN 6 yrs. AUSA, AFA.

LINDEN, Arthur W., (MR) (M82) 39 Teapot Hill Road, Wilton, CT 06897. Dy: (203) 386-5300. Res: (203) 762-9724. W: Ruth. Ch: Kimberly, Heather. B: Jun 24. Job: X-Wing Proj Engr, Sikorsky Acraft. Educ: RPI, MS; UCONN, BS. AHS.

LITTLE, Keith, (MR) (M84) 550 W. Northwest Hwy, Barrington, IL 60010. Dy: (312) 381-2400. Job: Sales Engr, S. CAL. Educ: MO, BS. Svc: USMC. Ret: 69. 7 yrs.

LIVINGSTON, Randal P., (MR) (M84) (Randy) 635 Alston Place, Severna Park, MD 21146. Dy: (301) 667-5727. Res: (301) 544-1578. W: Marsha. Ch: Kris, Michele. B: Sep 7. Job: Marketing Manager, Westinghouse Corp. Educ: Bradley, BSEE; Johns Hopkins, MSEE.

LONG, Jim, (MR) (M83) (Jim) Emerson Electric, MS 3806, 8100 West Florissant, St. Louis, MO 63136. Dy: (314) 553-3806. B: Jan 18. Job: Pm. Educ: Parks Coll, BSAE;

Phillips U, MBA. Svc: USAF. 8 yrs. AHS, AUSA, AFA.

LOUD, Stewart N., (MR) (M83) 603 Solana Hills Court, Solana Beach, CA 92075. Dy: (619) 452-8338. Res: (619) 755-7905. W: Susan. Ch: Heather, Gordon. B: Sep 13. Job: VP, Exec/Tech Search, Spectrum Consultants. Educ: U of MI, BBA.

LOUIS, David R. Jr., (MR) (M78) (Dave) Turbomach, 4400 Ruffin Rd, San Diego, CA 92123. Dy: (619) 238-8639. Res: (619) 578-1229. W: Donna. Ch: David III, Dana. B: Mar 2. Job: Mktg Admin. Educ: USMMA, BS; So. IL, MBA. Svc: USN. Ret: 77. 20 yrs.

LOVELY, Richard H., (MR) (M61) 104 Drexel Court, Dothan, AL 36303. Job: Alabama National Guard.

LOVERA, Bruno, (ING) (M78) Costruzioni Aeronautica, Via Caldera 21, 20153 Milano Italy. W: Denise. Ch: Sergio, Marco. B: Feb 19. Job: Dir, Hcpr Div. Educ: Politecnico Di Milano, Aero Engrg. 1 yr. AHS.

LOWES, Jim, (MR) (M84) Parker Hannifin Aerospace, 18321 Jamboree Blvd., Irvine, CA 92715. Job: VP Mktg.

LOWRIE, Walter D., (MR) (M83) (Walt) Martin Marietta Orlando Aerosp, PO Box 5837, MP-100, Orlando, FL 32855. Dy: (305) 356-5788. Res: (305) 629-6266. W: Dorothy. Ch: Susan, Allison, James. B: Apr 7. Job: Pres. Educ: MIT, BS. Svc: AF 3 yrs.

LOWRY, Robert E., (MR) (M60) (Bob) Allison Gas Turbine Div, 1911 N. Ft Myer Dr, #800, Arlington, VA 22209. Dy: (202) 775-5042. Res: (703) 734-5776. W: B.J. Ch: Tom, Bill. B: Mar 23. Job: Dir, Wash DC Ofc. Educ: U of IL, BS. Svc: USA. Ret: 46. 3 yrs. AHS, AUSA, AFA.

LUNK, Walter A., (MR) (M79) (Walt) 1731 Charlton Court, Merrick, NY 11566. Dy: (516) 420-1280. W: Ann. B: Apr 25. Job: Mktg Mgr, No East Reg, Sperry Fit Sys, Defense Sys Div. Educ: Polytech of NY, BEE. Svc: USAF. 3 yrs. AHS, AFA.

LUTTRILL, W. Ray, (MR) (M75) Ft Campbell Bank, Planters, Box 728, Hopkinsville, KY 42240. Dy: (502) 886-5151. Job: Exec VP, Planters Bank & Trust. AUSA.

LYNN, R.R., (MR) (M75) Bell Helicopter Textron, PO Box 482, Dept. 81, Ft Worth TX 76101. Dy: (817) 280-2624. Job: Senior VP, Research & Engrg.

LYON, Ron, (MR) (M84) C/O Wellman Dynamics, 800 Park Avenue, Keene, NH 03431. Dy: (603) 357-2404. Job: Eastern Reg. Sales Mgr.

MMMMMMMMMMMM

MACAULAY, John D., (MR) (M83) 3989 Col. Glenn Hwy, Fairborn, OH 45324. Dy: (513) 426-3421. Job: Pres, Macaulay-Brown.

MACKINNON, Robert N., (MG) (M83) (Bob) Aerospace Hcpr, 2701 Forum Dr, Grand Prairie, TX 75051. Dy: (214) 641-3400. Res: (817) 457-9143. W: Nancy. Ch: William, Stephen, Thomas, Robert. B: May 25. Job: Pres. Educ: USMA, BS; GWU, MS. Svc: USA. Ret: 76. 31 yrs. HCA, AHS, AUSA.

MACLEOD, Angus, (MR) (M83) (Angus) Lucas Aerospace Limited, New Road, Solihull, W Midlands B913TX England. Dy: (021) 704-5171. Job: Mktg Svc Mgr.

MACNAB, Ron L., (MR) (M77) (Ron) Con-

trol Data Corp, PO Box 8508, Ottawa K1G 3M9 Ont Can. Dy: (613) 596-7046. Res: (613) 828-3528. W: Marilyn. Ch: Matt, Joe, Theresa. B: Nov 26. Job: Dir, Avionics Mktg, Comouting Devices. Ret: 64. 15 yrs.

MADEIRA, Rex H., (MR) (M59) (Rex) Northrop Worldwide Airt, PO Box 108, Lawton, OK 73502. Dy: (405) 353-2733. W: Pauline. Ch: Jon Tony. B: Sep 27. Job: Pres, CEO. Ed: Okmulgee JC; OK, BSME. AHS, AUSA.

MAINE, Vernon C., (MR) (M84) (Vern) Kollsman Instrument Co., Daniel Webster Highway S., Merrimack, NH 03054. Dy: (603) 886-2618. W: Joy. Ch: Chris, Brett, Jennifer. Job: Mktg Spec. Educ: Cowell Tech, BSEE. Svc: USA. Ret: 68. 4 yrs.

MALJANIAN, J.M., (MR) (M70) Chandler-Evans, Coli-Ceco-Charter Oak Bk, West Hartford CT 06101. Dy: (203) 236-0651. B: Dec 9. Job: VP Mktg. Educ: WPI, BSME; UCONN, MSME. Svc: USA.

MALTBY, Thomas A., (MR) (M81) (Tom) 22237/5 Erwin St, Woodland Hills, CA 91367. Dy: (818) 995-3655. Res: (818) 999-1367. W: Alma. B: Jan 11. Job: N. A. Rep, SFIM France. Svc: USN. Ret: 43.

MANAHAN, Donald P., (MR) (M80) (Don) Cobro Corp, 11510 Georgia Ave-Site 300, Wheaton, MD 20902. Dy: (301) 933-6950. W: Nora. Ch: Susan, Lisa. B: Feb 14. Job: Pres. Educ: St Louis, BS. Svc: USA. 2 yrs.

MANGRAM, Abb W., (MR) (M75) 6245 Wilmette Drive, Burke, VA 22015. Dy: (703) 521-5900. Res: (703) 250-5777. W: Marguerite. Ch: Andrea, Abb. B: Feb 24. Job: Gould, Inc. Educ: Prairie View A&M, BS. Svc: USA. 13 yrs. AUSA, AFA.

MARETT, Richard C., (MR) (M81) 303 22nd St, NE, Cedar Rapids, IA 52402. Dy: (319) 395-2361. Job: Program Mgr, Rockwell Collins. Educ: Michigan St, BA.

MARSH, James E., (MR) (M78) (Jim) Cobro Corp, PO Box 1927, Silver Spring MD 20902. Dy: (301) 933-6950. W: Susan. Ch: Angela, Robert. B: Sep 29. Job: Dir, New Prod Dev. Educ: Parks, St Louis; TCU, BS.

MARSHALL, Andrew W., (MR) (M84) (Andy) PO Box 518, Ft Rucker, AL 36362. Dy: (205) 598-3362. Res: (205) 792-4763. W: Glenda. Ch: William, April. B: Sep 15. Job: Internal Auditor/Contract Admin, Northrop Worldwide. Educ: Troy St, BS. AUSA.

MARTIN, Glen, (MR) (M84) Litton Systems, 5500 Canoga Ave, Woodland Hills, CA 91365. Dy: (818) 715-2390. Res: (818) 888-6227. W: Joy. B: Jul 3. Job: Dir, Adv Prod Dev. Educ: MIT, MS; FSU, MA.

MARTIN, M.L., (MR) (M67) (Marty) Hughes Aircraft, 7777 Bonhomme-Suite 1810, Clayton, MO 63105. Dy: (314) 882-6660. W: Marion. Ch: M.L.M., Jr, Michele, Joan, Anne, Elizabeth, Nancy. B: Feb 12. Job: Dist Mgr. Educ: USMA, BS. Svc: USA, USAF. Ret: 66. 23 yrs. AFA.

MARVIN, William F., (MR) (M79) (Bill) Litton Applied Technology, 1901 N. Moore St, #908, Arlington, VA 22209. Dy: (703) 522-2005. Res: (703) 476-1089. W: Loretta K. Ch: Julie, Kevin, Teresa, Pam, Rhonda, Bruce, William. B: Oct 31. Job: Dir, Field Opns. Educ: Delta U of Mich; McCoy-Johns Hopkins. Svc: USAF, USN. 4 yrs.

MASSENGILL, L. A., (MR) (M83) (Tony)



The 1984 Industry Team

Howeywell, 505 South Main St, Orange, CA 92667. Dy: (714) 558-7400. Res: (714) 637-0129. W: Barbara. Ch: Susan, Lawrence, Mark, Matthew. B: Oct 7. Job: Dir, Western Reg, Aerosp & Def. Educ: Upper Iowa, BA. Svc: USAF. 4 yrs. AUSA, AFA.

MASSIE, Philip E., (MR) (M80) 4220 Irving Pl, Culver City, CA 90230. Res: (213) 839-6498. W: Gladys. B: Sep 30. Job: Cons Engr, Aerospace-Elec. Educ: U of NE, BSEE; UCLA, CE. Svc: USA. Ret: 46. 5 yrs.

MATHISON, Dan, (MR) (M83) Facet Ent, Fluid Tech Grp, 45 Hartford Turnpike, Vernon, CT 06066. Dy: (203) 649-1175. W: Carol. Ch: Danielle, Jennifer. B: Sep 26. Job: Aerosp Mktg Mgr. Svc: USAF. 4 yrs.

MAZAKIA, Michael A., (MR) (M83) (Mike) Perkin-Elmer, 100 Wooster Heights Road, Danbury, CT 06810. Dy: (203) 797-0600. Res: (203) 426-0368. W: Phyllis. Ch: David, Michele. B: Nov 24. Job: VP & GM. Educ: Polytechnic Inst of Bklyn, BA; USC, MS.

McCLAIN, William R., (MR) (M84) (Bill) IBM-Fed Sys Div, 6000 Rockledge Dr, Bethesda, MD 20817. Dy: (301) 493-1585. Job: Dir, Mktg. AHS, AUSA, AFA.

MCCORMICK, Van N., (MR) (M83) PO Box 482, Dept. 35, Bell Helicopter Textron, Ft Worth, TX 76101. W: Marilyn J. Ch: Bret A., Brad A. B: Nov 12. Job: Sr Customer Spt Rep. Svc: USAF. 6 yrs.

MCCURDY, John D., (MR) (M82) ERAU Aero Univ, PO Box 98, Ft Campbell, KY 42223. Dy: (615) 431-4112. Res: (615) 362-3801. W: Arlene. Ch: Tami. B: Nov 5. Job: Cnslng Dir. Educ: ERAU BS; Murray, MS. Ret: 80. 24 yrs. AUSA. Past VP, ERAU.

MCDERMOTT, Paul, (MR) (M83) (Paul) Grumman Aero MS B20-05, Bethpage NY 11714. Dy: (516) 575-6094. W: Marie. B: Dec 28. Job: Army Mktg Mgr. Svc: USN.

MCDONALD, W. W., (MR) (M83) (Woody) Lockheed Austin, 2124 E St, Elmo Road, Austin, TX 78744. Dy: (512) 448-6337. Res: (512) 327-4564. W: Julia. Ch: Brian, Craig. B: Feb 11. Job: Mgr, RPU Sys. Educ: NM U, MA. Svc: USAF. Ret: 81. 21 yrs.

MCGILL, C.E., (MR) (M81) Teledyne Ryan, 2701 Harbor Drive, San Diego, CA 92138. Dy: (619) 291-7311. Job: Senior VP.

MCGUIRE, B. J., (MR) (M83) (B.J.) Hughes Aircraft, 1000 Wilson Blvd., Arlington, VA 22209. Dy: (703) 525-1550. Res: (703) 250-2530. W: Stella. Ch: Kelly. B: Aug 4. Job: Asst to Mgr Army Liaison. Educ: NM; USC, BS. Svc: USMC. 13 yrs.

McKINLEY, Charles H., (MR) (M81) (Chuck) LTV Aerospace and Defense, P.O. Box 225907, Dallas, TX 75265. Dy: (214) 266-7136. Job: VP, Hypervelocity Mat Sys.

MEEKER, John Ward, (MR) (M84) (John) 9201 San Mateo NE, Albuquerque NM 87113. Dy: (505) 822-5281. Ch: Shane Edvin, Kevin Lane. B: Aug 1. Job: Sr Proj Engr, Sperry Flight Systems. Educ: Ohio State, BSEE.

MELLIN, J. Patrick, (MR) (M59) Control Data, 1974 Goodrich Ave, St Paul, MN 55105. Dy: (612) 853-6639. Res: (612) 698-5971. W: Linda. Ch: Kathleen, Michael, Timothy, Christopher, Suzanne, James III. B: Apr 28. Job: Mgr, Str & Plan, Govt Sys Grp. Educ: USMA, BS; GA IT, MSEE; St Thomas, MBA. Svc: USA. Ret: 79. 21 yrs. AUSA.

MENG, Eugene D., (MR) (M89) (Gene) Teledyne, Ave Du Bois, St. Catherine 19, 1338 Lasne, Belgium. Dy: (602) 673-9988. Res: (602) 653-4594. W: Gisela. B: May 15. Job: VP Dir Europe Opns. Educ: Temple, At. Past VP, Bonn Area Chap.

MESSLETT, Stephen J., (MR) (M77) Perkin-Elmer, 100 Wooster Heights Rd, Danbury, CT 06810. Dy: (203) 797-6072. Res: (203) 355-3918. W: Melanie. Job: Dir, Tactical Prog. Educ: UB, Elect Engr; Cornell, Exec Dev Prog. Svc: USA. 3 yrs.

MICHAEL, A. Richard, (MR) (M82) (Dick) American Electr Labs, 1725 Jeff Davis Hwy, 204, Arlington, VA 22202. Dy: (703) 979-0930. Job: Grp Mgr, Army Programs.

MIGLIORATO, Eugene J., (MR) (M81) (Gene) PO Box 147, Grantville PA 17028. Dy: (717) 274-1407. Res: (717) 469-0018. B: Jan 9. Job: Field Engr, UH-1 Flight Simulation, Singer Link. Educ: RCA Inst, Bet. Svc: USA, USAF. 4 yrs.

MIKUSKY, James J., (MR) (M79) (Ski, Jimbo) Lear Siegler Astmco, PO Box 140, Trumbull, CT 06611. Dy: (203) 268-5988. W: Dorothy. Ch: Susan, Nancy, Judith, Catherine. B: Oct 10. Job: Reg Mgr, NE. Educ: Yale, BSEE. Svc: USMC. 4 yrs. AUSA.

MILES, Elliott R., (MR) (M79) Holiday Inn, 2916 Fort Campbell Blvd., Hopkinsville, KY 42240. Dy: (502) 886-4413. AUSA.

MILLER, Edward A., (HON) (M77) (Ed) Sanders Associates, Inc., Daniel Webster Hwy, South Nashua, NH 03061. Dy: (603) 885-2151. W: Mary Jane. B: Mar 5. Job: Exec VP. Educ: U of MD, BS; Chase Coll of Law, JD. Svc: USA. 7 yrs. AUSA.

MILLER, F. J., (MR) (M83) (Fran) Bell Helicopter Textron, P.O. Box 482, Fort Worth, TX 76101. Dy: (817) 280-2312. Res: (817) 274-6396. W: Lucille. Ch: Jeffrey, Gregory, Meg, Christina, Beth. B: Mar 25. Job: Dir, Spt Spt. AUSA.

MILLER, Jon J., (MR) (M84) (Jay) 1111 W. Mockingbird Lane, No. 400, Dallas, TX 75247. Dy: (214) 688-7709. Res: (214) 492-8111. W: Deborah A. B: Jun 6. Job: Mktg Rep, Hewlett, Educ: USMA, BS; Cen MI U, MA. Svc: USA. 6 yrs.

MILLER, Jon M., (MR) (M82) Kaiser Electronics, 2701 Orchard Parkway, San Jose, CA 95134. Dy: (408) 946-3000. Res: (415) 490-7176. W: Mary Kay. Job: Mktg Mgr, Hcptr Prog. Educ: U of IA, BA. Svc: USA.

MILLER, Robert J., (MR) (M84) (Jan) Lockheed Missiles & Space, 2124 East St, Elmo Road, Austin, TX 78744. Dy: (512) 448-5950. W: Sally Ann. B: Nov 30. Job: Mktg Rep. Educ: TX A&M, BBA; USC, MSSM. Svc: USA. 9 yrs.

MILLER, Ruth D., (MS) (M79) Fairchild Weston, 300 Robbins Ln, Syosset, LI, NY 11791. Dy: (516) 349-2206. H: Bryon T. Job: Dir Comm. Educ: UCLA, BS, AUSA, AFA.

MILLERING, Harold E., (MR) (M84) (Hal) TRW Defense Sys Grp, ESL, 495 Java Dr, Sunnyvale, CA 94086. Dy: (408) 743-6238. B: May 9. Job: Dir, ABN Recon Sys. Educ: U of MN, BSEE; U of Santa Clara, MSEE.

MISTAL, Peter C., (MR) (M84) Beech Aerospace Serv., Inc., 615 Stonewall Street, Jackson, MS 39213. Dy: (601) 362-0710. Job: Mgr, Actg/Computer.

MITCHELL, John, (MR) (M84) Ferranti

PLC, Silver Knowes, Edinburgh, UK EH4 4AD. Dy: 31-332-2411 Ext. 5760. Job: Sales Mgr, Nav Sys. Svc: RAF. Ret: 82. 32 yrs.

MOE, Timothy A., (MR) (M80) (Tim) Hughes Aircraft, 2222 Kalakaua Ave, #1403, Honolulu, HI 96815. Dy: (808) 928-0492. Res: (808) 968-8423. W: Lorry. Ch: Heather. B: Sep 11. Job: Asst Mgr, Honolulu Dist. Educ: CA Poly, BS; USC, MS. AUSA.

MOESCHL, S. F., (MR) (M83) (Stan) Honeywell, 2600 Ridgeway Pky, MS3947, Minneapolis, MN 55440. Dy: (612) 378-4595. W: Kathleen. Ch: Stanley, Melissa, Deborah, Karen. B: Mar 14. Job: VP & GM, Mil Avnocs Div. Educ: Purdue, BSEE. Svc: USCG.

MONACHELLO, Charles R., (MR) (M84) (Chuck) Singer-Link Flight Sim, Colville Road, Binghamton, NY 13902. Dy: (607) 772-4114. Res: (607) 754-6878. W: Joan. Ch: Joan, Robert. B: Jun 6. Job: Gen Mgr. Educ: NJ Inst of Tech, BS. MS.

MONSEES, William A., (MR) (M77) (Bill) ITT Corp, 390 Washington Ave, Nutley, NJ 07110. Dy: (201) 284-2835. Res: (201) 942-5558. W: Dolores. Ch: Bill, Paul, Cathie. B: Nov 23. Job: Engr Mgr, AN/ALQ-136(V1), ITT Avionics. Educ: NJIT, BS; Stevens, MS. Svc: USN.

MONTGOMERY, Earl B., (LTC) (M58) (Earl) Litton Systems, 480 L'Enfant Plaza, E, SW, Washington, DC 20024. Dy: (202) 554-2570. Res: (703) 979-2979. W: June. B: Mar 18. Job: Dir Army Regmts, Eastern Reg, Guidance & Control. Educ: U of OK. Svc: USA. Ret: 88. 20 yrs. AHS, AUSA.

MONTGOMERY, Michael E., (MR) (M84) (Mike) Cobro Corp, PO Box 457, Daleville, AL 36322. Dy: (205) 255-4875. Job: PM.

MOORE, C.W., (MR) (M80) (Wes) Messerschmitt-Bolkow-Blohm, P.O. Box 2349, West Chester, PA 19380. Dy: (215) 431-4150. Res: (215) 692-7527. W: Luisa. Ch: Wesley, Carmen, Richard, Nena, Philip, Lisa. B: Sep 22. Job: Pres, MBH Hcptr. Educ: Syracuse. Svc: USAF. Ret: 47. 5 yrs. HCA, AHS.

MOORES, James S., (MR) (M83) 219 Windridge, Collinsville, IL 62234. Dy: (314) 425-4121. Res: (618) 345-7491. B: Feb 5. Job: Aud Mgr, US GAO. Educ: BS, BA.

MORGENSON, Edgar O., (MR) (M82) American Electronic Labs, PO Box 552, Lansdale, PA 19446. Dy: (215) 822-2929. Job: Dir, Prog Mgt.

MORRIS, Mark W., (MR) (M84) Advent Systems, 355 Ravendale Dr, Mt. View, CA 94043. Dy: (415) 961-9400. W: Jo Anne. Ch: Laura, Alicia. B: Sep 26. Job: Grp Mgr, Strgc Sys. Educ: MO U, BS; San Jose St, MSEE; Santa Clara. Svc: USA. 6 yrs.

MORROW, Henry L., (MR) (M80) (Hank) Applied Tech Lab, USARL, SAVD-LATL-ATP, Ft Eustis, VA 23604. Dy: (804) 878-4130. Res: (804) 229-3710. Ch: Henry Jr, Cynthia, Mack, Carla, Theresa, Richard. B: Feb 20. Job: Chf, Prop Tech Area. Educ: Charlotte; GA Inst Tech BS BSAE. Svc: USAF. 3 yrs. AHS.

M

The 1984 Industry Team

MOSHER, Harold F., (MR) (M83) Beech Aero, 615 Stonewall St, Jackson MS 39213. Dy: (601) 362-0710. Job: Mgr Opns. Educ: Nthrup Inst Tech, BS. Svc: USN. 4 yrs.

MOSSER, R.R., (MR) (M79) (Rog) Allison Gas Turbine, PO Box 420, Indianapolis, IN 46206. Dy: (317) 242-2355. Res: (317) 839-8737. W: Nancy. Ch: Susan, Dean, Bruce, Diane. B: Apr 1. Job: Dir, Contracts, Licenses & Rel Affrs. Educ: GM Inst, BME; IN U. D.J. Svc: USN. Ret: 80. 23 yrs.

MURLEY, T. E., (MR) (M83) Lear Siegler, Astronics, 1911 Jeff Davis Hwy, BL 1, Arlington, VA 22202. Dy: (703) 920-7640. Job: Reg Mgr, Wash DC.

MURNANE, James A., (MR) (M81) (Jim) RCA Automated Sys, PO Box 588, Burlington MA 01803. Dy: (617) 229-3220. Res: (617) 696-7582. Job: Dir Mktg & Adv Plan. Educ: Boston, BS MBA, AHS, AUSA, AFA.

MURPHY, Desmond H., (MR) (M82) (Des) Olympus Corp, 4 Nevada Dr, Lake Success NY 11042. Dy: (516) 488-3880. W: Grace M. Job: Nat'l Sales Mgr, Indus Fib/Dpt Dept. Educ: Johns Hopkins, BS. Svc: USMC. 4 yrs.

MURPHY, Thomas V., (MR) (M77) (Tom) Rockwell Intl-MSD, 1800 Satellite Blvd, Duluth, GA 30136. Dy: (404) 476-6301. W: Carol. Job: VP & GM. Educ: U of WVA, BSBA & BSAA. AHS, AUSA, AFA.

MURRAY, Thomas E. II, (LTJ) (M84) (Tom) Lear Siegler, 3400 S. Airport Rd, Santa Monica, CA 90406. Dy: (213) 452-8885. Res: (805) 497-0156. W: Rae Ann. Ch: Michelle, Tommy. B: Nov 15. Job: Mgr, Army Sys, Astronics Div. Educ: USMA, BS; U of AZ, MS. Svc: USA. Ret: 83. 11 yrs.

MUSNITSKY, Jerry, (MR) (M84) (Mus) 8201 Henry Ave, P-30, Philadelphia, PA 19128. Dy: (215) 822-2929. Res: (215) 483-1974. B: Jan 19. Job: Mktg, Aero Div, AEL. Educ: GWU. Past VP, Monmouth Chap.

MUSORAFITI, Antoinette, (MS) (M83) (Tony) 41 Riordan Place, Shrewsbury, NJ 07701. Dy: (201) 747-8277. Job: VP, Engrg & Prof Svc Inc.

MUSORAFITI, Francesco M, (MR) (M80) (Moose) 41 Riordan Pl, Shrewsbury, NJ 07701. Dy: (201) 747-8277. Res: (201) 747-8277. W: Angelina. Ch: Antoinette. B: Oct 24. Job: Pres, Nunax Elect, Data & Prof Svc. Educ: USNA; USN Post Grad, BS. Svc: USN. Ret: 74. 20 yrs. AUSA, AFA.

MYERS, John R., (MR) (M80) (John) Avco Lycoming Div, 550 South Main St, Stratford, CT 06497. Dy: (203) 385-2717. Res: (203) 261-7849. W: Brenda. Job: VP & GM.

NNNNNNNNNNNNNNNN

NASH, Jack O., (MR) (M72) Chandler Evans Inc, Colt-Ceco-Charter Oak Bldg, West Hartford CT 06101. Job: President.

NATHAN, Robert L., (MR) (M75) (Bob) 7600 Teal Drive, S.W., Huntsville AL 35802. Dy: (205) 883-0660. Res: (205) 883-1922. W: Carolyn. Ch: Ken, Sharon. B: May 28. Job: Owner, Arlyn Assoc. Educ:

Aero U, BS AEE. Svc: USA. 2 yrs. AUSA.

NAWAR, Frank G., (MR) (M83) (Frank) Lor-al Elec Sys, Ridge Hill, Yonkers NY 10710 Dy: (914) 968-2500. B: Jan 27. Job: Sr Stf Eng. Ed: Polytech NY, BSSE MSEE. AUSA.

NEAL, Jeffrey A., (MR) (M78) 95 Beacon St, Greenfield, MA 01301. Dy: (413) 586-2330. W: Sally. Ch: Wendy, Brian. B: Apr 13. Job: Mktg Mgr, Kollmorgen, E-O Div. Educ: ERAU, BS. Svc: USA. 7 yrs. AUSA.

NELSON, Guerdon H., (MR) (M83) 1 April Ln, Lexington MA 02173. Dy: (617) 863-4593. Res: (617) 862-2256. Ch: Nan, Macy, Kirsten, Gretel, Chris. B: May 3. Job: Tact Sys Mktg Mgr, Honeywell. Ed: Harvard, BA, MBA. Svc: USA. Ret: 46. 4 yrs. AUSA.

NESSLE, Harry H., (MR) (M80) (Harry) Bendix Corp, PO Box 9327, Ft Lauderdale, FL 33310. Dy: (305) 928-3360. Res: (305) 731-2458. W: Mildred Mae. B: Nov 22. Job: Govt Sales Mgr, Bendix Air Transp Avnics. Educ: U of MN, BEE. AUSA, AFA.

NICOLL, James H., (MR) (M82) 795 Riekey Dr, Robins, IA 52328. Dy: (319) 395-3164. Res: (319) 393-3688. W: Vickie. B: Apr 7. Job: UHF/VHF Mktg, Rockwell Collins. Educ: Iowa St, BS. Svc: USA. 3 yrs.

NITIDO, Vincent, (MR) (M83) (Vin) Avco Lycoming Division, 550 South Main St, Stratford, CT 06497. Dy: (203) 385-3420. W: Corinne. Job: Mgr, T55 Spare Parts Prog. Educ: UNH, BSIE. Svc: USN.

NOKES, Robert E., (MR) (M81) (Bob) 8703 Pinal Pnt, San Antonio, TX 78239. Dy: (512) 653-5480. W: Carol. Ch: Thomas, Stephanie, Karel, Cecilia, Ted. B: Aug 1. Job: Pres/CEO, Helicopter Logistics Inc. Educ: U of Wash, BS; NYU, MBA; Harvard. Svc: USA. 10 yrs. AHS.

NOLLETT, Pasquale A., (MR) (M78) (Pat) P.O. Box 385, Red Bank, NJ 07701. Dy: (201) 747-7280. Res: (201) 389-3744. W: Joan. Ch: Steve, Mark. B: Oct 10. Job: Pres, Mktg Svc Assoc, Inc. Svc: USAF. Ret: 67. 21 yrs. AUSA, AFA.

NORWINE, Phillip C., (MR) (M58) (Phil) Bell Helicopter Textron, P.O. Box 482, Dept. C3, Fort Worth, TX 76101. Dy: (817) 280-3842. W: Jan. B: Mar 29. Job: VP, Mkt Dev. Educ: RPI, BA. Svc: USN. 4 yrs.

NYE, James, (MR) (M83) (Jim) General Electric, 1000 Western Ave, West Lynn, MA 01910. Dy: (617) 594-5319. Res: (617) 631-5584. W: Suzanne. Ch: Julia, Lisa, James, Richard. B: Dec 12. Job: Mgr GE2 Adv Prog. Educ: U of Toledo, BSME. AUSA.

OOOOOOOOOOOOOO

OAKES, Harold S. Jr, (MR) (M74) (Hal) No. 27 Derby Shire, Derby CT 06418. Dy: (203) 386-4114. Res: (203) 735-2556. W: Ruth. B: Sep 7. Job: Mgr Elec Sys Intg, Sikorsky. Ed: CO, BS; MIT, MS. Svc: USN. 4 yrs. AHS.

OBACH, Ronald M., (MR) (M84) (Ron) E-Systems, 776 Shrewsbury Ave, Tinton Falls NJ 07724. Dy: (201) 747-3101. W: Ellen. Ch: Debra Ann, Philip. B: Mar 9. Job: Mgr, Monmouth. Educ: USMA, BS; Harvard, MBA. Svc: USA. Ret: 78. 27 yrs. AUSA.

OCKER, Charles C., (MR) (M84) (Charlie) 2209 Via Del Norte Circle, Carrollton, TX 75006. Dy: (214) 462-2412. Res: (214) 245-4966. B: Jun 29. Job: Elec Design Engr, Texas Instr. Educ: U of Iowa, BSEE.

O'CONNOR, Thomas W., (MR) (M63) (Tom) Rockwell Int'l, S-1200, 1745 Jefferson Davis Hwy, Arlington, VA 22202. Dy: (703) 563-6653. Res: (703) 777-2435. W: Margie. B: Dec 28. Job: Mgr Eastern Reg, Collins Avionics. Educ: U of Tampa, BS; GWU. Svc: USA. Ret: 75. AUSA, AFA.

O'DARE, Robert, (MR) (M84) (Bob) Magnavox Govt & Ind Elect, 1313 Production Road, Fort Wayne, IN 46808. Dy: (219) 429-5565. Res: (219) 672-2870. W: Dottie. Ch: Cathy, Bob Jr, Tom, Beth. B: Nov 9. Job: Sr Mktg Mgr, Tactical Sys Div. Educ: BS, MBA. Svc: USMC. Ret: 79. 20 yrs.

O'DONNELL, Denis, (MR) (M81) Boeing Vertol, 1139 Olive St, Ste. 306, St. Louis, MO 63101. Dy: (314) 221-8822. Res: (314) 644-5770. W: Dorothy. B: Feb. Job: Mgr Contracts. AHS, AUSA.

O'DONNELL, Vincent C., (MR) (M63) (Vince) UTC Norden-1 Ind Way, A-9, Eaton-town, NJ 07724. Dy: (201) 389-3030. Res: (201) 531-8973. W: Dorothy. Ch: Ann, Betty, Michael, Richard, Patricia, Alice. B: Apr 3. Job: Mgr, Ft Monmouth Opns. Educ: Seton Hall, BS. Svc: USN. Ret: 46. 3 yrs. AHS, AUSA. Sec, Monmouth Chapter.

OEXMANN, Charles, (MR) (M83) Bell Helicopter Textron, P.O. Box 482, Fort Worth, TX 76101. Dy: (817) 280-3685. W: Mary. Ch: Loann, Andrew, Jill, Paul. B: Dec 16. Job: Mgr Mil Spares Admin. Educ: Hanover Coll, BA. Svc: USA. Ret: 55. 2 yrs.

OHLEHABER, Jack L., (MR) (M77) 9525 Blind Pass Rd, No. 403, St. Petersburg FL 33706. Dy: (813) 381-2000. Res: (813) 360-5918. W: Doris. Ch: Christopher, Diane, Steven. B: Oct 12. Job: Dir, E-Systems, ECI. Educ: U of FL, BS. AHS, AUSA.

OKEN, S., (MR) (M84) Telephonics Corp, 789 Park Ave, Huntington, NY 11743. Dy: (516) 549-6092. W: Manan. Ch: Steven, Cheryl, Bradley. B: Apr 11. Job: VP, Adv Dev. Educ: CCNY, BFR, MIT, MSEE.

OLCHAWA, Joseph, (MR) (M76) Litton Precision Gear, 4545 South Western Blvd, Chicago, IL 60609. Dy: (312) 847-4211. Job: Dir, Mktg & Engrg. Educ: IL Inst of Tech, BSME. HCA, AHS, AUSA, AFA.

O'LEARY, Arthur J. Jr, (MR) (M70) (A.J.) 7 Hannah Ln, Monroe, CT 06468. Dy: (203) 386-5930. Res: (203) 261-5935. W: Phyllis. Ch: Aaron. B: Mar 30. Job: Mgr Contracts, Sikorsky. Educ: Boston, BA; FL Inst of Tech; MS, UB. JD. Svc: USA. 9 yrs.

OLNEY, T. Dave, (MR) (M78) (Dave) 604 W. McNair, Chandler, AZ 85224. Dy: (602) 891-3095. W: Kathryn. Ch: Ann, Scott. B: Apr 1. Job: Mgr, Publ Affs, Hughes Hel. Educ: Colorado Coll, AB. Svc: USA. Ret: 72. 6 yrs. AHS, AUSA. Past Sec, SoCal Chap.

OLSEN, J.J., (MR) (M82) (Jij) Western Aircraft Maint., 4444 Aeronca St, Boise ID 83705. Dy: (208) 386-6565. Res: (208) 342-7181. W: Grace. B: Jun 22. Job: Pres. Ed: USNA, BS. Svc: USN. Ret: 77. 29 yrs.

ORAM, Peter, (MR) (M81) Grumman Aerospace Corporation, MS B11-25, Bethpage, NY 11714. Job: Sr VP.

OSSI, R.R., (MR) (M83) Avco Lycoming, 550 So Main, Stratford CT 06497. Dy: (203) 385-3542. Job: Mgr, Adv Tech Mktg. AHS.

OWEN, William M., (MR) (M71) Turbomach, 4400 Ruffin Road, San Diego CA

92123. Dy: (619) 238-5754. Res: (619) 272-1165. Job: Mgr, Adv Prog.

OZENICK, Phillip M., (MR) (M84) 4611 Spring Creek Road, Arlington, TX 76017. Dy: (214) 659-9123. Res: (617) 478-7636. W: Debbie. Ch: Katie. B: Jun 1. Job: Mgr Mktg, Bus Dev, Lucas Aero. Educ: Amer U, BSBA. Svc: USN. Ret: 76. 2 yrs.

PPPPPPPPPPPPPPPPPP

PADGETT, Richard J., (MR) (M82) (Dick) Bendix Corp, 211 Seward Ave, Utica NY 13503. Dy: (315) 793-1261. W: Claire Susan. Ch: Sharon Marie. B: May 12. Job: Dir of Mktg, Fluid Power Div. Educ: Newark Coll of Eng, BSEE; Seton Hall, MBA. AUSA.

PAHL, Kurt, (MR) (M84) Chandler Evans, Charter Oak Blvd, West Hartford, CT 06101. Dy: (203) 236-0651. Res: (203) 633-4477. W: Rosemary. Ch: Marie, Michael. B: Jun 25. Job: Mgr Mktg. Educ: U of Detroit, BSBA, AHS.

PALMER, Ronald L., (MR) (M83) (Ron) 95 Villa Teresa Ct, Hazelwood, MO 63042. Dy: (314) 234-4763. Res: (314) 739-6972. W: Jeanie Marie. B: Jul 29. Job: Sec Mgr, Prod Svc Tng, McDonnell — Douglas Astron. Svc: USA, 7 yrs.

PALUMBO, Joseph M., (MR) (M84) (Joe) IBM-Federal Systems Div, 1755 Jeff Davis Hwy, 600, Arlington, VA 22202. Dy: (202) 833-6897. Job: Mgr, LAMPS Mktg, AHS.

PAQUETTE, Dean R., (COL) (M57) (Dean) Control Data Corp, 1117 Priscilla Lane, Alexandria, VA 22308. Dy: (703) 998-4693. Res: (703) 780-9445. W: Shirley. Ch: Neta, Kingsley, Diane. B: Jul 15. Job: Mgr Def Planning. Educ: U of MD, BS; GWU, MS. Svc: USA. Ret: 76. 30 yrs. AHS, AUSA.

PARADIS, George A., (MR) (M84) (George) LFE, Fluid Controls Div, 100 Skiff Street, Hamden, CT 06514. Dy: (203) 281-8056. W: Carmela C. Ch: Elizabeth, Michael, Gregory. B: Dec 18. Job: Reg Sales Mgr. Educ: ME Maritime Acad; U of ME, BSME. Svc: USN. 21 yrs. AUSA.

PARKER, Deborah V., (MS) (M84) 1327 River Oaks, Flower Mound, TX 75028. Dy: (214) 995-1832. Res: (214) 393-8431. W: Skipper. B: Sep 6. Job: Systems Analyst, Texas Instruments. Educ: U of TX, BS.

PARNELL, Robert L. Jr., (COL) (M72) (Bob) Rockwell International, 1745 Jeff Davis Hwy, 1200, Arlington, VA 22202. Dy: (703) 555-6654. Res: (703) 360-1739. W: Mary. B: Jan 23. Job: Mgr, Army Accts, Def Electronics Optrs. Educ: Princeton, BS MS. Svc: USMC. Ret: 72. 30 yrs. AHS, AUSA.

PARR, Ralph L., (MR) (M77) Martin Marietta, 3855 Lucas & Hunt Rd, 219, St. Louis, MO 63121. Dy: (314) 363-8900. W: Loretta. Ch: Mgr, St. Louis Ofc. Educ: U of IL, BS. Svc: USN, AHS, AUSA, AFA.

PEASE, Edward C., (MR) (M80) (Ed) Avco Lycoming, 550 S. Main St, Stratford, CT 06487. Dy: (717) 327-7302. Res: (203) 481-0220. W: Louise. Ch: Carole, Cynthia, Edward Jr. B: Sep 17. Job: VP Engrg, Williamsport Div. Educ: UB, BSME.

PEDONE, Vito, (COL) (M82) (Vito) P.O. Box 2733, Arlington, VA 22202. Dy: (703) 548-9085. Res: (703) 979-1992. W: Geraldine. Ch: Stephen P. B: Jun 30. Job: Chm of Board, Port Dixie Imports Inc. Educ:

NWC; U of MD, BA; GWU, MS. Svc: USAF. Ret: 72. 31 yrs. AFA.

PELLETIER, David M., (MR) (M82) (Dave) Brooks and Perkins, AAR, 12633 Inkster Road, Livonia, MI 48150. Dy: (313) 522-2000. Res: (313) 522-5356. W: Evelyn. Ch: Michael, Robert, John-Paul. B: Oct 37. Job: Sr Sales Engr. Educ: SIU, BS. Svc: USAF. Ret: 78. 24 yrs. AUSA, AFA.

PERRA, Serafino S., (MR) (M83) (Sal) RCA, Automated Sys, PO Box 568, Burlington, MA 01803. Dy: (617) 229-5322. W: Mary. B: Dec 21. Job: Mgr Mktg. Educ: UNH, BSEE.

PERROTTO, Joseph, (MR) (M80) 31 Harvard Road, Fair Haven, NJ 07701.

PETERSON, John E., (MR) (M83) Hughes Aircraft Company, P.O. Box 7500, Hampton, VA 23666. Dy: (804) 872-8500. W: Marge. Job: Mgr Norfolk-Hampton Dis, Corp Mktg. Educ: U of MN, BS.

PETERSON, Robert A., (MR) (M80) (Pete) Dynalcraft Corp, P.O. Box 1107, Lakehurst, NJ 08733. Dy: (201) 657-0001. Res: (609) 654-0057. W: Dorothy. Ch: Jim, Penny, Bill, Gary. B: Mar 10. Job: Army Spt Div Mgr. Educ: NMSU, AB. Svc: USA. Ret: 66. 20 yrs. AUSA, AFA.

PETIT, Thomas W., (MR) (M65) (Tom) ERAU, Int'l Campus Star Rt, 540, Bunnell, FL 32010. Dy: (904) 673-3180. Res: (904) 767-5218. W: Patricia. Ch: Michael, Matthew. B: Sep 1. Job: Dir, Cntr for Ind Stud. Ed: ERAU, BS; Troy St, MS EDS. Svc: USA. Ret: 79. 26 yrs. AHS. Past Pres, ERAU.

PETTLER, Eugene D., (MR) (M82) (Gene) 6628 Lasaine Ave, Van Nuys, CA 91406. Dy: (213) 305-5191. Res: (818) 343-5323. W: Sandra. Ch: Lynne, Gail. B: Dec 21. Job: Proj Eng, Hughes Hcptrs, Culver City, CA. Educ: Geneva Heald, BSEE. Svc: USN. Ret: 46. 3 yrs. AHS.

PFLIEDERER, Kurt, (DIPL-ING) (M80) Messerschmitt-Bolkow-Blohm, Hcptr Mtl Acft, POB 801160, 8000 Muenchen 8 W Germ. Job: Managing Dir.

PHELPS, James, (MR) (M83) (Flip) James Phelps Ass., PO Box 24508, Creve Coeur MO 63141. Dy: (314) 569-7042. Res: (314) 434-0262. W: Florence. Ch: Mitchell, Terri, Douglas. B: Sep 28. Job: Pres. Educ: U of MD, BS. Svc: USA. Ret: 70. 23 yrs.

PHILLIPS, Harris W., (MR) (M80) Howmet Turbine, 604 Ruddiman, Muskegon MI 49445. Dy: (616) 744-0216. Job: GM. Educ: U of AL, BS. Svc: USN. 4 yrs.

PIERCE, John P. Jr., (MR) (M73) (Jack) Turbomach, 499 South Capitol St SW, 422, Washington, DC 20003. Dy: (202) 484-5080. Res: (703) 780-2758. Job: Mgr, Gov't Rel. Educ: USNA, BS Svc: USN. 5 yrs.

PIKE, Bruce, (MR) (M79) Howell Instruments, 3479 West Vickery Blvd, Ft Worth TX 76107. Dy: (817) 336-7411. Res: (817) 921-2970. W: Patricia. Ch: Paula, Bruce Jr, Steve, Emily. B: Aug 19. Job: Sr VP. Educ: Texas, BSME. Svc: USMC. 4 yrs.

PINCUS, Yale H., (MR) (M79) Hughes Helicopters, Centinela & Teale Sts, Culver City, CA 90230. Dy: (213) 305-3228. Job: Mgr, Mktg Comm.

PIPER, Stephen F., (MR) (M78) (Steve) Local Corp, 300 N. Halstead St, Pasadena CA 91109. Dy: (818) 351-5555. Res: (714) 673-7757. W: Janice. Ch: Jill Anna, Kristi

The 1984 Industry Team

Lynn. B: Mar 17. Job: VP Mktg, Electro-Optical Sys. Educ: UNH, BS; NE U. of CA. Svc: USA. 2 yrs. AHS, AUSA, AFA.

PLECHUS, G., (MR) (M84) (Greg) Aerospace Helicopter, 2701 Forum Drive, Grand Prairie, TX 75051. Dy: (214) 641-3512. Res: (817) 572-3938. W: Pamela. Ch: Scotty, Brandi, Lacey. B: Mar 13. Job: Engr. Educ: U of TX Arlington, BSBA.

POLLARD, William, (MR) (M74) (Bill) 406 Upland Place, Alexandria, VA 22301. Dy: (202) 785-7488. W: Rebecca. Ch: Aaron. B: Sep 24. Job: Dir, Int'l Bus Dev, Sikorsky Aclrt. Educ: Wake Forest, AGSIB MA. MBA. Svc: USA. 6 yrs. AHS, AUSA. NEB. Past Sr VP, Connecticut Chapter.

POOLE, Allan K., (MR) (M69) ULC, 151 Old Tavern Road, Orange, CT 06477. Dy: (203) 222-2110. Res: (203) 799-2151. W: Alice. B: May 28. Job: VP Prod Spt, Sikorsky. Educ: Princeton, BS MS; Harvard, MBA. Svc: USA. 2 yrs. AHS, AUSA.

POOLEY, Richard A., (MR) (M84) 135 Blackthorne Lane, Aston, PA 19014. Dy: (215) 522-3450. Job: Field Svc Engr, Avco Lycoming Div.

POWELL, Rayner C., (MR) (M81) (Ray) 466 Derby Millford Road, Orange, CT 06477. Dy: (203) 385-3194. Res: (203) 799-2606. W: Lorna Joan. B: Oct 11. Job: TS3755 Cust Svc Mgr, Avco Lycoming. Educ: Willesden-Hendon, London.

PRESTON, B. Dayton, (MR) (M84) P.O. Box 55, Columbus, GA 31902. Dy: (404) 324-3544. Res: (404) 323-8844. W: Terry. Ch: Ben. Dayton. B: Feb 4. Job: Pres, Columbus Baseball Inc. Educ: Auburn. Svc: USA. 2 yrs. AUSA.

PRICE, George, (MR) (M73) 79 Russel Dr, Guilford, CT 06437. Dy: (203) 386-6899. Res: (203) 453-9197. W: Ruth. Job: Mgr, New Prod Dev, Sikorsky. Educ: NYU, BS MS. Svc: USAF. 4 yrs. AHS, AUSA.

PROCH, John E., (MR) (M73) 90 Washington Ave, Seymour CT 06483. Dy: (203) 222-2329. Res: (203) 888-6886. W: Phyllis. Ch: Edward, Sandra. B: Dec 20. Job: Publ Mgr, UH-60A Tech Pub. Svc: USN. 6 yrs.

QQQQQQQQQQQQQQ

QUINN, Carey K., (MR) (M82) (CK) Westinghouse Elec. Corp., 8505 Overbrook Road, Fairfax, VA 22031. Res: (703) 573-8498. W: Martha. Ch: Bruce. B: Dec 6. Job: Dir, Army Prog. Educ: USNA, BS. Svc: USN. 4 yrs. AHS, AUSA.

QUINN, John K., (MR) (M83) (John) USATLANT, AVRADCOM, ATTN DAVDL-ATL-ASW, Fort Eustis, VA 23604. Dy: (804) 678-2772. Job: Cdr.

QUIRK, Thomas G., (MR) (M82) Westinghouse, 920 Elridge Landing Rd, Linthicum, MD 21090. Dy: (301) 765-3966. B: Jan 23. Job: Mktg Comm. Ed: Loyola, AB.

RRRRRRRRRRRRRR

RAJALA, Ernest A., (MR) (M83) (Ernie) 10303 Kingswood Cir, Greenville TX

BME, AHS, AUSA. Past Pres, Conn. Chap.

SALHANI, M. (MR) (M79) Canadian Marconi, 2442 Trenton Ave, Montreal Quebec H3P 1Y9. Dy: (514) 341-7630. Job: Prod Mgr. Educ: McGill, BS MBA.

SANDERS, Thomas L. (MR) (M84) P.O. Box 249, Bell Hcpr Reg Ofc, Daleville, GA 36322. Dy: (205) 598-9459. W: Janice. B: Feb 9. Job: Mgr Mill Rm'ts, SE US. Educ: Auburn, BS. Svc: USA. 4 yrs. AHS, AUSA.

SANDFORD, John (MR) (M79) (John) De-Havilland Aircraft Ltd, Garratt Blvd, Downsview Ont M3K 1Y5 Can. Dy: (416) 633-7310. Res: (416) 360-6465. W: Shirley. Ch: Gina, Bradley. B: Jul 9. Job: Pres & CEO. Educ: Cranfield Inst of Tech, MSC Aero.

SARLES, Douglas (MR) (M73) (Doug) 20 Woonsocket Ave, Shelton CT 06484. Dy: (203) 384-7877. Res: (203) 736-0500. W: Dorothy. Ch: Gail, Douglas, Donna, Linda. B: Feb 13. Job: Mgr, NE Svc Cen, Sikorsky. Svc: USAF, AFA.

SATHYAKUMAR, R. (MR) (M84) TSI Incorporated, 500 Cardigan Rd-POB 64934, St Paul, MN 55164. Dy: (612) 483-0900.

SATTERWHITE, James J. (MR) (M63) (Jim) Sikorsky, No Main St, Stratford, CT 06860. Dy: (203) 386-4191. Res: (203) 245-7955. W: Nancy. Ch: Michael, Dana. B: Feb 6. Job: PM, SH-60B Seahawk. Educ: USMA, BS; MIT, MS Svc: USA. Ret: 80. 21 yrs. AHS.

SAVENELLI, Louis P. (MR) (M83) (Lou) Avco Lycoming, 550 So Main St, Stratford CT 06497. Dy: (203) 385-2753. W: Virginia. Job: Mgr, Mktg Comm. Educ: UNH, BA; Dartmouth, MA Svc: USMC. 3 yrs.

SAWICKI, James J. (MR) (M83) (Jim) IBM Corporation, Boodle Hill Road, MD 0154, Owego, NY 13827. Dy: (607) 751-5187. W: Nancy. Ch: Dan, Mark, Brian, Amy. B: Sep 30. Job: Mktg Rep. Educ: Siena Coll, BS.

SAWYER, Mark (MR) (M84) Rediffusion Simulation, 3113 Lawton Rd, No. 135, Orlando, FL 32825. Dy: (305) 398-3823. Res: (305) 282-7156. W: Ann. Ch: Chip. B: Sep 25. Job: Mgr Govt Sales, Eastern Reg. Educ: USNA, BS. Svc: USN. 11 yrs. AUSA.

SCHATZ, William H. (MR) (M83) (Bill) Boeing Vertol, Box 16858, Philadelphia, PA 19142. Dy: (215) 522-3523. W: Diana. Ch: Lisa, Billy, Franny. B: May 11. Job: Prog Admin, PMO. Educ: Newman, BS; Delaware Tech, AS. Svc: USAF. Ret: 75. 4 yrs. Sec, Delaware Valley Chap.

SCHLENK, William F. (MR) (M72) (Bill) 392 McKinley Ave, Bridgeport, CT 06604. Dy: (203) 386-4780. Res: (203) 368-4635. W: Natalie. Ch: Natalie, James, Barbara, Billy, Leonard, Susan. B: Mar 2. Job: Sys Attribute Mgr, Black Hawk, Sikorsky. Educ: Fairfield, BS. 2 yrs. AHS, AFA.

SCHNAIDT, Loran C. (MR) (M80) (Loran) Turbomach, 11500 Olive Blvd, Ste 222, St. Louis, MO 63141. Dy: (314) 432-7880. Res: (314) 842-1372. W: Sandy. Job: Mgr, Cen Reg. Educ: USAFA, BS; Webster, MA. Svc: USAF. 6 yrs. AHS, AUSA, AFA.

SCHOTT, David M. (MR) (M77) Calspan Corp, POB 400, Buffalo NY 14225. Dy: (716) 631-6873. Job: PM, Arvin/Calspan.

SCHULER, Llewellyn C. (MR) (M78) (Lew) Kaman Aerospace, Old Windsor Rd., Box 2, Bloomfield, CT 06002-0002. Dy: (203)

243-7248. W: Jean. B: Nov 22. Job: VP Energy. Educ: U of WI, U of MN, AE. Svc: USA. 2 yrs. AUSA, AHS.

SCHULSTAD, George (BG)(M82) (George) Lucas Aerospace Ltd, 5215 N O'Connor-20 Fl, Irving TX 75039. Dy: (214) 869-0247. Job: VP, Aerosp Mktg. Educ: GWU, MBA; Harvard, AMP. Svc: USAF. Ret: 77. 26 yrs.

SCHULTZ, Richard P. (MR) (M79) (Dick) Control Data Corporation, 425 North New Ballas Road, St. Louis, MO 63141. Dy: (314) 993-2900. Res: (314) 625-3078. W: Mary. Ch: Rick, Lisa. B: Sep 3. Job: Mktg Mgr. Educ: Milwaukee Sch of Engr, BSEE. Svc: USN. Ret: 51. 4 yrs.

SCHWANHAUSER, R.R. (MR) (M81) (Swan) 1330 Laskey Rd, PO Box 6971, Toledo OH 43612. Dy: (419) 470-3339. Res: (419) 874-8085. W: Beverly. Ch: Robert, Mark. B: Sep 15. Job: Pres, Teledyne CAE. Educ: MIT, SB AE. Svc: USAF. 2 yrs. AFA.

SCHWARTZ, F.C. (MR) (M84) (Rick) Honeywell Inc., 1111 W. Mockingbird Lane, Dallas, TX 75247. Dy: (214) 688-7706. W: Esta. Ch: Gretchen. B: Oct 1. Job: Mktg Mgr, Aerosp & Def. Educ: Depauw U IN U, BS. Svc: USA. 6 yrs. AHS, AUSA, AFA.

SCHWEERS, Thomas B. (MR) (M77) (Tom) Perkin-Elmer Corp, 50 Hilltop Terrace, Red Bank, NJ 07701. Dy: (201) 747-5353. W: Margaret. Ch: Tom, Peggy, Debbie, Greg, Brian, Vickie. B: Nov 13. Job: Consultant. Educ: Princeton, Monmouth. Svc: USMC. Ret: 42. 4 yrs. AUSA.

SCHWEIGER, Bernie A. (MR) (M83) (Bernie) King Radio, 400 No. Rogers Rd, Olaf's KS 66052. Dy: (913) 782-0400. W: Jodi. Ch: Ryan, Kyle. B: Oct 31. Job: Mktg App Eng. Educ: KU, BSME. Svc: USA. 2 yrs.

SCURLOCK, R.S. (MR) (M81) (Bob) Teledyne Ryan Aeron., 2701 Harbor Dr, San Diego, CA 92138. Dy: (619) 291-7311. Res: (619) 222-2103. W: Liz. Ch: Cecelia, Brad. B: Feb 16. Job: VP Contracts, Pricing & Procurement. Educ: Air Was Coll, MS; GWU, MBA; USC, BS; OH St Svc: USAF. Ret: 79. 30 yrs.

SEAGER, Roger N. (MR) (M84) General Electric, 1000 Western Ave, MS24011, Lynn, MA 01910. Dy: (617) 594-3864. Res: (617) 526-7330. W: Judith. Ch: Angela. B: Apr 23. Job: Mgr, Black Hawk Pgm, AEBG. Educ: Southampton, BS.

SEAY, Oscar L., Jr. (MR) (M71) C/O Dynalcraft, 7014 Trans-AVIM, APO NY 09028. Dy: (002) 137-6479. Res: (062) 565-2471. B: Dec 29. Job: Supv, Acrlt Mech. Educ: Draught BC. Svc: USA, USAF. 6 yrs. Past VP, Morning Calif.

SELICK, Kim L. (MR) (M84) (Kim) Lear Siegler, 400 Airport Ave, Box 442, Santa Monica CA 90406. Dy: (213) 452-6853. Res: (213) 828-1024. B: Sep 16. Job: Mktg Mgr. Educ: USMA. Svc: USA. 6 yrs. AHS, AUSA.

SEMANICK, George J. (MR) (M82) Kollsman Instrument, Daniel Webster Highway 30, Merrimack, NH 03054. Dy: (603) 886-2374. Res: (603) 882-4151. Job: Dir Engr. Educ: Carnegie Mellon, BS; UNH, MSEE. Svc: USN. Ret: 57. 4 yrs. AUSA.

SEMCKEN, Duane (MR) (M83) 2 Auserehli Ct, Huntington, NY 11743. Dy: (516) 293-1660. Res: (516) 271-8307. W: Mary. Ch: Stephanie, Richard, Duane Jr, Allison. B: May 13. Job: GE. Ed: Plytch Inst of NY, BAEE.

The 1984 Industry Team

Svc: USN. Ret: 80. 38 yrs. AHS, AFA.

SHADDIX, W.J. (MR) (M77) (Pete) Northrop Worldwide Actl, P.O. Box 108, Lawton, OK 73502. Dy: (405) 353-2733. W: Madeleine. B: Jan 2. Job: VP & CDO. Svc: USAF. Ret: 72. 26 yrs.

SHADE, William L. (MR) (M82) (Bill) Litton-Armecorp, 5115 Calvert Rd, College Park, MD 20740. Dy: (301) 864-5600. Res: (303) 255-3218. Job: Mgr, Army EW Prog.

SHAFFER, John W. (MR) (M82) Avco Lycoming Division, Maint Opns Cen-60, Watson, Stratford, CT 06497. Dy: (203) 385-2842. Job: VP, Maint Opns Cen.

SHARPE, Henry H. (MR) (M77) (Hank) Rockwell Intl-MSD, 1800 Satellite Blvd, Duluth GA 30136. Dy: (614) 239-2590. Res: (614) 253-3433. W: Rita. Ch: Donald, Janet, Richard, Glenn, James. B: Mar 27. Job: Mgr, Int'l Opns. Educ: BSEE. Svc: USA. 3 yrs. AUSA.

SHAVER, John W. (MR) (M84) (Jack) McDonnell Douglas, 5301 Bolsa Ave, Huntington Beach CA 92647. Dy: (714) 896-4325. Res: (714) 998-0858. W: Bicki. Ch: Tom, Joan, Mark, Ann, Allison, Karrie. B: Oct 8. Job: Dir, Prog Dev. Svc: USN. Ret: 46. 4 yrs.

SHEPARD, Alexander D. (MR) (M83) Defence Helicopter World, 46 London End, Beaconsfield HP9 2JH Eng. Dy: (049) 467-7062. Job: Publisher.

SHERRE, Michael R. (MR) (M82) Wings, Inc. 501 N. Daleville Ave, Daleville, AL 36322. Dy: (205) 598-4270. W: Anita. B: Feb 21. Job: Retail Avn/Mail Order. AHS, AUSA.

SHINE, Daniel J. (MR) (M80) (Dan) Sanders Assoc., 95 Canal St, NCA 2-4247, C.P. 2035 Nashua, NH 03061. Dy: (603) 885-2970. Res: (617) 688-3502. W: Rosanne. Ch: Matthew, Jonathan. B: Feb 17. Job: Asst Dir, Int'l Bus Dev. Educ: Merrimack, BA; Georgetown, MS. AUSA.

SHIRAK, F.R. (MR) (M81) RCA, PO Box 588, Burlington, MA 01803. Dy: (617) 229-5200. Job: Dir, Automated Test Sys. Educ: Drexel, BSEE. Svc: USA. AUSA.

SHURKO, Paul (MR) (M83) Sikorsky Aircraft Div, UTC, North Main Street, Stratford, CT 06601. Dy: (203) 222-2116. Res: (203) 377-6456. W: Muriel. Ch: Peter, Kenneth, Linda. B: Mar 26. Job: VP, Support Svcs. Educ: St. Louis U, BS, AHS.

SIKORSKY, Sergei I. (MR) (M67) 443-B North Trail, Stratford, CT 06497. Dy: (203) 386-7043. W: Siegrid. Ch: Sergi Jr. B: Jan 31. Job: Admin Asst, Govt Prog, Sikorsky. Educ: U of Florence, BA; ERAU, Dr of Avn Mgmt. Svc: USCg. Ret: 46. 3 yrs. HCA, AHS, AFA. Past Sr VP, Bonn Area Chap.

SIMONS, J.H. (MR) (M79) Canadian Marconi, 2442 Trenton Ave, Montreal Quebec H3P1Y9. Dy: (514) 341-7630. Job: Exec VP, Electronics Group.

SMITH, Fred L. (MR) (M77) Kaman Aerospace, Old Windsor Rd, PO Box 2, Bloomfield, CT 06002. Dy: (203) 243-6313. W: Rosemary. B: Jun 12. Job: Pres. Educ:

S

The 1984 Industry Team

USMA, BS; RPI, MS, Svc: USA. 3 yrs. AHS.

SMITH, Gerald R. (MR) (M83) (Jerry) Rockwell Intl, MSD, 1800 Satellite Blvd., Duluth, GA 30136. Dy: (404) 476-6319. B: May 31. Job: Dir, Laser Prog. Educ: SDSU, BS; Ohio State, MBA.

SMITH, Harry J. (MR) (M68) 350 Grant Avenue, Eatontown, NJ 07724. Dy: (201) 544-1199. Res: (201) 544-9282. W: Marilyn. Ch: Patricia, Harry, Allison. B: May 26. Job: Dist Mgr Mktg, Singer Kearsfott. Educ: BA. Svc: USA, AUSA, VP, Monmouth Chapter.

SMITH, Michael R. (MR) (M84) (Mike) Aviation Fuel Cells Intl, 4278 Swinnea Road, Memphis, TN 38118. Dy: (901) 362-6734. Job: Sales Mgr.

SMITH, R. Michael (MR) (M83) (Mike) Midland-Ross Grimes, 550 Rte 55, PO Box 247, Urbana OH 43078. Dy: (513) 652-1461. W: Katie. Ch: Laurie, Christopher. B: Jan 31. Job: Dir Mktg. Educ: OSU, BSAA.

SMITH, Russell H. (MR) (M84) (Russ) Harris Corporation, PO Box 94000, MS 101/1082, Melbourne, FL 32902. Dy: (305) 727-5560. W: Vicki. Ch: Jay, Scott. B: Jun 22. Job: Mgr, Adv Avionics, GAND. Svc: USA. Ret: 83. 20 yrs. AHS, AUSA.

SOEHNLEIN, John R. (MR) (M76) (John) 31 Old Miller Lane, Guilford, CT 06437. Dy: (203) 365-7029. W: Carol. Ch: Allison, Gregory, Barry. B: Aug 1. Job: Army Mktg Reg, Sikorsky, Educ: ACAD AERO, AAS BS; Polytech, MS; UB, MBA. Svc: USA. Ret: 76. AHS, AUSA, Past Treas, CT Chap.

SONGSTER, John D. (MR) (M83) Rockwell Intl MSD, 1800 Satellite Blvd., Duluth, GA 30136. Dy: (404) 476-6321. Job: Dir, Hellfire Prog. Educ: Purdue, BSEE; U of IA, MBA. Svc: USAF. 6 yrs.

SOREL, Donald E. (MR) (M77) (Don) 299 Villard Hill Dr, Westbury Manor, Chesterfield, MO 63017. Dy: (314) 291-5720. Res: (314) 469-1291. W: Linda. Ch: Donna Lyn, Scott. B: Apr 21. Job: Mid-west Reg, Pratt & Whitney. Educ: Bryant, BS; UB, MBA. AHS, AUSA, AFA.

SPENCER, David P. (MR) (M84) 3300 Castle Drive, Plano, TX 75074. Dy: (214) 995-1315. Res: (214) 422-4749. W: Seliglinde. Ch: Ernest, Roger, Karl. B: Jun 15. Job: Mktg, Texas Instruments. Educ: Wm Carey, BBA; Abilene Christian, MBA. Svc: USA. Ret: 79. 22 yrs. AUSA.

SPENCER, Fred J. (MR) (M78) (Fred) Rockwell International, 3200 E. Renner Road MS 460-302 Dallas, TX 75081. Dy: (214) 996-3698. Res: (214) 235-2105. W: Carolyn. Ch: Janet, Susan. B: Nov 20. Job: Mgr Mktg & Bus Dev, ABN Sys. Educ: OK St U, EE, MS, MSEE. Svc: 4 yrs. AFA.

SPENCER, Ronald D. (MR) (M84) (Ron) Grumman Aerospace, 820-005, Bethpage, NY 11714. Dy: (516) 575-2579. Res: (516) 564-8815. W: Dorothy. Job: Dep Dir Mktg.

ST PIERRE, Raymond J. (MR) (M79) Hughes Aircraft, 7777 Bonhomme Suite 1810, Clayton, MO 63105. Dy: (314) 862-6660. Res: (314) 394-2382. W: Martha.

Ch: Michelle, Julie, Jeannette, Raymond, Michael. B: Oct 28. Job: Asst Mgr, St Louis Dist. Educ: Bellaine, AHS. Svc: USMC. 4 yrs. HCA, AHS, AFA.

STALEY, Charles F. (MR) (M79) (Chuck) 3356 Cove Rd, Jupiter, FL 33458. Dy: (305) 460-6181. Res: (305) 746-7368. Ch: Teresa, Mark, Scott. B: Apr 13. Job: PM, Pratt & Whitney. Educ: U of KY, BS, AHS.

STAP, John, Jr. (MR) (M73) P.O. Box 6167, Huntsville, AL 35806. Dy: (205) 772-9646. W: Char. Job: Dir, Southern Reg., Martin Marietta Aerosp. Educ: U of MI, BSME. Svc: USN, VP, Tennessee Valley Chapter.

STARR, G. A. (DR) (M84) Aerospaciale Hcpr, 2701 Forum Dr, Grand Prairie TX 75053. Dy: (214) 641-3555. Job: Mgr Gov't Program Development.

STELTER, F.H. (MR) (M81) (Mike) RCA, Automated Sys, Route 38 Bldg 206-2, Cherry Hill NJ 08038. Dy: (609) 338-3000. W: Joanne. B: Oct 15. Job: VP Mktg, Gov't Sys. Dir. Educ: N'castn, BS, Svc: USN. 4 yrs.

STERN, Peter M. (MR) (M62) (Peter) Aviation Week, 2777 Summer St, 5th Flr, Stamford, CT 06905. Dy: (203) 372-9812. Res: (203) 374-7288. B: Dec 7. Job: Mgr Sales & Marketing/Budgettrack, Aviation Week & Space Technology. Educ: U of Rochester, BS. AHS, AFA.

STEUER, Raymond Q. (MR) (M74) Global Chemical Systems, 503 North Acorn St, Lake Havasu, AZ 86403.

STEVES, John W. (MR) (M82) (John) Daimo Victor Operations, 1090 Vermont Ave, NW 1100, Washington, DC 20005. Dy: (202) 289-5842. Res: (703) 278-8271. W: Hope. Ch: Thomas, Jeffrey, Joanne. B: Jul 17. Job: Dir, Wash Reg. Educ: U of ME, BSEE. Svc: USN. Ret: 46. 3 yrs. AFA.

STEWART, D.T. (MR) (M79) (Dave) Hal Corporation, 25200 N. Rye Canyon Rd, Valencia, CA 91355. Dy: (805) 259-4030. Res: (818) 996-0605. W: Dorothy J. Ch: Ann Marie, Francina, Margaret, Mary Pat, David, Charles, Paul, Catherine, Je'nel. Paul. B: Aug 14. Job: VP, Servcontrols. Educ: St Johns Bklyn; RPI, BSME. Svc: USN. 4 yrs. AHS.

STOFER, Gerald B. (MR) (M80) (Jerry) 1825 Eye St, NW, Ste 700, Washington, DC 20006. Dy: (202) 785-7479. Res: (703) 931-3750. B: Aug 16. Job: Wash DC Reg, Sikorsky, Educ: IA, BBA. Svc: USA, AHS, AUSA, AFA. Past VP, Wash DC Chap.

STONE, James H. (MR) (M78) (Jim) 22 Leonard Road, Lexington, MA 02173. Dy: (603) 885-3583. Res: (617) 861-9454. W: Marilyn. Ch: Vicki, Gary. B: Feb 5. Job: Dir, Plans & Anal., Sanders Ass. Educ: N'castn, CDRR. Svc: USA, AUSA, AFA.

STONE, Julia D. (MS) (M84) (Julie) Rotor & Wing Intl, News Plaza, Peoria, IL 61656. Dy: (309) 682-6626. Job: Adv Dir. Educ: N'westn, BA; Amer Gradsch Intl Mgt.

STORA, Michael J. (MR) (M82) 334 Morris Ave, Bonton NJ 07005. Dy: (201) 299-8321. Res: (201) 299-8321. Job: Bus Dev Mgr, Genrad Inc. Educ: CA W U, BSBA. Svc: USN. Ret: 75. 17 yrs. AHS, AUSA.

STRAVATO, A. G. (MR) (M63) (Dean) Bell Helicopter Textron, PO Box 31100, Amarillo TX 79102. Dy: (806) 335-1551. Res: (806) 355-8840. Ch: Michael, Anna. B: Aug 13.

Job: Chf Contracts. Educ: Boston U, AA AS BS. Svc: USA. 3 yrs. AHS, AUSA.

STUELPNAGEL, Thomas R. (MR) (M69) 1682 Rico Place, Palos Verdes Estates, CA 90274. Dy: (213) 373-2672. Res: (213) 373-2672. W: Shirley. Ch: Richard, John, Julie. B: Jun 23. Job: Consultant. Educ: U of CA, BS; U of VA, MS. Svc: USMC. 4 yrs. HCA, AHS, AUSA.

STUETZER, Mary L. (MS) (M79) Rockwell Intl-MSD, 1800 Satellite Blvd, Duluth, GA 30136. Dy: (404) 497-5168. Res: (404) 977-2832. H: F. John. B: Nov 13. Job: Manager, Customer Relations. Educ: Western MI U, AUSA, AFA.

STURDIVANT, Kenith R. (MR) (M81) (Ken) Rockwell Intl-MSD, 1800 Satellite Blvd, Duluth GA 30136. Dy: (404) 476-6315. Res: (404) 396-1439. W: Wilma. Ch: Candace, Camille. B: Jul 17. Job: Dir Intl Ops. Educ: TX A&M, BSEE; Natl Def U. Svc: USA.

TURNER, Joseph A. (MR) (M79) (Joe) 93 Lincoln Place, Walbridge, NJ 07463. Dy: (201) 785-5687. Res: (201) 652-3035. W: Pat. Ch: David, Melissa, Philip. B: Aug 6. Job: Mkt Mgr Acrtf Sys, Singer Kearsfott. Educ: NJ Inst, BS; Fairleigh Dickinson, MBA. Svc: USMC. Ret: 55. 3 yrs. AHS.

SUN, Cedric. (MR) (M82) (Cedric) Pall Corporation, Acft Porous, 30 Sea Cliff, Glen Cove, NY 11542. Dy: (516) 671-4000. Res: (516) 271-3774. Job: VP Mktg. Educ: Lafayette Coll, BSME. AHS.

SUNDING, Kenyon G. (MR) (M74) Lord Corporation, 1635 West 12th Street, Erie, PA 16512. Dy: (814) 456-8511. Res: (814) 833-5924. B: Jul 19. Job: Mgr Aerosp Sales. Educ: SDSMT, BSME; U of Pittsburgh, MBA. Svc: USA. 2 yrs. AHS, AUSA.

SUTHERLAND, Howard L. (MR) (M70) Sutherland Diver Svc, Ste 326, 4534 N Lindbergh, Bridgeton, MO 63044. Dy: (314) 731-0303. Res: (314) 878-2661. W: Vivian. Ch: Mark, Barbara, Mary. B: Jan 9. Job: Pres. Educ: U of KS; Purdue, Aeronautical Engineer. Svc: USA.

SWAN, Richard A. (MR) (M82) (Dick) Midland-Ross Grimes, 550 Rte 55, PO Box 247, Urbana OH 43078. Dy: (513) 652-1461. W: Mary Ann. Ch: Stephanie, Andrea. B: Sep 16. Job: Mgr, Mil Contracts. Educ: Cinn, BA. Svc: USA. 8 yrs. AUSA, AFA.

SWANSON, Vince. (MR) (M83) 1940 Lake Shore, Apt. 42, Oakland, CA 94606. Dy: (415) 595-1414. Res: (415) 451-2024. B: Dec 18. Job: Tech Publ Specialist, Daimo Victor. Svc: USN. Ret: 77. 20 yrs. AUSA.

SWEENEY, Robert F. (MR) (M82) (Bob) Honeywell, 9312 Kilby Glenn Dr, Vienna VA 22180. Dy: (703) 827-3850. Res: (703) 759-3342. W: Jo. Ch: Robert, Christine, Leslie, Dawn, Mona, Nicole. B: Nov 22. Job: Mgr Mktg Admin, Aerosp & Def. Educ: Dayton, BS; USC, MS. Svc: USA. Ret: 80. 20 yrs. AHS, AUSA. Past Pres, Delaware Valley Chap.

SWEET, Robert J. (MR) (M83) ABA Industries, PO Box 500, Pinellas Park FL 34290. Job: Pres, General Defense Sys Div.

SWINDELL, Brennon R. (MR) (M58) (Ray) Bell Helicopter Textron, Box 482, Dept. 14, Fort Worth, TX 76101. Dy: (817) 280-2288. Res: (817) 488-7789. W: Marty. Ch: Steven, Margenia, Bryan, Mitchell. B: Aug 16. Job: Dir US Gov't Mktg. Educ: OK

The 1984 Industry Team

AL 35801. Dy: (205) 539-9411. Res: (205) 883-4584. W: Karole. B: Apr 2. Job: Mgr, Huntsville Dist. Svc: USAF. 7 yrs. AUSA.

WATERS, John E. (MR) (M83) Dir, EW Lab, Delco-C, Ft. Monmouth, NJ 07703. Dy: (201) 544-3222. Res: (201) 747-9578. Job: Elec Engr, Elec Warfare Lab.

WATERS, Robert C. (MR) (M80) (Bob) 4615 Woodfield Rd, Bethesda MD 20814. Dy: (818) 765-1010. Res: (301) 493-8883. W: Joyce. Ch: Karen, James, Stephen, Michael. B: Apr 12. Job: Mktg Mgr, Bendix Electrodynamics. Educ: Monmouth, BS. Svc: USN. 8 yrs. HCA, AHS, AUSA, AFA.

WATKINS, Billy J. (MR) (M83) P.O. Box 396, Vandalia OH 45377. Dy: (513) 667-5119. W: Fran. Ch: Connie, Sandy, Terry. B: Sep 1. Job: Owner, Watkins Assoc. Svc: USAF. 4 yrs. AUSA, AFA.

WATKINS, Brock (MR) (M81) Emerson Electric, 8100 W. Florissant, St. Louis MO 63136. Dy: (314) 553-2825. Res: (314) 355-5596. Job: Mktg Mgr, Intl Prog. Elec & Space. Ed: ERAU, BS. Svc: USA, AUSA, AFA.

WATSON, Lee E. (MR) (M78) Chandler Evans, Coll-Coe-Charter Oak, W. Hrtf Cd 60101. Dy: (203) 236-0551. Res: (203) 633-2430. W: Janet. Ch: Terri, Holly. B: Oct 14. Job: Mgr, Sales Ad. Educ: U of MI, BS. RPI. Svc: USN. Ret. 46. 3 yrs. AUSA.

WEBBER, George E. (MR) (M83) Honeywell, Inc. MN17-3657. Dy: (612) 378-5936. Job: Director of Engineering.

WEDDING, Donald K. (DR) (M82) (Don) Photonics Technology, 6967 Wales Rd, Northwood OH 43619. Dy: (419) 696-0033. Res: (419) 841-7286. W: Mary Ellen. Ch: Carol Ann, Donald Jr, Mary, Daniel. B: Oct 28. Job: VO Mktg. Educ: U of K/T Toledo/Pitt L'ville, BS MS MBA JD. AUSA, AFA.

WEHR, R. H. (MR) (M84) (Bob) Aerospaceale Hcptr, 2701 Forum Dr, Grand Prairie TX 75051. Dy: (214) 641-3575. Res: (817) 460-6421. W: Janice. Ch: Melissa, Robert, Roger, Ryan, Ray, Marlene. B: Jun 18. Job: Dir, Prog/Proj, Educ: USCGA, BS USAF Inst of Tech, MSEE. Svc: USCG. Ret. 81. 24 yrs. AHS, AUSA.

WEICHSEL, Hans (MR) (M58) Bell Hcptr Textron, PO Box 482, Dept H-1, Ft Worth TX 76101. Dy: (817) 280-2111. Res: (817) 451-6374. W: Gillette. Ch: Hans Bradley, Herbert, Linda. B: Aug 25. Job: Sr VP & GM CSS Div. Ed: U of MI, BS, AHS, AUSA.

WEIDE, George J. (MR) (M83) 1729 So. 82nd St, Apt. 4, Tacoma, WA 98406. B: Oct 29. Job: Sys Field Eng Engineering Professional Services. Educ: U of Scranton, BS; Pac. Luth. U, MA. Svc. 15 yrs.

WENGER, Richard (MR) (M83) (Rich) 3045 Cherokee Lane, St. Charles, MO 63301. Dy: (314) 263-1137. Res: (314) 723-7597. W: Linda. Ch: Kevin, Kimberly. B: Sep 25. Job: Chl OMA Budget Sec, AVSCOM. Educ: KU, BS; SIU, MS. Svc: USAF. 4 yrs.

WENTZ, A. Robert (MR) (M84) (Bob) RCA, MS127-203, Moorestown NJ 08057. Dy:

(609) 778-3830. Res: (609) 547-4090. W: Claire. B: Sep 19. Job: Mgr, Adv Sys Dev. Educ: PA; Drexel, BS. Svc: USAF. 2 yrs.

WERNER, Richard E. (MR) (M83) (Dick) 5 Snijdersdreef, 1900 Overijse, Belgium. Dy: (322) 640-4878. W: Wilhelmina. Ch: Erika. B: Dec 2. Job: Dir European Reg, Martin Marietta Aerosp. Educ: PS St U, BS; St U of NY, MS; Rollins, MS.

WESLEY, Richard H. (MR) (M84) (Rich) P.O. Box 1171, Merchantville, N.J. 08109. Dy: (201) 686-4000. Res: (609) 663-0756. W: Marilyn. Ch: Richard, Karlyn. B: Sep 11. Job: Govt Mktg Spec Breeze-Eastern ERC Inc. Educ: No. MI U. Svc: AF 4 yrs.

WEST, David J. (MR) (M78) Bendix Corp, 2150 NW 62nd Street, Fort Lauderdale FL 33309. Dy: (305) 928-3912. B: Jul 23. Job: Mgr Govt Mktg. Educ: Syracuse, BS; SIU, MBA. Svc: 15 yrs.

WHITE, Earl J. Jr. (MR) (M82) (Whitey) Rockwell Intl, 1745 Jeff Davis Hwy, 1200, Arlington VA 22202. Dy: (703) 553-6611. Res: (703) 768-7820. W: Gloria. B: Dec 21. Job: Dir Govt Mktg, DEO. Educ: Shurtleff, BA. Svc: USA. 7 yrs.

WHITE, J. (MR) (M77) (Jim) ITT Corp, 390 Washington Ave, Nutley NJ 07110. Dy: (201) 284-2503. Res: (201) 825-8077. W: Martha Jean. Ch: James, Amy. B: Feb 23. Job: PM ALQ-136, Avnics Div. Educ: MI, MSEE. Svc: USAF. Ret. 76. 20 yrs. AFA.

WHITE, Steven D. (MR) (M84) (Steve) Avco Lycoming, 550 S. Main St, Stratford, CT 06497. Dy: (203) 385-2185. Job: ATE Prog Dir. Educ: Cornell, BME MME. AUSA.

WILFLEY, John D. (MR) (M84) (Jake) Singer-Link, Binghamton NY 13902. Dy: (607) 772-3122. W: Jeanne. Job: Dir, Mktg Svc, Flight Simulation Div.

WILKIE, James B. (COL) (M78) (Jim) Avco Lycoming, 701 B St, Ste 1300, San Diego CA 92101. W: Kate. Ch: James, Donald. B: Feb 14. Educ: Citadel, AN; WA, MBA. Svc: USA. Ret. 76. 22 yrs. Past Sr VP, CT Chap.

WILLIAMS, D. A. (MR) (M83) (Dave) E-Systems, Montek Div, 2268 S 3270 W, Salt Lake City UT 84119. Dy: (801) 973-4300. W: Carol. Ch: David A Jr, Jeffrey, Brad. B: Nov 19. Job: VP & GM. Educ: Utah St, BSEE. Svc: USA. 2 yrs.

WILLIAMS, John W. (MR) (M72) Bell Hcptr, Dept. 86, PO Box 482, Ft Worth TX 76101. Dy: (817) 280-3418. Res: (817) 280-3418. W: Bonnie Jane. Ch: Jennifer. B: Feb 14. Job: Sr Tst Ptl. Ed: Texas Wesleyan, BA. Svc: USA. 8 yrs. HCA, AHS.

WILLIAMS, Lawrence E. Jr. (MR) (M81) (Larry) 9 La Vida Via, Downingtown PA 19335. Dy: (215) 647-3935. Res: (215) 269-8698. W: Audrey. Ch: Ann, David, Lawrence III. B: Jul 23. Job: Sales, Wagner Wines. Educ: MD, BS. Svc: USA, USAF. 17 yrs.

WILLIFORD, James H. (MR) (M84) (Jim) Sperry, PO Box 9200, Albuquerque NM 87111. Dy: (505) 822-5355. W: Judy. Job: Mktg. Educ: U of TN, BSME; Golden Gate, MBA. Svc: USAF. 8 yrs.

WINTER, Thomas C. Jr. (DR) (M82) (Tom) Ball Aerosp Systems Dr, 1411 Jeff Davis Hwy, 804, Arlington VA 22202. Dy: (703) 521-1150. Res: (703) 971-4309. W: June. Ch: Thomas III, Catherine. B: Jun 19. Job: Mgr, Adv Tech Ping. Ed: GWU, MBA; UCLA,

PhD, MA; USMA, BS. Ret. 76. 20 yrs.

WITTHROW, Eugene A. (MR) (M84) Cherry Textron, 724 W. Main St, Union MO 63084. Dy: (314) 583-8475. Res: (314) 583-8475. W: Lois. Ch: David, Donald, Kathy. B: Jul 9. Job: Field Svc Mgr. Educ: Pittsburg St, BS; U of MO, Med. Svc: USA. 8 yrs.

WITT, Francis M. (MR) (M82) (Beau) McDonnell Douglas, PO Box 426, St. Charles MO 63301. Dy: (314) 925-4857. B: Aug 11. Job: Branch Mgr Mktg, Electrics. Educ: Troy St, BS. Svc: USA. 8 yrs. AUSA.

WOHL, Gerald (MR) (M82) (Jerry) 10330 Nightmist Ct, Cimblea MD 21044. Dy: (301) 997-1587. Res: (301) 997-1587. W: Joyce. Ch: Rose, David. B: Jul 6. Job: VP, Columbia Res Svc. Ed: Syracuse, BA. AUSA, AFA.

WOLFF, Warren (MR) (M84) Analytics, Inc, 766 Shrewsbury Ave, Tinton Falls NJ 07724. Dy: (201) 542-8383. Job: VP Mktg. Ed: CCNY, BEE; N'eastr, MSEM. AUSA.

WOLVERTON, James R. (MR) (M81) Honeywell (MN54-4018) 5100 Gambles Dr, St. Louis PK MN 55416. Dy: (812) 542-5563. Res: (812) 933-5296. Ch: Loren, Randy, Laurie, Eric, Alec. B: Feb 22. Job: Assoc Bus Dir, Acrlt & Miss Sys. Ed: USNA, BS; AFIT, MS; CMU, MBA. Svc: USAF, USN. Ret. 79. 24 yrs. AFA.

WOO, Chang Ho (MR) (M84) (Slowly) Seoul Trvl Svc, 192-11 1-Ka Eulchi-ro, Jung-Ku, Seoul Korea. W: Sook-Ja. Ch: Eun-Young, Eun-Hee. B: Jul 29. Job: Exec Dir. Educ: Kun-Kook, BE.

WOOD, Gerald F. (MR) (M84) (Jerry) PO Box 145, Newark Valley NY 13811. Dy: (607) 772-3456. Res: (607) 642-3483. W: Barbara. Ch: Jennifer, Heather. B: Jun 1. Job: Dir Mfg, Singer Link. Educ: SUNY Binghamton, MS, MA, BS. Svc: USA. 6 yrs.

WOOD, Gregory A. (MR) (M83) (Gregg) Box 2500 RM 2007, Daytona Beach FL 32014. Dy: (904) 257-3037. W: Madge. Ch: Alexa, Joel, Nicholas. B: Nov 7. Job: Mktg Mgr, Hcptr Sys. GE. Ed: ERAU, BS. Svc: USA. 4 yrs. AUSA.

WOOD, J.D. (MR) (M84) (Jimmy) POB 518, Ft Rucker AL 36362. Dy: (205) 598-6378. Res: (205) 347-9721. W: Virginia. Ch: Lamar, Greg. B: May 6. Job: Mgr Opns, Northrop Worldwide. AHS, AUSA.

WOODS, David L. (MR) (M65) (Dave) Coleville Rd, Binghamton NY 13902. Dy: (607) 772-3106. W: Elaine. B: Jan 3. Job: Dir Mktg, Army Pgm. Ed: Citadel, BSEE. Svc: USA. 3 yrs. AHS, AUSA, Pres, Link Chap.

WOODS, Robert M. (MR) (M83) (Bob) 7010 Surrey Dr NE, Cedar Rapids IA 52402. Dy: (319) 385-5910. Res: (319) 377-4568. W: Phyllis. Ch: Reid, David. B: Jul 7. Job: Mgr, Comm Svcs, Rockwell-Collins. Ed: Iowa St, BSC. VP, Cedar Rapids Chap.

WOOLNOUGH, James P. (MR) (M58) Sanders Assoc, 95 Canal St, CP 2035, Nashua NH 03061. Job: Pres. Fed Sys Sgrp.

WORM, Leroy L. (MR) (M76) 1422 Merrimac Tr, Garland TX 75043. Dy: (214) 995-1118. Res: (214) 840-1013. W: Ellie. Ch: Fred, John. B: Dec 24. Job: Eop Eop Mktg, TI. Educ: SMU, BSEE. Svc: USAF. 4 yrs. AHS, AUSA, VP, No Texas Chap.

WOSICKI, Walter J. (MR) (M60) (Walt) Martin Marietta, 6801 Rockledge Dr, Bethesda MD 20034. Dy: (301) 897-6616. Res:

(703) 250-4585. W. Judy. Ch: David, Carrie, Kim. B: Feb 21. Job: Dep Dir Army Prog. Educ: USMA, BS; USC, MS. Svc: USA. Ret: 59. 20 yrs. AHS, AUSA.

WRIGHT, P.E., (MR.) (M81) RCA, Automated Sys Div, Building 206-2, Cherry Hill, NJ 08358. Dy: (609) 338-5678. Job: Div VP & GM, Govt Sys Div. Educ: Cal Poly, BS; U of PA, MSME; Harvard, AMP.

WRIGHT, R.J., (MR.) (M79) Garrett Corp, 9851 Sepulveda Boulevard, Los Angeles CA 90009. Dy: (213) 417-6645. Res: (213) 541-7192. W: Suzanne M. Ch: Robert J., Pamela S., Jeffrey M. B: Sep 5. Job: Group VP, Sales & Svc. Educ: Lehigh, BSME. AHS, AUSA.

YYYYYYYYYYYYYYYYYY

YAGLINSKI, Joseph (MR.) M82 P.O. Box

34, Ridley Park, PA 19078. Dy: (215) 522-2676. Res: (215) 872-0493. W: Marion. B: Jan 12. Job: Manager of CH-47 Service, Boeing Vertol. Educ: Temple Univ. Ret: SSGT. 2 yrs.

YAMLIKOSKI, Paul J. (MR.) (M82) 3626 Alice Road, Toddville IA 52341. Dy: (319) 395-1986. Res: (319) 393-8898. Ch: Cathie, Andrew, Matthew, Paul. Job: Project Man, AN/ARC-186 Rockwell-Collins Government Avionics. Educ: U of Detroit, BSCE. Svc: USA, AUSA.

YOUNGERS, D.A., (MR.) (M78) Northrop Corporation, 1515 Rancho Conejo Blvd, Newbury Park, CA 91320.

ZZZZZZZZZZZZZZZZZZ

ZAUCHA, John C., (MR.) (M84) TRW Defense Systems Group, ESL, 495 Java

W The 1984 Industry Team

Drive, Sunnyvale, CA 94086. Dy: (408) 738-2688. Job: Project Manager EH-1X.

ZINCONE, Robert (MR.) (M83) (Bob) United Technologies Corp, Sikorsky Arclt, Stratford, CT 06601. Dy: (203) 386-4208. Res: (203) 386-3599. W: Irene. B: Apr 11. Job: Exec VP. Ed: Acad of Aeronautics; UB, BSME; Columbia Univ, MSEM. Svc: USA, USAF.

ZINK, Robert C., (MR.) (M78) (Bob) King Radio Inc, 400 North Rogers Road, Olathe KS 66062. Dy: (913) 782-0400. W: Annette. Ch: Alan, Laurie. B: Oct 8. Svc: USN. Ret: 64. 22 yrs. AUSA, AFA.

PROFESSIONAL PERSONAL LISTINGS OF INDUSTRY MEMBERS THAT WERE RECEIVED AFTER THE AUGUST 10TH CLOSING DATE.

AAKRE, Keith E. (MR.) (M84) Honeywell, 5100 Gamble Drive, St. Louis Park, MN 55416. Dy: (612) 542-5449. Job: Mktg Rep Aircraft and Missile Sys. Educ: SW St U (MN), BBA; Coll of St. Thomas, MBA; Wm Mitchell Coll, JD. Svc: USA.

COLLINS, Terry (MR.) (M84) (Hoser) Army Air Corps Store, 150 E. Dana St, Mt View, CA 94041. Job: Engr. Educ: UCF, BSBA. Svc: USA. Ret: 68.6 yrs.

FOKINE, Ted (MR.) (M82) (Ted SAAB- Scania Combitech AB, SAAB Instruments, Box 1017, S-551 11 Jonkoping, Sweden. Dy: T46(36) 194198. W: Ann. Ch: Pernilla, Nicholas, Michael, Hans, Klas. B:

Mar 8. Job: Mktg Mgr Adv Sys. Educ: NYU, BSCE, MSCE. Svc: USA.

HELBERT, Bruce G. (MR.) (M83) Dalmo Victor Operations, 3127 Rivera Way, San Ramon, CA 94583. Dy: (415) 595-1414. Job: Sr Research Scientist.

HOLUK, Steven K. (MR.) (M69) (Steve) 110-34 73rd Suite 1-E, Forest Hills, NY 11375. Dy: (212) 544-6784. Res: (212) 544-6784. W: Wanda. Ch: Stephen, John, Diane, Elaine. B: Mar 30. Job: Consultant, Energy Maintenance Corp. Svc: USA, 2 yrs. AHS.

JOHNS, Melvin (MR.) (M83) (Mel) Lockheed-Austin, 2124 E. St. Elmo Road,

Austin, TX 78744. Dy: (512) 448-6279. Res: (512) 255-5300. W: Louise. Ch: Jenny, Melody. B: Jan 15. Job: Prog Analyst, MSD. Educ: Weber Coll, U of UT, U of OK, BLS. Svc: USN.

MILLS, Keith (MR.) (M81) 3502 Laken Circle, Huntsville, AL 35801. Dy: (205) 539-9411. Res: (205) 881-6832. W: Ena. B: Jun 29. Job: Asst Mgr, Hughes Arclt Educ: U of VA, BS, ME. Svc: 3 yrs. AUSA.

WELDE, Donald J. (MR.) (M83) Emerson Electric Co., 8100 W. Florissant, Sta 2362, St. Louis, MO 63136. Dy: (314) 553-2362. Job: Sr VP Bus Dev Elect and Space Div. Educ: Drexel U, BS.

AN ALPHABETICAL LIST OF AAAA'S
100 INDUSTRY-CORPORATE MEMBER
FIRMS, AS OF AUGUST 2, 1984.
* DENOTES ASSOCIATE MEMBERSHIP

INDUSTRY MEMBERS

A.B.A. Industries, Inc.*
Aerospatiale Helicopter Corporation*
Aircraft Gear Corporation*
Allison Gas Turbine Division
American Electronic Laboratories, Inc.
Army Air Corps Store*
Avco Lycoming Stratford Division
Aviation Fuel Cells International, Inc.*
Beech Aerospace Services, Inc.
Beech Aircraft Corporation
Bell Helicopter Textron
Bendix Corporation
Boeing Company
Boeing Vertol Company
Brooks and Perkins*
Calspan Corporation*
Canadian Marconi Company
Casey Copley*
Chadwick-Helmuth Company, Inc.*
Chandler Evans Control Systems Division
Chelton, Inc.*
Cherry Textron*
Cobro Corporation*
Composite Structures Division, TRE Corp*
Consolidated Controls Corporation*
Construcciones Aeronauticas, S.A.*
Control Data Corporation*
Costruzioni Aeronautiche Giovanni Agusta
Dalmo Victor Operations
Daniels Manufacturing Corporation*
Dayton-Granger, Inc.*
Defence Helicopter World*
De Havilland Aircraft Of Canada, Ltd.
Deutsch Metal Components Division*
Dynatelect Corporation
Eaton Corporation, AIL Division*

Embra-Riddle Aeronautical University*
Emerson Electric Company
E-Systems, Inc.
Facet Enterprises, Inc., Fluid Tech Grp*
Fairchild Weston Systems, Inc.
Ferranti PLC*
Garrett Corporation
General Dynamics Corporation
General Electric Company
Global Chemical Systems, Inc.*
Gould Inc., Navcom Systems*
Grumman Aerospace Corporation
Harris Corporation
Honeywell Inc.
Howell Instruments*
Howmet Turbine Components Corp.
HR Textron, Inc.*
Hughes Aircraft Company
Hughes Helicopters, Inc.
IBM Federal Systems Division
International Aerospace Technologies*
ITT Corporation
Kaman Aerospace Corporation*
Keydon Corporation*
King Radio Corporation*
Kollsman Instrument Company
Leas Slegler, Inc., Astronics Division*
LFE Corporation, Fluid Controls Division*
Lifton Applied Technology*
Liton Systems, Inc.
Lockheed Missiles & Space Company
Loral Corporation
LTV Aerospace & Defense Company
Lucas Aerospace*
Magnavox Govt & Industrial Electronics
Marconi Avionics Limited*

Martin Marietta Aerospace
McDonnell Douglas Corporation
Messerschmitt-Boelkow-Blohm GMBH*
Midland-Ross Corp., Grimes Division*
National Aeronautic Association*
Northrop Corporation
Northrop Worldwide Aircraft
Olympus Corporation of America*
Pall Corporation*
Parker Hannifin Aerospace*
Parks-Jagers Aerospace Company*
Perkin-Elmer Corporation*
Photonics Technology, Inc.*
PCA, Automated Systems
Rediffusion Simulation, Inc.*
Rockwell International
Rotor & Wing*
Saab-Scania AB*
Sanders Associates, Inc.
Science Applications, Inc.*
Sensor Systems, Inc.*
Simula Inc.*
Singer Company
Spectrolab, Inc.*
Sperry Flight Systems
Talley Industries of Arizona, Inc.*
Teledyne Ryan Aeronautical
Teledyne Systems Company
Telephonics Corporation*
Texas Instruments Equipment Group
Tracor Aerospace*
TRW Defense Systems Group
TSI Incorporated*
Turbomach, Inc.
United Technologies Corporation
Westinghouse Electric Corporation
XMCO, Inc.*

KING



BROOKS & PERKINS
ADVANCED STRUCTURES
An A&P Company



LORAL
ELECTRONIC SYSTEMS



HUGHES
HUGHES AIRCRAFT COMPANY



Bell
Helicopter
TEXTRON



MARTIN MARIETTA



DEUTSCH



TELEDYNE
RYAN AERONAUTICAL

ITT



PHOTONICS
TECHNOLOGY



Lucas Aerospace



PERKIN-ELMER

RCA



ARVIN/CALSPAN
ADVANCED TECHNOLOGY CENTER

MBB

NORTHROP



Honeywell

FAIRCHILD WESTON
Schlumberger



Pilot's Perspective

(Continued from Page 21)

Mast Mounted Sight (MMS) displays, and communication information to the pilot through the touch of a button.

A **multi-function keyboard (MFK)** provides the interface between pilot and computer for various system functions such as: navigational waypoint entry for the **Attitude and Heading Reference System (AHRS)** and doppler systems; frequency selection for five radios (2-FM, UHF, VHF, HF); and Mast Mounted Sight operation. Previous video game experience will, no doubt, become a vital prerequisite for an OH-58D qualification.

New capabilities

The **television sensor (TS)** and **thermal imaging system (TIS)** provide a capability sorely lacking in previous scout aircraft and will give a significant edge in mission capability and execution to the OH-58D scout crew on the battlefield of the future. An accurate **laser/range finder (LRF)** will insure that targeting information is timely and enhance the combat integration of

scout and attack helicopters to detect and defeat enemy forces with mission systems heretofore unavailable.

The MMS, in itself, will demand a reassessment of current tactical doctrine for artillery adjustment based on drastically increased potential for first-round fire-for-effect and unaided TIS night artillery engagements. Other MMS features (including automatic target area and point tracking, laser offset navigation updates, and range findings) contribute to a combat system with tremendous potential as a "force multiplier."

The bottom line

So, what is the bottom line you say? Well, it's simply this. Finally, the U.S. Army has developed and is now testing an aircraft uniquely designed for the scout mission, complete with an engine free of overtemperature worries, a much-improved tail rotor which is 2 inches longer in chord and span than existing scout helicopter tail rotors and has a 39° pedal throw, and a responsive maneuverable 4-bladed main rotor system specifically constructed for today's NOE low level mission!

How do you spell scout relief? A-H-I-P!!! ■■■■

AHIP ANTENNAS — SOME YOU SEE, SOME YOU DON'T



*Dorne & Margolin has solved
the difficult problem for
antenna systems on the
OH-58D AHIP helicopter.*

*We can solve similar problems
for you...*

Contact us for details.

VHF/UHF COMMUNICATIONS

ARC 182

ARC 186

VOR/ILS

VOR

Marker Beacon

DME/Transponder

Glide Slope

HOMING SYSTEMS

dm ***dorne &
margolin, inc.***

2950 VETERANS MEMORIAL HIGHWAY • BOHEMIA, NEW YORK 11716

TEL. (516) 585-4000

TWX 510-228-6502

THE PACESETTERS IN ADVANCED AVIONICS.



AIR-TO-AIR STINGER ON AHIP

BY LIEUTENANT COLONEL LEO J. ASSELIN

IN August of 1982 the Army formalized a requirement for a weapon system which provides Army Scout Helicopters with the capability to counter threat aircraft during the conduct of offensive and defensive operations. To satisfy this requirement in the near term the Army intends to qualify the existing **Man-Portable Air Defense Weapon System (MANPADS)** STINGER missile on the OH-58C and OH-58D to provide the desired self-protection.

MANPADS STINGER is a fielded system, highly effective against both fixed and rotary wing aircraft. Demonstrations of the concept of using the STINGER missile in the air-to-air role have been highly successful, and adaptation of STINGER to the helicopter launch platform is primarily an integration effort.

Planning ahead

In anticipation of the above requirement, the Army incorporated space, weight, and power provisions for a potential air-to-air missile as part of the **Army Helicopter Improvement Program (AHIP)** OH-58D modification program while recognizing the air-to-air missile airworthiness qualification would be achieved at a later date and under a separate contract. To this end therefore, the AHIP currently has air-to-air missile provisions that include space allocations for specific installation of the required fire control, sighting system, and missile launcher elements to include the actual installation of appropriate hard points on both sides of the OH-58D helicopter. The AHIP pilot's cyclic grip in-

corporates the necessary fire control switches for missile seeker activation and missile launch. In addition, steps were taken to insure adequate primary electrical and power train capacity existed for the future missile system application.

The weight of the system with two missiles was incorporated in the basic OH-58D weight budget and system specification flight performance requirements must be met with the added weight of the air-to-air system. AHIP contractor flight testing during the development program also included an airworthiness evaluation with a ballasted **Air-to-Air STINGER (ATAS)** prototype launcher installed on the aircraft. Now that an ATAS development and subsequent procurement effort appear eminent, application of the missile system on the AHIP will be facilitated to a great degree by the above mentioned advanced planning and hardware applications.

Satisfying the need

With respect to Air-to-Air STINGER, the Army intends to pursue a three-phased program to satisfy the ATAS requirement consisting of **Engineering Development (ED)**, **Initial Production Facilitization (IPF)** and **Long Lead Procurement (LLP)**, and Full Scale Production of sufficient ATAS systems to arm a number of OH-58C and all OH-58D helicopters. The Army is also evaluating the potential for follow on ATAS applications to other combat helicopters as well as adapting the missile launcher for use on surface systems.

Major hardware elements to be qualified under this program include the missile launcher, weapons pylon, interface electronics assembly, control panel, pilot's cyclic handgrip, missile

ABOUT THE AUTHOR

LTC ASSELIN CURRENTLY SERVES AS THE ASSISTANT PROJECT MANAGER FOR PROGRAMS AND THE AIR-TO-AIR STINGER IN THE AHIP-PMO, ST. LOUIS, MO.

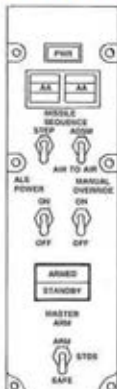
AIR-TO-AIR STINGER ELEMENTS



OH-58D AHP



STINGER/STINGER-POST MISSILE



FIRE CONTROL PANEL



CYCLIC FIRE CONTROL



TARGET MISSILE SIGHT SUBSYSTEM



INTERFACE ELECTRONICS



AIR-TO-AIR STINGER LAUNCHER

sight subsystem, and **Ground Support Equipment (GSE)**.

The ATAS system will function with the standard fully-qualified STINGER missile system currently in use in the man-portable air defense role. As improvements to the basic missile are incorporated and fielded, these updated versions of the STINGER missile will be designed to be operable with the ATAS system without modification.

The following is a brief description of the ATAS subsystem hardware and their intended functions:

- The missile launcher will be a lightweight, self-contained unit providing the structure, electronics and coolant necessary to support and launch two missiles from their disposable launch tubes.
- The ATAS weapons pylon assembly will consist of an ejector subsystem, pylon fittings and electrical cabling.
- Pylon fittings will provide attachment of the pylon and ejector rack to the airframe.
- Structural hardpoint provisions will allow for ATAS installation on one side of the OH-58C and both sides of the OH-58D.
- A fuselage-mounted interface electronics assembly will provide the functional interface between the ATAS launcher and other elements of the ATAS system and will control power applications to all ATAS elements.
- A control panel will interface with existing

switches on the pilot's cyclic handgrip to permit selecting, arming, and firing of the missiles and **built in test (BIT)** functions.

- Indicator lights on the control panel will verify power on, armed or safe mode, number and position of missiles present and position of the selected missile.
- All control lighting will be night vision goggles compatible.
- The missile sight subsystem will contain an infinity focus moving reticle augmented by distinctive audio cueing tones, to provide the necessary target information to the pilot.
- The sight subsystem will also display key instrument parameters (yet to be determined), such as Torque, Turbine Outlet Temperature, and Altitude to the pilot while he is in the forced heads-up position during an air-to-air engagement.

A significant advantage

When the hardware described above is qualified and integrated on the OH-58C/OH-58D aircraft and fielded as intended in the 1987 timeframe, the ATAS will provide a capability for scout helicopters operating in Air Cavalry/Attack Helicopter units, as well as in support of Field Artillery units, to counter the enemy air threat while pursuing their primary missions.

This will greatly enhance the survivability of the Combined Arms Team while contributing to our overall mission accomplishment. **IIII**

LHX may still be in advanced design, but the engine is already showing its metal.

Twin Garrett TSE109's. Each in the 1200 SHP class, with low risk, fuel efficient punch. Battle survivability, from one of America's most successful gas turbine engine builders.

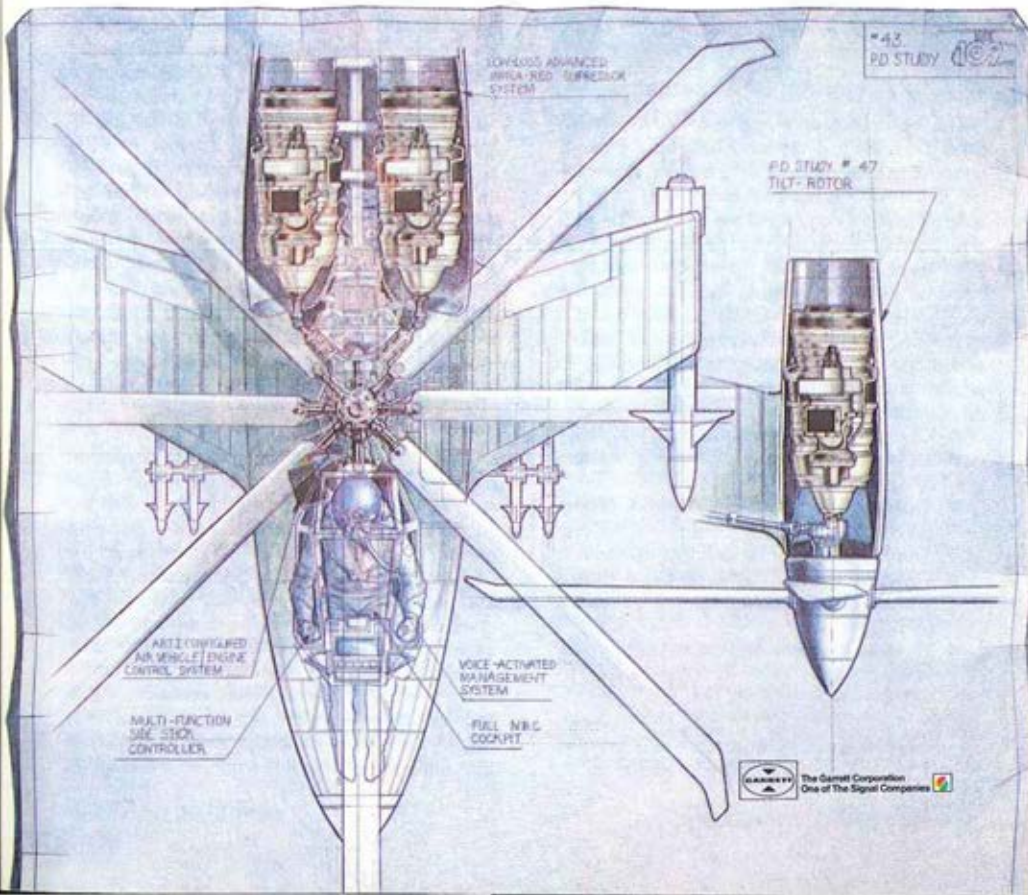
By IOC, the identical power section of this advanced turboshaft will have proven itself in over 1000 production engines. Logging nearly a million flight hours. And demonstrating, not boasting, more than 30% reduction in fuel consumption over engines currently in inventory.

Because the turboshaft version of the TSE109 was built to unparalleled military design and test criteria, it will set a new standard for performance, durability and safety. And because experience teaches that needs do change, Garrett is building the TSE109 with power growth capability to over 1500 SHP.

The TSE109. Before it ever came off the drawing board, we proved our know-how in nearly 50,000 production units. Including over 15,000 propulsion engines,

like those aboard the OV-10A Close Support Aircraft. And we back up that technology with advanced production facilities, a nationwide vendor base, and an Integrated Logistics Support network. For detailed information, contact: Propulsion Engine Sales, Garrett Turbine Engine Company, P.O. Box 5217, Phoenix, Arizona 85010. (602) 231-1037.

GARRETT





AHIP AND THE FIELD ARTILLERY

BY MAJOR MARK A. ISON

RECENT technological advances in aviation have made the **field artillery aerial observer (FAAO)** an even more integral part of effective fire support on the modern battlefield. However, this is only true if he is employed in such a way as to utilize his full potential. This article will discuss the role of the FAAO operating from the OH-58D helicopter.

A closely knit team

The helicopter pilot and the FAAO form a closely knit team. They must help each other in performing their duties during training and combat. The FAAO is not authorized to fly or manipulate the flight controls of the aircraft. The pilot is responsible for getting the FAAO into position to observe. To do this, he needs assistance from the observer. Terrain flying requires the pilot to direct his full attention outside the aircraft. The FAAO must navigate, operate radios, and monitor instruments to assist the pilot. In addition to his combat tasks, the FAAO must be responsible for the following specific tasks:

- Operate the mast mounted sight (MMS).
- Operate the thermal imaging system (TIS).
- Operate the daytime television sensor (TVS).
- Operate the laser rangefinder-designator.
- Navigate for the pilot using the on-board attitude and heading reference system (AHRS).
- Operate the voice and digital communication systems.

ABOUT THE AUTHOR

MAJ ISON IS DIRECTOR OF TRAINING AND DOCTRINE AND CHIEF, PROGRAM MANAGEMENT, NEW SYSTEMS DIV, USA FIELD ARTILLERY SCHOOL, FT. SILL, OK.

- Assist the pilot by monitoring aircraft instruments and gauges.
- Operate the airborne target handoff system (ATHS).

While some of the FAAO critical combat tasks are common to air scouts in other units, all uniquely support and enhance the employment of fire support. These functional areas include: fire support functions; target acquisition functions; and reconnaissance-intelligence functions.

The FAAO must be capable of employing all fire support assets against the enemy. He is the artillery's expert in the employment of artillery fire support including cannon delivered conventional munitions, improved conventional munitions, field artillery scatterable mines, multiple launched rockets, precision guided COUNTERHEAD munitions, and emerging "smart" munitions. He is also an acceptable substitute for representatives of all other fire support means — naval gunfire, TACAIR, attack helicopters, and mortars.

The man in the middle

This officer must be proficient in fire support planning and fire support coordination measures in order to coordinate effectively with fire support officers at all echelons. To provide for artillery fire support, the FAAO must be an expert regarding the artillery digital network. This knowledge is necessary for the FAAO to understand with which elements he is communicating when using the OH-58D **Airborne Target Handoff System (ATHS)** such as: TACFIRE at Divarty; TACFIRE at the artillery battalion; a **battery computer system (BCS)** at the artillery battery; a **digital message device (DMD)** at the supported maneuver unit's fire support

team; or a **variable format message entry device (VFMED)**, via TACFIRE, with the fire support officer at the maneuver battalion or brigade. Tactical damage assessment is another function of the FFAO. The decision to re-strike a target is critical and must be based on accurate and timely information.

The FFAO in the OH-58D possesses excellent target locating capabilities. The **most mounted sight (MMS)** incorporates a television sensor system and a thermal imaging sensor which will allow the team to collect battlefield information and intelligence and to acquire targets at stand-off distances, day and night, in adverse weather or dirty battlefield conditions. The laser rangefinder will enable the the FFAO to guide COPPERHEAD, HELLFIRE, or other "smart munitions" onto high payoff targets with great accuracy. In conjunction with the attitude and heading reference system, it produces target location to eight-digit grid coordinate accuracy and provides an altitude readout as well.

By using these systems, the FFAO will supplement other target acquisition means and orient them into the most vulnerable area in support of close in, deep, and rear area combat operations. The FFAO can be used to provide information for cueing Firefinder and moving target radars during periods of intensive threat activity. FFAO teams will be employed in those areas where other target acquisition means have been forced to displace, where gaps exist due to economy of force maneuver situations, and where cross country mobility is essential.

Intelligence Reporting

The FFAO collects real-time information about the enemy situation. He can observe large segments of the battlefield and can obtain a more accurate and detailed picture of the enemy than either a ground observer or a sensor system. The FFAO can also be called upon to perform route reconnaissance and to confirm position areas for cannon, Lance, and **multiple launched rocket system (MLRS)** units. Information concerning congested routes, applicable bypasses, and the status of potential position areas allows the FA commander to adjust to unforeseen eventualities and still accomplish his mission of providing fire support to maneuver elements. The thermal imaging system of the OH-58D provides the capability to perform these functions at night and in bad weather also.

The improvements provided by the OH-58D will enable the FFAO team to operate and survive on the modern battlefield. The helicopter's small size will make it hard to detect when coupled with its ability to employ continuous **nap-of-the-earth (NOE)** flight operations and to exploit the mast mounted sight while hiding behind cover and concealments. The use of infrared suppressors and threat radar warning indicators will provide further protection. The **improved frequency modulated (IFM) and high frequency (HF)** radios will be especially valuable to the FFAO during NOE operations because they will greatly improve the communication capability to pass battlefield information and targets to supported elements.

The attitude and heading reference system and the laser rangefinder will allow the FFAO to locate himself accurately and to determine the position of any target he observes. This will provide the accuracy needed for first round fire for effect which is essential to the artillery. The FFAO can also make good use of other on-board equipment including the airborne target handoff system that interfaces with **fire support team (FIST)** DMD, BCS, and TACFIRE. He will be able to use the ATHS to send digital messages to the supporting FA unit.

The OH-58D allows him to communicate on two FM radios simultaneously. Additional radios provide very **high frequency (VHF), ultra-high frequency (UHF), and high frequency-single side band (HF/SSB)** communications. With these radios, the OH-58D can be employed as a communications relay station for both ground and aerial forces.

A quantum leap

The very essence of the FFAO team's capabilities is embodied in its ability to move rapidly over the battlefield with a variety of sophisticated navigation, communication, laser, and optical equipment to acquire and engage enemy forces which cannot be acquired by ground observers. Revisions to established doctrine and training strategies for FFAO teams will be forthcoming after the OH-58D Operational Test II is completed in January, 1985.

When properly trained and employed in the OH-58D, the FFAO team will provide a quantum leap in the ability of the field artillery to provide timely, adequate, and effective fire support on the modern battlefield.

IIII



PRECISION ACQUISITION

Because the Army required both precision and stability, Ball's rugged camera was chosen for the AHIP Mast Mounted Sight system. When combined with a laser designator, the Precision Acquisition Camera assures precise target acquisition and designation.

The Army, Navy, and Air Force rely on Ball technology. From displays that operate in the extreme brightness of aircraft cockpits to the low light level cameras providing nighttime surveillance, Ball imaging systems meet the demands of the military environment.

For more information, contact:
Ball Aerospace Systems Division
Electro-Optical Products
Box 1062
Boulder, Colorado 80306
(303) 939-4000



**Aerospace
Systems
Division**



OH-58D: A NEW ERA IN TRAINING

BY CAPTAIN DAVID M. SNELLEN

THE Army Helicopter Improvement Program (AHIP) is the transformation of the OH-58A helicopter into a true **nap-of-the-earth (NOE)** scout aircraft. This helicopter, designated the OH-58D, was designed as an aerial reconnaissance, aerial artillery observation, and target acquisition/designation platform.

The OH-58D will provide the Army with a scout aircraft capable of worldwide deployment which can accept day or night missions under limited adverse weather and obscured battlefield conditions. With the addition of the **air-to-air stinger (ATAS)**, the OH-58D can defend itself from an aerial threat. The OH-58D is one of the most technologically advanced tactical aircraft in the world.

To operate this advanced aircraft, new training devices and techniques are required to train the pilots, observers, and maintenance personnel. This article will highlight some of the institutional courses and training devices now being planned to support the fielding of the OH-58D.

The training strategy

The training strategy is a three phased process. Phase I, which is scheduled to start in 2Q86, is factory training which consists of transferring technical information to key instructor personnel. Phase II is individual training conducted by **new equipment training teams (NETT)** and the establishment of TRADOC installation training bases. Phase III is collective training, conducted at unit level, guided by appropriate ARTEPs.

ABOUT THE AUTHOR

CAPTAIN SNELLEN CURRENTLY SERVES AS AN ASSISTANT TRADOC SYSTEM MANAGER (TSM) FOR SCOUT HELICOPTERS AT FT. RUCKER, AL.

Although the exact starting dates have not been determined for the new courses which will be implemented during Phase II at USAAVNC, Ft. Rucker, and USAALS, Ft. Eustis, all courses will start in mid FY-86.

Concurrent with this institutional training, new equipment training teams will visit the units selected to receive the OH-58D. This training, scheduled to start in 2Q86, will be targeted at the "green tabbers". They will be taught how to employ the OH-58D and how the equipment will effect operations. This type of instruction will eventually be provided in the institutional and service schools.

Phase III, collective training, will begin with the fielding of the aircraft. The ARTEPs will need to be revised to reflect the increased capability of the OH-58D over the previous scout aircraft. An institutional level collective training plan will eventually be implemented to teach pilots these joint operation skills prior to arriving at the unit.

New training devices

With the fielding of the OH-58D, a new level of sophistication will be integrated into the force. This level of sophistication requires that the training devices and simulators be equally advanced. Six different training devices will be used to provide an increased opportunity for hands-on training. Distribution of the training devices will start in FY 86, with sufficient lead time to support the establishment of the institutional courses.

The program of training devices is based on the building block concept. At the heart of the program is the **Classroom Systems Trainer (CST)**. This device incorporates twelve interactive computer-assisted student stations, an

U.S. ARMY AVIATION CENTER

Course Title	MOS	Course Length
Aircraft Qualification	15B/	8
Course (AQC)	100S	wks
Instructor Pilot	15B/	10
Course (IPC)	100S	wks
Observer Qualification	67xxx*	8
Course (OQC)		wks

*To be determined



OH-58D PHASE II INSTITUTIONAL TRAINING

U.S. ARMY AVIATION LOGISTICS SCHOOL

Course Title	MOS	Course Length
Scout Hcptr Repairer	67S	11 wks
Scout Hcptr Inspector	66S	14 wks
Scout Hcptr Maintenance	71A/	4 wks
Test Pilot	100S	

structor station, and a large-screen television projector, allowing individual and group instruction in a classroom environment. Each student station has two high-resolution color screens, the left screen being touch-sensitive and having a **multi-function data entry keyboard (MDEK)** layout. This screen shows representations of cockpit instruments and controls. Touching of control representations during scenarios will show control and instrument changes, while the right screen shows related changes in aircraft systems being controlled (i.e. electrical, hydraulic). The instructor station controls individual and group representations and collates summaries of individual progress. Ft. Eustis, Ft. Gordon, and Ft. Rucker will each receive this outstanding classroom training device.

Moving up the ladder

When the students, either aircrew or maintenance, develop the basic skills, they move up to more advanced, more specialized training devices. The pilots and observers will train on the **Cockpit Procedures Trainer (CPT)**. This non-motion simulator will allow hands-on switchology experience with appropriate feedback. Additionally, many of the emergency/malfunction tasks can be program-

med into the trainer. Current plans call for procurement of these devices which will be located at Ft. Rucker. Additional devices will be procured in future years for field use.

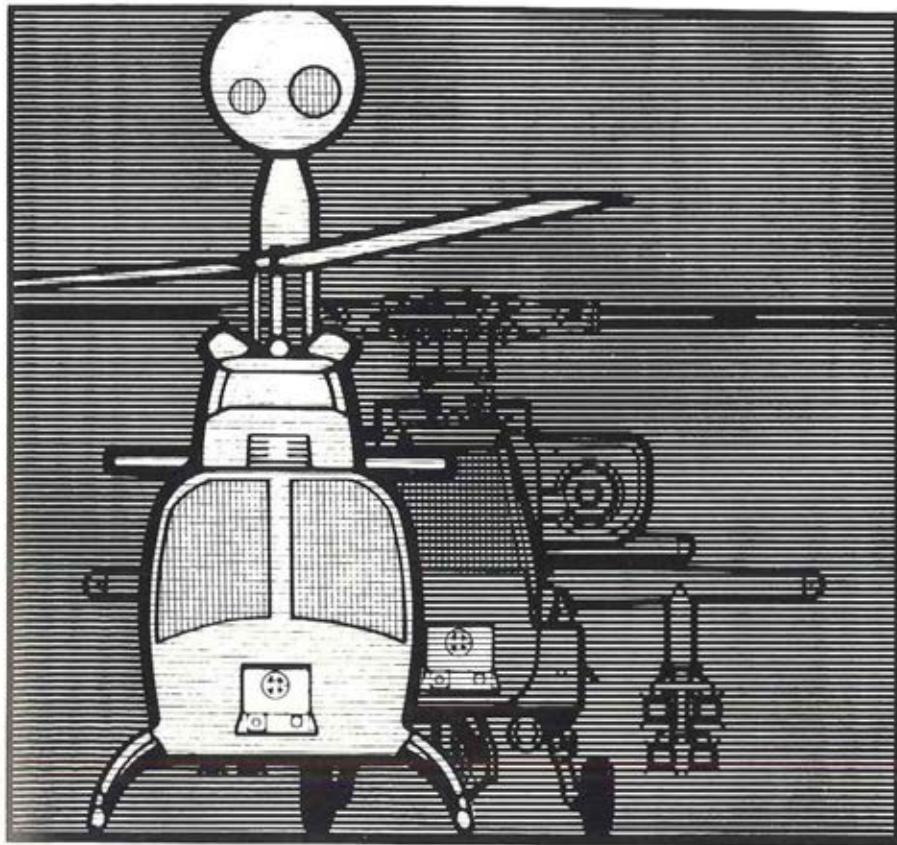
In addition to the CST, Ft. Gordon will receive an **Avionics/Electronics Trainer (AET)**. This device emulates the avionics and electronics packages on the OH-58D and provides hands on experience and trouble shooting of the systems. Ft. Eustis will also receive a **Composite Maintenance Trainer (CMT)**, a **Composite Electric Trainer (CET)**, and an **Engine Maintenance Trainer (EMT)**. Each of these new training devices will provide hands-on experience and trouble shooting capabilities to the appropriate MOSs.

Rapid progress

The training development process for the OH-58D is moving forward at a rapid pace. The "Blue Canoe" technology has been replaced with video discs, data entry keyboards and touch screens. The TSM Scout Helicopter office continues to represent the user in the developmental process.

With the fielding of advanced technology helicopters and training devices, the aeroscout continues to lead the way.

IIII



Litton AHRS delivers better navigation.



The AHIP team wanted more than an AHRS, and in Litton's LR-80 they found it. In addition to more precise heading and attitude, they also get better navigation. That's right, for when Litton's Strapdown LR-80 is tied into the onboard doppler, overall navigation improves by a factor of three to one..!

If you want to improve your helicopter's mission effectiveness, consider Litton's low-cost LR-80 strapdown AHRS, the best production AHRS in the world. Call us. 818-715-4160.



GUIDANCE & CONTROL SYSTEMS
5500 Canoga Avenue, Woodland Hills, California



LTC Leo J. Asselin,
Assistant Project
Manager for
Programs
(314) 263-1368



MAJ James Christie,
Assistant Project
Manager for
Logistics
(314) 263-1371



Earl T. Gatlin,
Chief,
Program
Management and
Operations
Division
(314) 263-1369



Ronald G. Moore
Procurement and
Production Officer
(314) 263-1370



Corresponding Address
USA AVSCOM
ATT: DRCPM-ASH
4300 Goodfellow Boulevard
St. Louis, MO 63120-1798



COL James L. Higenbotham
TRADOC
System Manager
Scout Helicopters
Ft. Rucker, AL
AV 558-4909, 3808
(205) 255-4909, 3808



COL William H. Forster,
Project Manager
(314) 263-1360

Advanced Scout Helicopter Project Manager's Office (ASH PMO)

James F. Matthews,
Deputy Project
Manager
(314) 263-1360



LTC Robert Terry,
Assistant Project
Manager for ATE
(314) 263-1371



LTC Donald R. Williamson
Assistant Project
Manager for
RDT&E
(314) 263-1369

John A. McLaughlin
Chief, Technical
Management
Division
(314) 263-1371



Victor W. Welner,
Chief, Product
Assurance and
Test Division
(314) 263-1353



John A. Bartin,
Chief, Logistics
Management
Division
(314) 263-1371

LTC Carl F. Raab IV,
Dept. of Army
Systems Coord.
DCSRDA
WSA
Washington, D.C.
AV 225-9571
(202) 695-9571



Robert Weinraub,
DARCOM
Weapon System
Staff Manager
Alexandria, VA
AV 284-8392
(703) 274-8392



TELEPHONES:

Commercial:
(314) 263-1360
Autovon:
693-1360

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

A. 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, CONN.

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. ☐ I am an AAAA member.
☐ I am a student pilot undergoing Army flight training.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

MY DATE OF BIRTH IS _____



FIRST FLIGHT FOR ARMY/SIKORSKY ACAP

MAIDEN VOYAGE — The world's first all composite airframe helicopter made its first public flight at the Sikorsky Aircraft UTC flight test facility in West Palm Beach, FL, on 16 August. The aircraft, which was developed by Sikorsky for the U.S. Army Applied Technology Laboratory under the Advanced Composite Airframe Program (ACAP), mates a totally new airframe with the power plants and rotor system of an S-76 helicopter.

By using composites (layers of fabric-like materials impregnated with resins) the ACAP development and production assessment program aims to achieve significant advantages such as: lighter weight; lower cost; increased reliability and maintainability; greater strength, crash survivability, ballistic tolerance, and resistance to corrosion and fatigue; fewer parts and fasteners; and less overall labor and assembly time.



PNVS TRAINER ARRIVES — The first of 10 AH-1S helicopters with the student pilot's station modified by the Northrop Corporation to simulate an AH-64A cockpit recently arrived at Fort Rucker. The 10 will be used to train APACHE instructor pilots and new equipment training teams in night flying with the PNVS. **ABOVE:** An Army aviator adjusts the one inch helmet-mounted Pilot Night Vision Sensor (PNVS) infrared TV screen.



ANDRESON



BISSELL

NEW ASSIGNMENTS — BG Ronald K. Andreson, left, a former BLACK HAWK Project Manager at USA TSARCOM, and most recently the Deputy Commanding General at USA AVSCOM in St. Louis, MO, has been named to serve as the Program Manager for the US Army's Light Helicopter Experimental (LHX) development program. COL Norman M. Bissell, right, a highly decorated Master Army Aviator who has served most recently as the Director of Flight Training at the US Army Aviation Center, Ft. Rucker, AL, has been selected by the Chief of Staff as a Senior Fellow for the US Army for the 1984-85 academic year. He will participate in advanced study and research at the Center for International Affairs at Harvard University.



Registration Deadline Nears for the Second AAAA ASE Symposium

Registration for the 2nd Annual Aircraft Survivability Equipment (ASE) Symposium, to be sponsored by the Army Aviation Association of America, in cooperation with its industry member firms, will be closed on Monday 8 October 1984. The symposium will be hosted by E-Systems, Garland Division, in Dallas, Texas, on 7-8 November 1984.

The 1984 ASE Symposium, which will explore active jamming and decoying technology and developments at the SECRET level, is open to all interested AAAA members from NATO/ABCA countries who possess the appropriate level clearance.

Please contact Lynn Coakley at the AAAA Nat'l Office, at (203) 226-8184 if you would like information about registration or housing.



DECEMBER

M	T	W	T	F	S
	1	2			
4	5	6	7	8	9
11	12	13	14	15	16
17	18	19	20	21	22
23	24	25	26	27	28
29	30	31			

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

AAAA CALENDAR

AUGUST 1984

- AUGUST 2. Fort Hood Chapter. Professional-Social Meeting. BG Charles E. Teeter, guest speaker. Minidome, Ft. Hood.
- AUGUST 2. Lindbergh Chapter. Professional Luncheon Meeting. "Farewell to Colonel Leslie H. Weinstein". Marriott Hotel (D&E Room).
- AUGUST 22-23. Monmouth Chapter. AAAA Sport Days and Clam Bake. Fort Monmouth Tennis Club and Old Orchard Country Club.
- AUGUST 24. Hanau Chapter. Family Picnic. Ballfield Behind POL at Airfield.
- AUGUST 26. Chicago Chapter. Annual Golf Tourney. Ft. Sheridan Golf Course.
- AUGUST 30. Taunus Chapter. Quarterly Meeting and BBQ. Maurice Rose Field.
- AUGUST 30. Schwabach Hall Chapter. Open House. Dolan Barracks Officers' Club.

SEPTEMBER 1984

- SEPT. 4. Southern California Chapter. Professional meeting, in conjunction with the NASA Space Shuttle Landing. U.S. Army Aviation Engineering Flight Activity (USAAEFA), Building 1820, Edwards AFB, California.
- SEPT. 5-9. Hanau Chapter. Farnborough Airshow. London, England.
- SEPT. 11. Fort Bragg Chapter. Professional Quarterly Meeting. MAJ Gibb, USAF Psychiatrist, guest speaker.
- SEPT. 12-14. Lindbergh Chapter. 11th Annual Joseph P. Cribbins Product Support Symposium. Henry VIII Inn, St. Louis, MO.
- SEPT. 20. Pike's Peak Chapter. Professional Meeting. MAJ Euan Houston, British Army, guest speaker.
- SEPT. 21. Mid-America Chapter. Reorganization meeting. CW2 Harold Coghlan, video presentation. Fort Riley Officers' Open Mess.
- SEPT. 22. Checkpoint Charlie Chapter. Membership Meeting and Mongolian Barbecue. Columbia House Restaurant.
- SEPT. 22. Connecticut Chapter. Annual Summer Skirmish, AAAA National Headquarters, Westport CT.
- SEPT. 27. Tennessee Valley Chapter. Professional-social meeting. Dr. Thomas Keenan, Avco-Lycorning, guest speaker. Redstone Arsenal Civilian Rustic Lodge.

OCTOBER 1984

- OCT. 6. Indiantown Gap Chapter. Third Annual Dinner Dance. Hill Top Club, Fort Indiantown Gap.

NOVEMBER 1984

- NOV. 7-8. AAAA's ASE Symposium. E-Systems, Garland Division, Dallas, TX.

MARCH 1985

- MARCH 28-31. AAAA National Convention. Cervantes Convention Center (Professional sessions and exhibits); Sheraton St. Louis (Convention Hotel). St. Louis, MO.

Applicants for 1985 Scholarship Assistance sought by the AAAA

\$7,000 Available for 1985 College-Entry Applicants

The AAAA Scholarship Foundation, a separate non-profit educational activity created to provide scholarship aid the sons and daughters of AAAA members and deceased

members, announces the availability of \$7,000 in assistance funds for the 1985 college-entry 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 21 to receive Awards Committee consideration. The student-prepared application should state the full name of the applicant's parent-member and address of student if different.

Eligibility Criteria

The AAAA applicant must also be: (1) unmarried and a citizen of the United States; (2) a high school senior who has applied to an accredited college or university for Fall, 1985

entry as a freshman; (3) program participation is limited to the children of members with an effective date of membership on or before March 31.

Selection and Notification

Selection of winners will be made by the 20-member AAAA National Awards Committee during the 15-28

February period with each applicant to receive a list of the winners not later than 1 April.

Overall Supervision

The 15-member AAAA Scholarship Foundation, Inc. Board of Governors includes Bryce Wilson, Glenbrook, NV; MG John L. Klingenhagen, Ret., Alexandria, VA; COL Rudolph D. Descoteau, Ret., Alexandria, VA; Mrs. Dorothy Kesten, Westport, CT; Donald F. Luce, Bridgeton, MO; Mrs. William B. Bunker, McLean, VA; CW4 Elmer M. Cook, Ret.,

Alexandria, VA; Paul L. Hendrickson, Ferguson, MO; MAJ Linda M. Horan, Leavenworth, KS; CSM Harmon Kennedy, Ret., Waynesville, MO; COL Nelson A. Mahone, Jr., Ret., Panama City, FL; COL John W. Marr, Ret., Arlington, VA; COL Wayne N. Phillips, Ret., Santa Rosa, CA; Frank N. Plasecki, Philadelphia, PA; Richard S. Steele, Freehold, NJ.



Application Form

Applicant's Name (Please Print)

Street

City

State

ZIP

*Parent's Name

Rank/Grade (if applicable)

Residence Phone Number

*Program participation is limited to the children of those members who have an effective date of membership on or before 31 March.

**Return application on or before 15 December to: AAAA Scholarship Foundation, Inc., 1 Crestwood Road, Westport, Conn. 06880

**SAT, test scores, senior year mid-term grades, and all other data must be received not later than 21 January.

49 Chapters compete in year-end membership contests

A six-month, worldwide membership enrollment competition began on 1 August among the Association's Chapter activities. Separate prizes will be awarded at the 1985 AAAA National Convention in St. Louis, MO, for Chapters having the largest actual gain in membership and the largest percentage membership gain.

The competition will end with those memberships postmarked on 31 January 1985. The two-tiered competition includes the following prizes:

Largest Membership Gain.....A framed Certificate of Achievement to be presented at the 1985 Convention's General Membership Luncheon and an all-expense paid complimentary Chapter Hospitality Suite for one night at the Sheraton St. Louis (Estimated value, \$500).

Largest Percentage Gain.....A framed Certificate of Achievement and a \$250 Cash Award to be presented at the 1985 General Membership Luncheon (Estimated value, \$275).

PREVIOUS WINNERS

1982-83 — LEFT: CPT BRAD HOLTZ, REPRESENTING THE SCHWABISCH HALL CHAPTER, GERMANY, ACCEPTS THE "LARGEST PERCENTAGE GAIN" AWARD — 111%.

RIGHT: AAAA MEMBERSHIP CHAIRMAN MG CARL H. McNAIR, JR., LEFT, CITES GEORGIA CRENSHAW AND COL LES WEINSTEIN OF THE LINDBERGH CHAPTER, ST. LOUIS, MO, FOR ITS "LARGEST MEMBERSHIP GAIN" AWARD — 330 MEMBERS.



1983-84: AAAA SENIOR VICE PRESIDENT MG GEORGE PUTNAM, (RET), RIGHT, PRESENTS THE AWARD FOR THE "LARGEST MEMBERSHIP GAIN" TO BG (P) ELLIS D. PARKER, THEN PRESIDENT OF THE AIR ASSAULT CHAPTER, FT. CAMPBELL, KY.



1983-84: MG PUTNAM PRESENTS THE AAAA'S ANNUAL AWARD FOR THE "LARGEST PERCENTAGE GAIN" IN MEMBERSHIP TO MAJ RONNIE HOPKINS, LEFT, PRESIDENT OF THE ALOHA OF HAWAII CHAPTER.



Chapter Totals at 1 August 1984

(1 August 1984 — 1 February 1985 Chapter Membership Competition)



Master Chapters — 150 or More Members

Rank	Name of AAAA Chapter and Location	Aug 1
1	Army Avn Center Chapter, Fort Rucker, AL	890
2	Lindbergh Chapter, St. Louis, MO	769
3	Alr Assault Chapter, Fort Campbell, KY	709
4	Washington, DC Chapter, Washington, DC	635
5	Corpus Christi Chapter, Corpus Christi, TX	489
6	Southern California Chapter, Los Angeles, CA	384
7	Monterey Bay Chapter, Fort Ord, CA	365
8	Fort Hood Chapter, Fort Hood, TX	349
9	Colonial Virginia Chapter, Ft. Eustis, VA	303
10	Monmouth Chapter, Fort Monmouth, NJ	289
11	Fort Bragg Chapter, Ft. Bragg, NC	287
12	Morning Calm Chapter, Seoul, Korea	252
13	Connecticut Chapter, Stratford, CT	237
14	Aloha Chapter of Hawaii, Honolulu, HI	236
15	North Texas Chapter, Dallas/Ft. Worth	218
16	Mount Rainier Chapter, Fort Lewis, WA	199
17	Rhine Valley Chapter, Germany	179
18	Stuttgart Chapter, Germany	166
19	Wings of the Marne Chapter, Germany	164
20	Indiantown Gap Chapter, Indiantown Gap, PA	155
21	Greater-Atlanta Chapter, Atlanta, GA	151
22	'Follow Me' Chapter, Fort Benning, GA	150

Senior Chapters — 75-149 Members

23	Mainz Chapter, Germany	149
24	Delaware Valley Chapter, Philadelphia, PA	145
25	Chesapeake Bay Chapter, Fort Meade, MD	132
26	Jack H. Dibreil (Alamo), Fort Sam Houston, TX	131
27	Hanau Chapter, Germany	126
28	Coastal Empire Chapter, Ft. Stewart/Hunter AAF, GA	125
29	Old Ironside Chapter, Ansbach, Germany	118
30	Suncoast Chapter, Southwest, FL	113
31	Bonn Area Chapter, Germany	110
32	Combined Arms Center Chap., Fort Leavenworth, KS	109
33	Taunus Chapter, Germany	98
34	Chicago Area Chapter, Chicago, IL	96
35	Fulda Chapter, Germany	75

AAAA Chapters — 25-74 Members

36	Schwaebisch Hall Chapter, Germany	74
37	Lone Star Chapter, Austin, TX	70
38	The Citadel Chapter, Charleston, SC	69
39	Edwin A. Link Memorial Chapter, Binghamton, NY Area	67
40	Nurnburg Chapter, Germany	66
41	Pikes Peak Chapter, Fort Carson, CO	65
*42	Tennessee Valley Chapter, Huntsville, AL	63
*42	Mid-America Chapter, Fort Riley, KS	63
43	Cedar Rapids Chapter, Cedar Rapids, IA	61
44	Tu-Can Chapter, Canal Zone	55
45	Alr Cavalry Chapter, Fort Knox, KY	50
46	Valley Forge MA & JC Chapter, Wayne, PA	45
47	Checkpoint Charlie Chapter, Germany	39
48	Northern Lights, Fort Wainwright/Fairbanks, AK	38
49	Valley View Chapter, Germany	37

*Tie

months takeoffs

Generals

MERRYMAN, James H., LTG
7830 Belleflower Drive
Springfield, VA 22152
SANDS, Thomas A., BG
1 Tennessee Road
Vicksburg, MS 39180

Colonels

ADAMS, Bobby R.
405 Lufberry Drive
Selfridge AFB, MI 48045
BURNS, Ray L.
HQ DA DACS-DP
Washington, DC 20310
CASEY, Elmer M., Jr.
5569 Frances Ave., N.W.
Tacoma, WA 98422
CHASE, Bruce
130th Sta Hsp
APO NY 09102
FAIRWEATHER, Robert S. Jr.
12771 High Stone Drive
Crestview, MO 63146
GOLDING, Willard E.
Qtrs 2334
Ft Lewis, WA 98433
HALL, William A.
503 Wright Avenue
Carlisle, PA 17013
JOPLIN, Paul
Hq USAG Camp Humphreys
APO SF 96271
LOTZ, Reinhard M.
146 Starliner Drive
Scott AFB, IL 62225
MACKIN, Richard E.
1876 Old Buckingham Rd
Hampton, VA 23669
MITCHNER, Marvin E. Jr.
11th Aviation Gp
APO NY 09025
PRATT, Robert H.
HQ, USAREUR ODCSLOG
Box 833, APO NY 09403
SMITH, Leo C.
308 Red Cliff Circle
Enterprise, AL 36331
SMITH, Robert H.
5 Mackenzie Drive
Ft Leonard Wood, MO 65473
WAGNER, Jerry T.
XVIII Abn Corps
Ft Bragg, NC 28307
WENZEL, Paul J.
American Embassy, Kinshasa
APO NY 09662
WILLIAMS, Frank K.
1811 Key Blvd
Arlington, VA 22201

Lt. Colonels

ALLEN, Frank B.
7803 Carriehigh Parkway
Springfield, VA 22152
AOKI, Wayne C.
PO Box 520, Tripler
AMC, Hawaii 96859

Lt. Colonels

BEATTY, Eugene E.
P.O. Box 7486
Fort Riley, KS 66442
BOWDOIN, Arthur C.
1651 E. 8th Street
Stuart, FL 33494
BRADLEY, John
593 Craig Road
Carlisle, PA 17013
BUTLER, James M.
634 Paseo De La Playa
Redondo Beach, CA 90277
CAROTHERS, Dave
528 Pershing Road
Carlisle, PA 17013
CARR, Glenn P.
Hq 2nd US Army
Fort Gillem, GA 30050
CHAMPION, Charles H.
3444 Mt. Burnside Way
Woodbridge, VA 22192
CRAWFORD, David H.
16 Boyce Lane
Fort Rucker, AL 36362
DAVIDSON, Allen E.
3125 Coquina Key Drive SE
St. Petersburg, FL 33705
DEAL, Lanier, Jr.
4600 S. Four Mile Run Dr.
Arlington, VA 22204
DEVLIN, Michael R.
Box 3252
Ft Leavenworth, KS 66027
DOWNS, Curtis H.
1134 Hillhaven
Hopkinsville, KY 42240
FINCH, Alfred J.
4657 Country Creek Drive
Dallas, TX 75236
HALL, David L.
103 N. Willow
Clovis, CA 93612
HOLLWEDEL, George C. Jr.
624 McClellan Ave
Ft Leavenworth, KS 66027
HUDGINS, Seth F., Jr.
HQ, DA ODCSPER
Washington, DC 20310
KANE, Ray J.
18 Faith Lane
Fort Rucker, AL 36362
LAZZARI, Joseph D.
9455 Martin Road
Roswell, GA 30076
MALANEY, Dempsey L.
2113 Circle Road
Carlisle, PA 17013
MILLICAN, Charles W.
14 Sunny Hill Blvd.
St. Peters, MO 63376
NELSON, Michael A.
505 Greene Road
Goshen, IN 46526
PULLIAM, J. Michael
HQ 52d Avn Bn
APO SF 96301
SIEVING, Chris
HHC 501st ABC, Box 3031
APO NY 09326

Lt. Colonels

STACY, John M.
10584 Reeds Landing Cir.
Burke, VA 22015
STAHL, William T.
421st Med Co (AA)
APO NY 09061
SULLIVAN, Julian
70th Trans Bn-AVIM
APO NY 09028
WETZEL, David C.
2644 Morris Road
Lansdale, PA 19446
WILLIAMS, Lewis R., Jr.
9322 Hobart Court
Fairfax, VA 22032

Majors

ABELL, James M.
372-A Cora Sea Rd
Fort Lee, VA 23801
AHEARN, David L.
8611 Highgate Road
Alexandria, VA 22308
ALLARI, Ronald L.
1132 Spicer Avenue
Dover, NJ 07801
ASHER, David S.
8 Dragon Drive
Ft Leavenworth, KS 66027
BARTUSCH, Robert J. Jr.
709 Judy Lane
Copperas Cove, TX 76522
BENNETT, Patrick J.
6905 Ashbury Drive
Springfield, VA 22152
BISHOP, Gary L.
Hq & Hq Trp 11th ACR
APO NY 09146
BLOUGH, John M.
7106 Elk Trail Drive
San Antonio, TX 78244
BONN, John H.
HHC, 2d Arm Div (FWD)
APO NY 09355
BROPHY, William S.
98 Third Infantry Road
Fort Leavenworth, KS 66027
CARDER, Ronald D.
Cobra MFT
APO NY 09333
COLLINS, Colin P.
4115 Tyndale
Brandon, FL 33511
CONNOLLY, Michael J.
USA Eng Div Far East
APO SF 96301
DANIELSON, Jesse M.
910 Mill Stream Court
Savannah, GA 31419
DOWLING, Charles R.
690 Huntington Rd
Athens, GA 30606
ENYEART, Robert D.
12806 S. 29th Avenue
Omaha, NE 68123
FLETCHER, Chas. W., Jr.
Stu Det USACGSC
Fort Leavenworth, KS 66027

Majors

HAYNE, John
4110 NE 12th Av St 100
Portland, OR 97230
HOOVER, David R.
55 4th Artillery
Ft Leavenworth, KS 66027
HUFFORD, Kent
R.D. 2, Box 207A
Pleasantville, NJ 08232
ITEN, Tom J.
42 Red Cloud Road
Fort Rucker, AL 36362
IVEY, Ramon
2957 Foxtail Court
Woodbridge, VA 22192
JASPER, Franklin D.
P.O. Box 3194
Ft Leavenworth, KS 66027
JOHNSON, Paul J.
63 3rd Infantry Rd
Ft Leavenworth, KS 66027
KILLGORE, Houston T.
49 Fourth Artillery Road
Fort Leavenworth, KS 66027
KING, Michael
HHC, 12th CAG
APO New York 09457
KOGLE, Mark
310 B. Bataan Road
Fort Lee, VA 23801
LONG, Richard D.
HHC 12th Avn Gp
APO NY 09457
MAPES, James A.
626 Kiowa Street
Leavenworth, KS 66048
McMILLEN, Leroy B.
4237 Main St
Alexandria, VA 22309
MEDLER, Robert W.
10126 Reseda Blvd.
Northridge, CA 91324
MEREDITH, Kenneth C.
128 5th Artillery Road
Fort Leavenworth, KS 66027
PARAMORE, Jerry S.
1756 Stone Meadow Road
Milledgeville, GA 31061
PITTMAN, Phillip D.
34 Ripley Drive
Redstone Arsenal, AL 35808
RANKIN, Ronald W.
3301 Winter Wood Ct
Marietta, GA 30067
REGER, David R.
1188B New Drennan Park
Fort Campbell, KY 42223
RINEHART, Roger W.
Route 2, Box 1003
Hayes, VA 23072
ROCHE, Richard B.
119 5th Arty Rd
Ft Leavenworth, KS 66027
SCHATTAUER, Fred C.
3706 Rose
Leavenworth, KS 66048
SEERY, Ronald E.
6229 Capella Ave
Burke, VA 22015

Majors

SILLS, Richard E.
328 Hancock Ave
Ft Leavenworth, KS 66027

SODERLUND, Paul R.
73rd 5th Arty
Ft Leavenworth, KS 66027

SPRINGSTEEN, Raymond L.
518 Highland Hills Lane
Highland Village, TX 75028

SWEENEY, John J.
214 Hancock Ave
Ft Leavenworth, KS 66027

VEHLOW, Charles A.
7 Lopez Road
Wilmington, MA 01887

WAITE, James A.
Hq INSCOM-AHS
Arlington, VA 22212

WALLACE, David R.
Box 11
Lancaster, AR 72438

WEIDE, George J.
1729 So. 82nd St Ap 4
Tacoma, WA 98408

WHITTENBERG, Michel E.
11144 Volare
El Paso, TX 79936

WHITTINGSTALL, William C.
29 3rd Infantry Road
Ft Leavenworth, KS 66027

WILLIAMSON, Bruce C.
238 Hancock
Ft Leavenworth, KS 66027

WOLLARD, Claude E.
Hq US Army Spd Cmd Hawaii
Fort Shafter, HI 96858

WRIGHT, Jeffrey W.
134 Ingalls Road
Ft Monroe, VA 23651

WRIGHT, Walter J.
112 5th Artillery Road
Ft Leavenworth, KS 66027

YEAMAN, James
1219 W. Barrow Drive
Chandler, AZ 85224

ZANOW, William L.
HHC, 17th Avn Gp (CBT)
APO SF 96301

Captains

ACKER, Chris A.
92-1260 Kaleo Place
Ewa Beach, HI 96707

ADKINS, Kenneth W.
5736-A Dalton St
Ft Knox, KY 40121

ARCHER, Harry R.
HHC 17th Avn Gp
APO SF 96301

BALLINGER, Roy H.
2919A Hawthorne Drive
Bettendorf, IA 52722

BANNING, Robert
99 3d Infantry Road
Ft Leavenworth, KS 66027

BARRETT, Robert L.
180 Saymore Drive
Athens, GA 30601

BEASLEY, Daniel G.
417 N 72nd Ave.
Pensacola, FL 32506

BONNER, Michael J.
3700 Buena Vista Road
Columbus, GA 31906

BROCKWAY, James
803 Dixie Drive
Enterprise, AL 36330

CASEY, Timothy J.
22 Howard
Fort Rucker, AL 36330

COX, Robert E. Jr.
7913 Jade Drive, SW
Tacoma, WA 98498

Captains

DARDEEN, Stephen A.
203 Taylor
Enterprise, AL 36330

DAVIS, Gary R.
UASSB
APO NY 09025

DENNISON, Ronald J.
Hilton Ridge St Rt 63
East Lebanon, ME 04027

DONAGHUE, Patrick M.
3351 D Street
Petaluma, CA 94952

DUFF, Alan D.
400 Highland Ave
Ozark, AL 36360

DUNLAP, Robert W.
205th Trans Bn
APO NY 09165

ELLER, Douglas R.
5805A Billhymmer Street
Fort Knox, KY 40121

ENGLISH, Lacy, Jr.
7353 Flynn Road
Fayetteville, NC 28304

ERICKSON, Dennis D.
9 Cutler Court
Savannah, GA 31419

FAIN, John R.
5725 Five Sisters Court
Fayetteville, NC 28301

FERRELL, Mark
1211 Bell Rd Ap 259
Antioch, TN 37013

FERRIS, Patrick E.
C Co, 158th Avn Bn
Fort Campbell, KY 42223

FOWLER, Bradford L.
23944 N. Main Street
Salinas, CA 93906

FUNK, Richard O.
B Co 3d Cbt Avn Bn
APO NY 09182

GERHARDT, William P.
106 Nancy Drive
Enterprise, AL 36330

GROGAN, Kenneth J.
2748 Purgatory Dr.
Colorado Springs, CO 80918

GROTKE, Mark L.
6679 Maple Hill Road
South Wales, NY 14139

HAIRSTON, James H.
24 Yerba Buena Court
Seaside, CA 93955

HANS, Thomas F.
5502B Gilkey Street
Fort Knox, KY 40121

HAWORTH, Lorán A.
1556 Canna Court
Mountain View, CA 94043

HAYES, Raymond B.
36 Morton Drive
Ramsey, NJ 07446

JOHNSON, Michael T.
2083 B Werner Park
Ft Campbell, KY 42223

JULIAN, Mark D.
309 Colony Dr. Ap A
Enterprise, AL 36330

KLINE, Keenan J.
105 Comanche
Enterprise, AL 36330

LAWRENCE, David L.
505 Briarwood Dr.
Enterprise, AL 36330

LAWRENCE, Geoffrey S.
1360-39 Josselyn Canyon
Monterey, CA 93940

LEBOEUF, Terry J.
Co C, 8th CAB
APO NY 09185

LEE, James M.
8939 Jeffers Hwy. #1106
Baton Rouge, LA 70809

Captains

MCDANIELS, David J.
P.O. Box 9512
Daytona Beach, FL 32020

MCGRAY, Michael L.
10725 Abercorn Av Apt 117
Savannah, GA 31419

MILLER, David P.
P.O. Box 6301
Mesa, AZ 85206

MORTON, Sanford
153 N. Harris
Fort Rucker, AL 36362

MYERS, Richard E.
6817 Fenwick Avenue SW
Lawton, OK 73505

NICHOLS, Michael R.
HHC 2d Amd Div-Fwd
APO NY 09355

PAGE, Daniel H.
9707 Zircon Drive
Tacoma, WA 98498

PANZARELLA, Roy J.
B Troop, 3rd Cav
Schofield Barracks, HI 96857

RHEIN, John P.
HHT, 47th Cav
APO SF 96251

RUSSELL, Rex A.
222 Yellowleaf
Enterprise, AL 36330

SEYMOUR, Mark R.
14408 Edgemont
San Antonio, TX 78217

SIMMONS, James E.
HHC 7 ATC
APO NY 09114

WEAKS, Ronald E.
6830 Timbercroft Lane
Fayetteville, NC 28304

CAMPBELL-WEHDE, Lynnette
182 Windsor Castle Drive
Newport News, VA 23602

WILSON, John S.
P.O. Box 2083
Clarksville, TN 37040

1/Lieutenants

BARTEL, Richard C.
1085 Stonehill Hwy
Hermann, MO 65041

BILAFER, George M.
2975 Marietta Street SW
Stellacom, WA 98488

BROWN, William J.
8000 Waters Avenue
Savannah, GA 31406

CAPTAIN, Michael J.
3446 Stonehenge Drive
Manhattan, KS 66502

CIANFRANI, Keith M.
9695 Tennessee Ave
Williams AFB, AZ 85224

GOLDEN, Walter M., Jr
224 Remagen Rd.
Ft Ord, CA 93941

LOTT, Cecil L.
Box 561, C Co, 501st ABC
APO NY 09140

LUCE, Daniel J.
PSC Box 242
APO Miami 34001

SCHLESINGER, Ann
63rd Med Det
APO NY 09180

SZARO, Paul
A Co, 3d ABC
APO NY 09182

WEED, David C.
Co C, 8th CAB
Clarksville, TN 37042

WHITE, Howard R.
213d Avn Co
APO SF 96271

2/Lieutenants

MATHEWSON, Michael H.
2d Main Co, TMDE
APO SF 96460

MURRAY, William E.
215 Remagen Rd
Fort Ord, CA 93941

REGAN, Jeanette M.
112 Wooddale Rd
Enterprise, AL 36330

SHUMAN, Clifton
45-720 Duane St
Indio, CA 92201

CW4's

ANDERSEN, Lee E.
406 Douglas Brown Cir
Enterprise, AL 36330

CHRISTIE, Roger L.
52 Humphreys Street
Ft Leonard Wood, MO 65473

LIEZAU, Larry
General Delivery
Fort Campbell, KY 42223

LUCAS, Charles W.
1008 Battery Creek Rd
Beaufort, SC 29902

MAC DONALD, Hugh R.
916 W College
Peoria, IL 61606

PHILLIPS, Jackie L.
109 Independence
Enterprise, AL 36330

PROPER, Lawrence R.
200 Melbourne Drive
Enterprise, AL 36330

SCHOENE, James C.
13 Diamond Circle
Ft Rucker, AL 36362

STANTON, John H.
4235 M. L. King Dr., NW
Atlanta, GA 30336

WING, Steve A.
Route 1, Box 11
Wamie, OR 97063

CW3's

ARTHUR, Harry P.
Bde, Cmr 3, Box 8491
Fort Rucker, AL 36362

BARSANTI, William G.
9603 110th St Ct Sw
Tacoma, WA 98498

BRANTLEY, Douglas K.
Forest Pk, Apt 65, Dixie Dr
Enterprise, AL 36330

BRUNSTING, Clifford D.
301 E Silver Oak Drive
Enterprise, AL 36330

CLARK, Michael L.
10060 Alcan
El Paso, TX 79924

COLEMAN, George L.
73rd M.I. Det.
APO NY 09359

DREW, Glenn W., Jr
12 Fowler Lane
Fort Rucker, AL 36362

FORREST, Robt R., Sr
1234 South Rogers St
Pooler, GA 31322

GILMAN, Tommy L.
C Co, 159th Avn Bn
Fort Campbell, KY 42223

GLOVER, Jodie R.
1406 Becker Road
Killeen, TX 76541

HEDGES, John R.
River Road
Calverton, NY 11933

KING, Orion T.
213d Avn Co
Fort Rucker, AL 36362

CW3's

KRAAY, Anthony G.
UASSB
APO NY 09457

KRISKOWSKI, James J.
1 Avn Bde, Cmr 3, Box 8485
Ft Rucker, AL 36362

LEE, Marvin A.
100 Lightfoot Drive
Enterprise, AL 36330

LOYNACHAN, Richard E.
16095 Deer Park Drive
Dumfries, VA 22026

MESSINGER, James N.
92-841 Kohupono St
Ewa Beach, HI 96706

NELSON, Clinton D.
8614 Wild Meadow
Converse, TX 78109

PHILPS, Jon H.
P.O. Box 3261 LAAP
YPG, Yuma, AZ 85365

ROBINSON, Lee M.
Cmr 3, Box 8137
Fort Rucker, AL 36362

SMITH, Richard L.
107 Suzanne Drive
Harker Heights, TX 76543

SPENCER, Robert G.
8510 Idlewood Dr, SW
Tacoma, WA 98498

CW2's

ANDERSON, Charles P.
6900 N. Vandiver Apt D202
San Antonio, TX 78209

ANGLESEY, Terry S.
1523 Jefferies
Killeen, TX 76541

DELEON, Roland
P.O. Box 764
Daleville, AL 36322

FREITAS, William L.
634 Med Det
APO NY 09180

HEALY, Daniel J.
45th Co, Cmr 3, Box 8389
Ft Rucker, AL 36362

JOHNSON, James D.
804 Hamilton Street
Wahiawa, HI 96786

MAXWELL, Dennis P.
3524-A McCormack Road
Wahiawa, HI 96786

WINELAND, Jeffrey A.
2206 Shoemaker-No 2
Killeen, TX 76541

WO1's

AMBLER, Jaime A.
17 Baker Street
Fort Rucker, AL 36362

CAMACHO, Francisco A.
A Co, 3rd Avn Bn
APO NY 09182

CHURCHILL, Terrence T.
224-B Lowe Court
Fl. Riley, KS 66442

ENTERIDGE, Keith L.
Bldg 1583 Rm 106 Lee Rd
Ft Campbell, KY 42202

JOHNSON, Thomas L.
342 Metz Road
Fort Ord, CA 93941

MOESNER, Rodney R.
2108 Oak Tree Villa
Hopkinsville, KY 42240

PEACOCK, Fred R.
5228 Chicago Ave SW, # 11
Tacoma, WA 98499

PUZZOLI, David A.
P.O. Box 1543
Manhattan, KS 66502

WO1's

ROBERTS, Jimmy L.
Rt 6, Box 434E
Springdale, AR 72764

SMALL, Louis L.
2175 Blakemore Dr.
Clarksville, TN 37040

SMITH, Bertram, Jr
E Co, 503d CAB
APO NY 09165

TAYLOR, William W.
3890 Swordfish Drive
Cherry Valley, IL 61016

ASHER, Kenneth L., SP5
609th Trans Co.
Hunter AAF, GA 31409

DEGON, Paul A., SGT
12350 Mercy Blvd.#303
Savannah, GA 31419

FLETCHER, Bruce W.
1444 Monticello Ave.
Deltona, FL 32725

HUDGINS, James M., MSG
12365 Danube
Florissant, MO 63135

HUNT, Herbert E., MSG
5622 Gross Dr, WPAB
Dayton, OH 45431

MENICHOLES, Robert E., SGT
1023 Essex Court
Sierra Vista, AZ 85635

PASOWICZ, Sharon A., E4
565th Supply Co, Box 540
Fort Hood, TX 76844

SHOOPMAN, Denny K., CSM
11th CAB
APO NY 09457

Associates

ALEXANDER, Marty
MS 343CC927, PO Box 405
Lewisville, TX 75067

ANDREWS, Joseph L.
Cecom Rep, Hq DMMC IAD
APO NY 09868

ARNOLD, Eugene
P.O. Box 1133
Marietta, GA 30061

BARNETT, John B. Jr
P.O. Box 8023
El Paso, TX 79908

BATTAGLIA, Joseph J.
S Orange Blossom Trail
Orlando, FL 32855

BONSWOR, Ralph E.
6101 Condon Dr
Moorpark, CA 93021

BOURKE, Andrew E.
M/S A4301-PO Box 9399
Long Beach, CA 90468

CARLOCK, Daniel Jr.
814 Keswick
St. Louis, MO 63119

CLEATOR, John D.
Equip Stg Br-Mainz Ad
APO NY 09185

COPE, Lawrence
1911 Jeff Davis Hwy
Arlington, VA 22202

DALTRY, Robert P.
4141 Eastern Ave., SE
Grand Rapids, MI 49508

DODD, Ira, Jr.
8083 Shallowford Drive
Baltimore, MD 63011

EDDY, David L.
CMR 2, Box 3018
Fort Rucker, AL 36362

FABER, Conrad W.
9 Tori Ann Dr
St. Peters, MO 63376

Associates

FIRMINT, John A.
491 Monticello Blvd
Lexington, KY 40503

FLATLEY, John
1139 Olive, Suite 306
St. Louis, MO 63101

FORD, Michael
P.O. Box 954
Fredricksburg, VA 22404

GARDNER, Bruce R.
8353 Terra Grande Ave
Springfield, VA 22153

HATTIN, Ronald F.
12234 Tildenwood Dr
Rockville, MD 20852

HAYES, Thomas R.
143 Little Silver Pt Rd
Little Silver, NJ 07739

HEIN, Richard A.
300 Robbins Lane
Syosset, NY 11791

HOLLIS, Roberta M.
2012 Wissant Lane
St. Louis, MO 63146

HORNBERGER, Christopher
PO Box 660246, MS 3196
Dallas, TX 75266

HOWARD, Mike
9804 W 100th St
Overland Park, KS 66212

JONES, Betty
4548 Flora, Apt 1 West
Iselin, NJ 08830

KIM, Hak Soo
35 Mu Gyo Dong
Jung-ku Seoul Korea 100

LESLIE, Deborah J.
10411 Cricket
Dallas, TX 75217

LUBER, Kenneth P.
2024 Hawkeye Drive
St. Peters, MO 63376

MALANOWSKI, Chet
1755 S Jeff Davis Hwy, 510
Arlington, VA 22202

MARCUCCI, Mary F.
2180 Millhaven Court
St. Louis, MO 63136

MCGRATH, Thomas W.
3221 Delor
St. Louis, MO 63111

MEYER, Stephen A.
1024 Pinhurst Dr
Atlanta, GA 30339

MILLER, Stuart J.
1735 Jeff Davis Hwy-805
Arlington, VA 22202

MINISTRI, Edward C.
Victoria Plz, 615 Hope Rd
Eatontown, NJ 07724

MUTCHEK, James T.
10 Parklane Rd
Troy, IL 61294

NEAL, Jeffrey A.
95 Beacon Street
Greenfield, MA 01301

PALMER, Ronald L.
95 Villa Teresa Ct
Hazelwood, MO 63042

PETT, William F.
615C Highland Pk Drive
Chesterfield, MO 63017

POLLARD, William
408 Upland Place
Alexandria, VA 22301

RAFTERY, Patrick J.
Victoria Plz, 615 Hope Rd
Eatontown, NJ 07724

RAYNOR, Peter H.
1306 Colvin Forest Dr
Vienna, VA 22180

REESE, Alfred G.
P.O. Box 671
Forest Park, GA 30051

Associates

ROUTSONG, R.W.
POB 902, Bldg E11 M/S V124
El Segundo, CA 90009

SAWYER, Mark
3113 Lawton Rd. No. 135
Orlando, FL 32825

SCHULSTAD, George
5215 N O'Connor-2d Fir
Irving, TX 75039

SESSA, Tony
436 Vista Suerte
Newport Beach, CA 92660

SPENCER, Fred J.
3200 E Renner Rd-MS460300
Dallas, TX 75081

STAP, John Jr.
P.O. Box 6167
Huntsville, AL 35806

STERN, Peter M.
2777 Summer St, 5th Flr
Stamford, CT 06905

THOMAS, John W.
1725 Jeff Davis Hwy, 400
Arlington, VA 22202

TOMB, Robert N.
1655 N Ft Myer Dr, 1100
Arlington, VA 22209

URIARTE, Juan De
1215 Jeff Davis, Ste 404
Arlington, VA 22202

VESCOIO, Louis O.
485E Route 1 South
Iselin, NJ 08830

WAGNER, Louis R.
2600 Ridgeway Pkwy-Box 312
Minneapolis, MN 55440

WHITE, Frank
1 1st Nat'l Plaza, 1900
Dayton, OH 45402

ANDERSON, John H., LTC
102 White Oak Circle
Ozark, AL 36360

BORSTEDT, Charles A., CW4
2257 Hurley Way #117
Sacramento, CA 95825

CALHOUN, George B., COL
7489 Liberty Bell Dr.
Colorado Springs, CO 80918

CHAMBERLAIN, Witr J., LTC
Box 5570
Fort Hood, TX 76544

GIBSON, Claude F. Jr, SGM
Route 3, Box 443
Ozark, AL 36360

HOEFELING, John A., MG
1200 N Nash St, Apt 815
Arlington, VA 22209

HOUSE, James H., LTC
P.O. Box 3404
Rothschilds, AL 36567

MCCURRY, William K., LTC
4224 Emland Dr, No. 4
Topeka, KS 66606

NIAMTU, John, MAJ
2730 Sunrise Drive
Arlington, TX 76011

RACKLEY, Robert L., LTC
2700 Garth Rd, SE
Huntsville, AL 35801

RHODEHAMEL, Kurt A., MAJ
14310 Cuca Street
San Diego, CA 92129

WILLIAMS, John F., CW4
17455-O Overhill Dr, SW
Fort Myers, FL 33908

WILSON, Leonard R., MAJ
3401 Keavage Dr, Apt 2
Lake Havasu City, AZ 86403

WITHERS, Peter C., LTC
3180 Galangale Way
Doraville, GA 30340

Destination Fort Rucker — Home Of Army Aviation Make It Your Home Too!

Our Specialized Services Include:

- ★ New and Existing Homes for Sale
- ★ Real Estate Investments
- Residential & Commercial Land
- Farms, Apartments
- Rental Houses, Computerized
- Selection and Analysis
- ★ Rentals
- ★ Custom Homes to Your Specifications
- ★ Professional Advice on all Types of Financing
- ★ Free Maps, Brochures and Community Information

Contact Your Friends at Holly; We Are The Professionals!!

C.D. Ciley, Owner
 Jack Clements Sam Kalagian Sam Kalagian, Jr. Joyce Parker
 Jodi Van Allman Alice McHenry Sybil Power Rose Curran

Call or Write (Call Doug Ciley, Collect In CONUS)

1111 Rucker Boulevard, Box 1073, Enterprise, Alabama 36331

Telephone: (205) 347-3486



HOLLY
 Realty Company, Inc.

SERVING THE WIREGRASS FOR OVER A DECADE



ARMY AVIATION ASSOCIATION

1 Crestwood Road, Westport, Conn. 06880



I wish to join the Army Aviation Ass'n of America [AAAA]. My past or current duties affiliate me with U.S. Army Aviation and I wish to further the aims and the purposes of AAAA. I understand that the annual membership includes a subscription to the AAAA-endorsed magazine, ARMY AVIATION, and that my membership starts on the subsequent 1st of the month.

Note: A home address is suggested, if one's military or firm address exceeds 25 characters.

----------------------	----------------------	----------------------

RANK

FIRST NAME

LAST NAME

----------------------	----------------------	----------------------

STREET ADDRESS

----------------------	----------------------	----------------------

CITY

STATE

ZIP

List your AAAA Professional Qualification

Government

Non-Government*

- | | |
|--|--|
| ☐ USA Active Duty | ☐ Manufacturing* |
| ☐ DA Civilian* | ☐ Small Business* |
| ☐ Army Nat'l Guard* | ☐ Retailing* |
| ☐ Army Reserve* | ☐ Consultant* |
| ☐ Army Retired* | ☐ Professional* |
| ☐ Other Services | ☐ Other* |

AAAA ANNUAL DUES

New & Renewal Dues for other than below:
☐ 1 Yr, \$15- ☐ 2 Yr, \$29- ☐ 3 Yr, \$43

New & Renewal Dues for Enlisted; GS-6 & below; and Wage Board 12 DACs & below:
☐ 1 Yr, \$10- ☐ 2 Yr, \$19- ☐ 3 Yr, \$28

This is the only application form accepted

*Nat'l Office will request add'l information. by the AAAA. It may be reproduced locally.

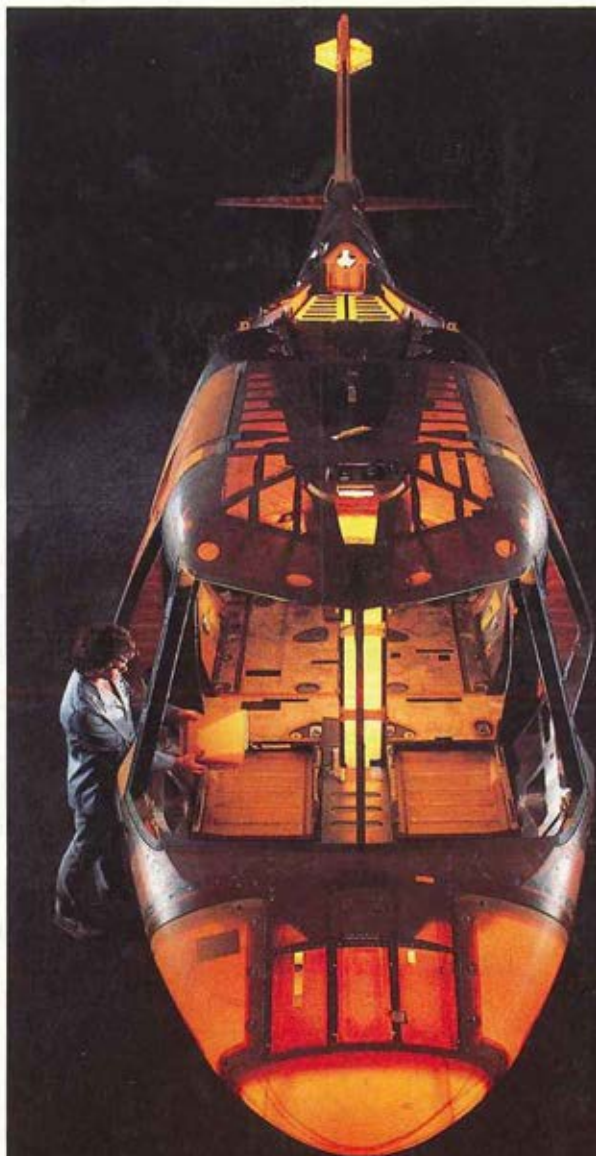
You're looking at the world's first all-composite helicopter airframe.

Sikorsky is now building a helicopter that will perform far better than its metal counterpart. It will be 22% lighter and 17% less expensive, yet it will be incredibly strong.

The composite airframe was commissioned by the U.S. Army's Applied Technology Laboratory, and fully meets its weight and cost goals in addition to providing improved military characteristics.

Solving problems like this has taken Sikorsky into the third generation of composites technology. No other manufacturer produces more composite parts, a wider range of parts, larger parts, or more complex parts. Using a unique procedure, we integrate design and tooling into one simultaneous operation. That means parts can be manufactured with extreme precision and at a surprisingly low cost.

Sikorsky's composites organization is ready to apply the technology we've developed to the needs of other interested companies. Call us at (203) 386-5484. You'll be in touch with the most experienced composites team in the world.



Sikorsky. The Leader.