

# Honor Cadets Get Jet Training

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# CAP Times

Civil Air Patrol



USAF Auxiliary

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## 52 Given Courses At Perrin

PERRIN AFB, Tex. — The Civil Air Patrol careers of 52 cadets from across the nation reached a stunning climax here when they were introduced to ultra-modern flight techniques during the annual Jet Orientation Course.

Highlighting the week-long program were three cross-country flights each cadet made with an AF instructor in a T-33.

Marking the fourth year this base has been host to the CAP project, the enthusiastic cadets . . . each of whom is an honor member of his wing . . . were given a warm reception.

They were given all the privileges of student officers and were extended invitations to attend civilian socials in the neighboring communities at Denison and Sherman.

The entire program was geared to give the cadets experience in every phase of jet flying. They were trained by the same veteran AF officers and airmen who instruct pilots in the F-86L interceptor course carried on at this Air Training Command installation.

Academic courses included T-33 engineering, weather, navigation, flight safety, flight planning and physiological training.

FLIGHT training was divided into periods devoted to day transition, instruments and cross-country flights. The flights took the cadets and their instructors to Oklahoma City, Wichita Falls, Tex., and return.

The cadets were required to perform cross-country navigation according to the flight plans they prepared in ground school.

During the 28 hours devoted to ground school studies, the fledgling pilots became familiar with the cockpit and controls of a jet aircraft. This was done in a C-11 synthetic trainer prior to their first flight.

Most of the cadets had sufficient flight experience to operate the plane under the supervision of his instructor, however. Even those without previous experience found they could fly their jet by the time of their final flight, instructors said.

The cadet who came the longest distance to attend the jet program was Lt. Leslie Tam of Honolulu, a physics major at the University of Hawaii.

(See 52 HONOR, Page 6)

## Units Urged To Support WISI Drive

NATIONAL HEADQUARTERS, Ellington AFB, Tex. — Why I'm Staying In . . . WISI! This is the cry which is now rising to a slow crescendo through the ranks of the Civil Air Patrol across the nation.

With CAP membership renewal already underway, National Headquarters is urging all commanders, personnel officers and ISO's to promote an all-out effort to make this year's membership drive an unqualified success.

THROUGHOUT the year, news media in every State of the Union have stressed the strong and important role the Civil Air Patrol plays in community life.

The important mission of CAP also has been stressed in Congress, by USAF, by federal and private organizations and by the general public.

In all of these messages the general theme is that the Civil Air Patrol NEEDS YOU and more men and women of your calibre!

The Texas Wing started its renewal effort by urging its members and prospective members to become "a part of the jet age."

In a pamphlet, the wing trumpets . . . "The Civil Air Patrol makes dreams come true."

It points out that "you have the opportunity to ride a sleek, fast AF jet; get an all-expense trip to Europe, the Near East or South America; take orientation flights in USAF planes; go to summer encampment at AF bases; be a member of a crack military drill team; take flight training as a winner of a CAP flight scholarship, and have the privilege of wearing the distinctive blue uniform of the USAF, with special insignia."

The Delaware Wing also has (See COMMANDERS, Page 13)

## Arizona Drill Champs



WINNERS of the first annual drill competition of the Arizona Wing were the Tucson Sky Queens shown standing in their good luck circle before taking the spotlight. Left to right are Drill Captain Pat Stell and Cadets Irene Simko, Becky Spencer, Carole Levine, Stephanie Cooke, Sandy Lipscomb, Karen Kaminski, Marty Thornton, Marilyn Neumer, Rose Swanton, Lenette Pfersdorf and Adele Rister. (See story page 6.)

## New Rocket Program Seeks Increase in Interest, Safety

ELLINGTON AFB, Texas — National Headquarters is making an all-out effort to promote and stimulate interest in rockets.

Plans are already on the launching pad for a study of research projects undertaken by amateur groups across the nation and to compile materials, data and guidance which will lead to safe, sane and successful experiments.

"There can be no doubt about it that young people throughout the country, many of whom belong

to CAP, are doing actual research and experimentation in this advanced science," explained Dr. Mervin K. Strickler Jr., chief of aviation education at National Headquarters.

Dr. Strickler and Capt. James J. Ves'sells, assistant director of information services, attended an army-sponsored amateur firing exhibition at Camp A. P. Hill, Va. several months ago.

MORE THAN 250 cadets from 11 States attended the event and both agreed young people are becoming increasingly more interested in aerospace projects but they need necessary guidance, research material, supervision and encouragement if they are to join the ranks of aerospace scientists in future years.

A step in this direction is already in orbit, according to Dr. Strickler, with the publication of the aviation education textbook, *The Dawning Space Age*.

An article in the August issue of *Speed Age Magazine*, entitled "The Big Boom in Amateur Rocketry" by Captain Ves'sells and Dr. Strickler, also outlines some areas of future interest.

It was pointed out that an AF regulation specifies that one of the functions of the Civil Air

Patrol is to cooperate with amateur scientific groups.

Under this regulation, the CAP is required to make "educational teaching materials, student workbooks, instructor guides and color sound training films" available to scientific groups.

The regulation points out that "these basic materials will provide most of the introductory scientific principles basic to an understanding of the characteristic properties of rockets and missiles in terms of propulsion, flight and guidance."

## Tennessee Wing Man Wins Reserve Award

MIAMI BEACH, Fla. — Hawthorne C. Evans, Jr., outstanding member of the Tennessee Wing, received ConAC's coveted "Outstanding Air Reserve Airman Award" in ceremonies held here.

The presentation of the award was made during the 13th annual national convention of the Air Force Association as country-wide attention was focused on the activities of the Civil Air Patrol.

In receiving the recognition, Evans, an elementary school prin-

cipal in Morristown, Tenn., was also promoted from the grade of TSgt. to the rank of 1/Lt. in the air reserve.

Evans' appointment as a reserve officer comes as no surprise to his friends and colleagues in eastern Tennessee, where his accomplishments are well known.

He is the organizer of a cadet squadron in his home community, is cadet encampment commander for the Tennessee Wing, and was

(See TENNESSEE, Page 10)

## Wilmington Air Show Draws 70,000 Visitors

By WAYNE JACKSON

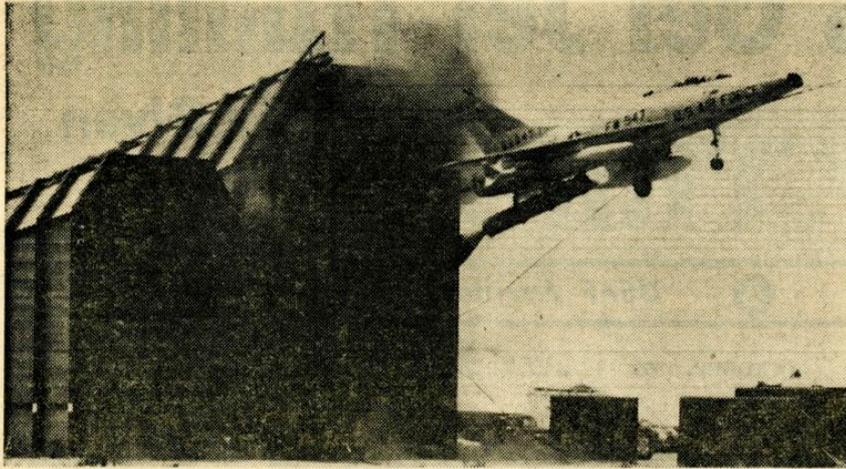
WILMINGTON, N.C. — An estimated throng of 70,000 persons jammed New Hanover County Airport here to attend the second annual CAP Friendship Days air show.

Sponsored jointly by the Cape Fear, Wilmington and Federal Point Squadrons and WECT-TV, the two-day event was described by veteran airmen as one of the most colorful and informative to be held in the country this year.

One of the highlights on the program was a split-second aerial performance by the crack AF Thunderbirds, who thrilled the huge throng with high precision maneuvers.

In addition to the Thunderbirds, Marine jet fliers from Cherry Point Naval Air Station and AF pilots from Johnson AFB in Goldsboro brought gasps from the crowd with high speed flyovers.

The throng also was treated to (See WILMINGTON, Page 13)



PROVING a jet fighter can make a take-off from a shelter designed to withstand an atomic blast, an Air Research and Development Command F-100 super-sabre completes a zero length launch at Holloman AFB, N.M. Al Blackburn, of Los Angeles, Calif., was at the controls.

## CAP Praised By Yarborough

WASHINGTON.—Sen. Ralph W. Yarborough of Texas praised the Civil Air Patrol cadet program on the floor of the Senate and cited that "many people owe their lives to the fast rescue work of the CAP."

He made particular mention of a practice SARCAP mission staged by Group 5 in Lubbock, Tex., on Aug. 29.

In his speech, which was printed in the Congressional Record, the Texas lawmaker said:

"Mr. President: The members of the Civil Air Patrol furnish good examples of good citizenship in action.

"These people spend a great deal of their personal time and funds to prepare themselves to help others. They keep themselves ready for emergency work. Many people owe their lives to fast rescue work by the CAP. During the war, in unarmed light aircraft, they helped maintain a vigil around our country's coasts.

"In addition, the CAP cadet program is one which helps our young people to become more self-reliant, more responsible and better citizens.

"A group of Texas CAP members recently conducted a simulated air search to keep in practice for the real thing. I ask unanimous consent to have printed in the appendix of the (Congressional) Record, as a salute to these public spirited citizens, an article from the Lubbock (Tex.) Avalanche-Journal entitled 'All-Day Problem . . . Simulated Air Search in Area Stated by CAP.'"

The full-length newspaper story explained that planes from each of these communities and about 50 cadets participated in the mission. It also explained in detail many of the events in the exercise.

The host squadron is commanded by Lt. Noel Bryant. Lee Dex Vesels is the cadet commander.

Group Five takes in squadrons from Plainview (headquarters), Amarillo, Borger, Dalhart, Muleshoe, Childress and Lubbock. It is commanded by Maj. Clayton Campbell.

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## Air University Meets Vital Air Force Need

MAXWELL AFB, Ala.—Not yet hallowed by halls of ivy, the Air University nonetheless has all the earmarks of a topnotch educational center, with a faculty and facilities

## This Sergeant Is a Captain

LOWRY AFB, Colo. — It's not everyone who can promote himself and demote himself at his own leisure and not get into trouble with authorities.

But that's the unique situation in the military life of TSgt. Gerald E. Stetson, attached to the 3428th AF Student Squadron, who is fast making a widespread reputation for himself as a Civil Air Patrol captain.

When not attending to his AF duties, TSgt. . . er Captain Stetson can be found hard at work in the headquarters of the Colorado Wing as deputy for communications.

Because of the outstanding work he has performed as a CAP officer and communications chief, Captain Stetson has been singled out for a possible promotion in the non-commissioned officer ranks of the AF.

This was done by Col. Charles F. Howard, wing commander, who warmly praised Stetson in a communication to his AF squadron commander, and requested that he be considered for a higher grade.

"The Colorado Wing is extremely fortunate in having a person of Captain Stetson's calibre and ability as deputy for communications," Colonel Howard said. "He is an outstanding credit to the U.S. Air Force due to his leadership, knowledge and ability to win friends and create favorable impressions for the U.S. Air Force."

He added that Captain Stetson has a good sense of humor and "has the ability to influence and persuade" his CAP colleagues that regulations should be obeyed.

It was pointed out by Colonel Howard that as deputy for communications, Captain Stetson has charge of all fixed, mobile and airborne HF and VHF radio stations, radio equipment and CAP communications personnel in the State. He is also responsible for the preparation of policies, correspondence and decisions affecting operations, assignment of equipment and personnel and other matters concerning the state-wide communications network of the wing.

designed to meet the scientific, technical, and medical requirements of the Air Force in the aerospace age.

The University is dedicated to preparing officers for positions of increasing responsibility in the Air Force. It does this by providing them with the necessary knowledge and background in various courses of study.

A series of postgraduate professional schools help train and develop air commanders and staff officers in much the same way civilian universities produce doctors and lawyers.

Besides this professional training, Air University is also active in providing doctrine guidance to keep abreast of changes and developments in weapon systems.

The University's "main campus" and headquarters is located near Montgomery. Here are the first and second level schools—the Squadron Officer School for lieutenants and captains, and the Command and Staff College for captains and majors.

Also at Maxwell is the senior school of Air University—the War College—whose objective is to prepare men for high command and staff duty with the Air Force's larger organizations.

In this Air Force institution can be found students from the Army, Navy, Marine Corps, Royal Air Force, and Royal Canadian Air Force, with a sprinkling of civilians.

The Air University operates specialized courses such as the Academic Instructor School for training officers, airmen, and civilians as classroom instructors; and the Warfare Systems School for instruction in weapon systems and the impact of technology on air warfare systems.

A major activity of Air University is the School of Aviation Medicine, which is moving from Randolph AFB to nearby Brooke AFB, San Antonio, Texas. This school provides the necessary instruction in aviation medicine and allied areas and also conducts medical research—including space medicine—which affects Air Force flying personnel.

From Gunter AFB, Air University directs its Extension Course Institute, with an enrollment of about 265,000 extension students. A branch of the School of Aviation Medicine is also at Gunter.

Backstopping the Air University's educational program at Maxwell are two noteworthy units, the Air University Library and the Research Studies Institute.



A PRE-FLIGHT briefing is given to Lt. Col. Sarah Duke, ISO for the Southeast Region, by Capt. John Metzger, 14th AF jet pilot, before her initial flight in a T-33. Lieutenant Colonel Duke was given her first jet flight because of her enthusiastic support of CAP and AF activities.

## Efforts of Lt. Col. Duke Rewarded by Jet Flight

ROBBINS AFB, Ga. — Enthusiastic support of CAP and AF activities paid off for Lt. Col. Sarah Duke, a licensed pilot and ISO for the Southeast Region, when she was rewarded with a 55-minute flight in a T-33 here.

She said she was "especially thrilled" when the pilot, Captain John T. Metzger of the 14th AF, put the plane through a series of 10,000-foot dives, sweeping climbs, loops, rolls and other precision maneuvers.

Lieutenant Colonel Duke said that Captain Metzger "wrung out" the plane at her request.

"The flight was worth everything I've ever done for the Civil Air Patrol and the Air Force," she said on landing.

SHE explained that one of the most impressive features about jet flying is its quietness. Ordinarily, an airplane screams through a steep dive, but a jet plane is "strangely quiet," she said.

"It simply ran off and left the noise," Lieutenant Colonel Duke smiled.

Her flight in the jet was not by chance. The AF started to work on

it a year ago and her request for the flight only recently cleared channels. From then on, however, it was the "red carpet treatment" all the way.

The AF sent a twin-engine plane to her home city of Chattanooga, Tenn. and flew her here for her initiation jet flight.

"Now I'll have lots more to talk about to prospective cadets," she said.

## FAA Clarifies Medical Rule

WASHINGTON.—The Federal Aviation Agency has amended the Civil Air Regulations to clarify the physical and mental conditions that will disqualify an airman from holding a medical certificate. Without a currently valid medical certificate no person may pilot an aircraft or act as a flight crew member or airport traffic controller.

The amendment to Part 29 of the Civil Air Regulations, "Physical Standards for Airmen" becomes effective October 15, 1959.

The disqualifying medical conditions which are spelled out in the new revision include: diabetes mellitus requiring insulin; coronary artery disease; a history of psychosis or certain other mental or nervous diseases including behavior disorders, chronic alcoholism, drug addiction or epilepsy.

### Barry Cops Title

QUANTICO, Va.—David Copper Barry Mackay, representing ConAC in the interservice tennis championships here, blasted four opponents off the court to win the all-service singles crown without losing a set.

# New 'Copter Boasts High Stability

WICHITA, Kan. — A new helicopter, embodying inherent stability characteristics comparable to those of fixed wing aircraft, has been designed by the Cessna Aircraft Co.

Designated the CH-1C, the aircraft opens an entirely new regime of flight capabilities for helicopters.

Engineers pointed out that the inherent stability achievement represents a substantial technical advancement for it qualifies the CH-1C for instrument flight operation without the necessity for complicated electronic stabilizing devices.

In addition to its instrument capability, engineers said the helicopter is designed for reconnaissance-observation, light personnel transportation and instrument training missions.

The new aircraft has the normal flight and engine instruments plus a five-inch altitude gyro, a five-inch directional gyro, a turn and slip indicator and an instantaneous vertical speed indicator.

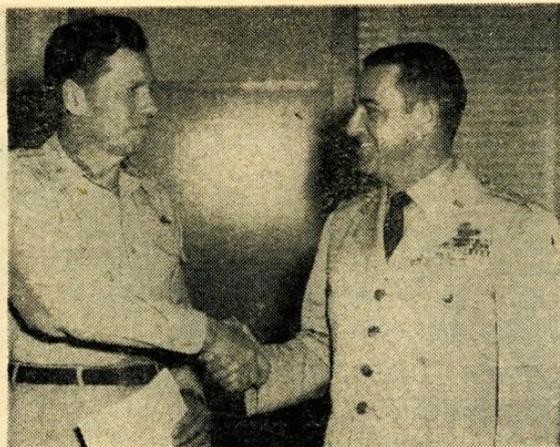
It was explained by engineers that the lateral stability of the aircraft has been attained chiefly through a mechanically driven gyro which inputs a control force, proportional to the roll rate and roll displacement, to the rotor control system.

Longitudinal stability, they said, is the result of a new design unswept, untapered and symmetric-section horizontal tail surface. This is combined with a g-sensitive unit which stabilizes any longitudinal oscillation.

Engineers also explained that a newly designed tail rotor, with the center of pressure on the pitch change axis, is credited with providing directional stability.

A three to four place helicopter, the CH-1C has a maximum gross weight of 3100 pounds and an empty weight of 2050 pounds. It is powered by a Continental 270 net horsepower reciprocating supercharged engine located forward of the cabin section.

The helicopter has a fuel capacity of 90 gallons and has a maximum cruising range of about five hours. Cruising speeds range from 80 to 105 knots. The rate of climb at sea level, with maximum gross weight, is 950 feet per minute.



NEWLY NAMED LO for the Pacific Region, Lt. Col. Richard L. Portillo, left, receives the AF Commendation Medal from Brig. Gen. Stephan D. McElroy, national commander, during headquarters ceremonies at Ellington AFB, Tex. Lieutenant Colonel Portillo was cited for developing and improving the tactics used by bombers and tankers while he was chief of the tactics section of the 15th AF.

# Cadet Training Plan Lauded at Legion Meet

MINNEAPOLIS, Minn. — The American Legion unanimously adopted a resolution at its national convention here endorsing Civil Air Patrol activities and praising the cadet training program. The resolve pointed out that the huge veterans' organization has supported CAP for many years and urged its 2.7 million members at posts throughout the country to continue to support, encourage and participate in the CAP cadet training program.

# Dangers Cited In Turnover

MINNEAPOLIS, Minn. — Brig. Gen. Stephen D. McElroy, national commander, told some 600 persons attending the North Central Regional Conference here that the one-third annual turnover in senior membership is weakening the CAP program.

In a move to overcome this situation, he stated that senior training programs should be stepped up with an assist from national headquarters.

Although many problems cropped up during the past year, Brigadier General McElroy explained that the Civil Air Patrol accomplished many achievements.

He lauded the benefits members received from the Staff College held at the University of Montana and expressed hopes that the college would be held next year at an AF base, possibly Ellington.

It was also stated in the resolve that "adequate liaison be established and maintained" between the American Legion and the Civil Air Patrol.

This, the resolve said, would prove helpful in providing information and program materials to enhance the working relationship between the American Legion and the cadet training program through the distribution of the booklet "A National Education Program" to all interested groups.

The resolve declared that "the Civil Air Patrol Cadet program offers training in the fundamentals of aviation education, including the theory of flight, meteorology, navigation, aircraft engines and pre-solo flight training.

"In addition to these technical subjects," the resolve continued, "the Civil Air Patrol cadet program also offers boys and girls in the 14 to 18 age group character training, leadership training, and other pre-induction training that have proved valuable to them when they are called for active service.

"Experience proves," the resolution said, "that this training has enabled former Civil Air Patrol cadets to advance more rapidly and to serve in positions of greater responsibility in all branches of the armed forces, especially the air arms."

It mentioned that the cadet training program "at the community level is a major activity at this time."

# CAP Calendar

National Executive Board  
National Headquarters, Ellington AFB, Houston, Tex., 1,2,3 Nov.

Regional Conferences  
Southwestern, New Orleans, La., 8-11 Oct.  
Northeastern, New Haven, Conn., 16-18 Oct.



LT. JOHN L. STEINMETZ

# Former Singing Star To Command Squadron

EAU CLAIRE, Wis.—Lt. John Steinmetz, who entertained American troops overseas as a member of the Four Teens, has been named commander of the Eau Claire Squadron. He succeeds Lt. Louis Paulsrud.

A licensed pilot for six years, Lieutenant Steinmetz spent four years on active duty with the AF and saw service during the Korean conflict.

While a member of the Four Teens, Lieutenant Steinmetz performed on programs with stage, screen and television stars, including Bob Hope, Arthur Godfrey, Steve Allen, Ted Lewis and Sophie Tucker.

During the quartet's swing in entertaining American troops, Lieutenant Steinmetz sang in the U.S., Japan, Korea, at South Pacific bases, Greenland and England. He has been a member of his squadron for a year.

# Cadet Mans Radio Despite Injured Leg

HOUSTON — Cadet Jimmie Roberts of the Houston Squadron three months ago made a decision to undergo bone surgery to correct a leg ailment so that he might physically qualify to enter the AF Academy.

Because of this he was unable to attend summer encampment, lost a chance to win his proficiency certificate, and could not participate in all of his aviation hobbies.

But despite his disappointments and handicap, he proved his mettle and his devotion to CAP when a vicious hurricane slammed into this city one night.

Ignoring sleep and a heavy bulky cast wrapped around his leg, Cadet Roberts stubbornly remained by his home radio to relay

important messages and to monitor CAP communications being sent from the hurricane area.

Throughout the night he listened and informed his squadron commander of storm developments.

When the storm exploded, Cadet Roberts did not have to be told what to do. He knew his mission was cut out for him. He went quickly to work to modify his radio equipment so several channels could be heard simultaneously.



WHEN A SEVERE hurricane slammed into Texas, Cadet Jimmie Roberts of the Houston Squadron, who recently underwent bone surgery to qualify for the AF Academy, stubbornly remained by his radio to relay important CAP storm messages.

# New Challenges Seen For Space Age Medics

BROOKS AFB, Tex.—Medical patients of tomorrow may look to be electronically monitored and watched from a central recording table many miles away, Maj. Gen. O. K. Niess, USAF Surgeon General said recently. Such a practice is not inconceivable, he said.

Niess was speaking before the advanced course in aerospace medicine for allied officers at the Air Force School of aviation medicine. He said that the conquest of space during the next 10 years will pose the most stimulating challenge ever encountered by medicine.

Included in the class were 14 medical officers from 12 countries.

Niess said that the impact of aerospace medicine upon general medical practice has been twofold. Besides increasing our knowledge about the human body in relation to the earth's environment, it is also influencing the development of medical instrumentation and methods used in diagnosis, observation and therapy.

"The next 10 years should pose the most stimulating challenge yet encountered by medicine," he said. "Providing the means for man's survival is that task which concerns aerospace medicine today."

HE SAID that space medicine has developed and tested new methods of instrumentation in space simulators and actual rocket flight.

"The application of these new methods and highly miniaturized instruments to hospital patient care could be profound," he said. "Providing the means for man's survival

in the totally hostile environment (space) is the task which concerns aerospace medicine today."

# Birthday Special For CAP Times In December

WASHINGTON. — The 18th Anniversary of the Civil Air Patrol will be marked with an oversized, bonus CAP Times Special Edition full of features, historical and current, about CAP.

Brig. Gen. Stephen D. McElroy, National Commander, plans to make the December issue of CAP Times a reference edition for senior members, cadets and others interested in the organization.

Senior members and cadet subscribers will get the issue as part of their subscriptions.

Non-subscribers and those who may wish extra copies sent to themselves or others may obtain them by sending 25 cents to cover cost of the edition and mailing to: Circulation Manager, CAP Times, 2020 M Street NW, Washington 6, D.C.

Cadets may obtain a year's subscription, or 12 copies, of CAP TIMES for 50 cents. If the subscription is received by Nov. 10, 1959, the BIG ANNIVERSARY Edition will be included as part of the subscription.

# Civil Air Patrol Times

# Leader of Champs

By Charles J. Wood

The Civil Air Patrol Times is an authorized publication of the Civil Air Patrol, a private benevolent corporation, and an auxiliary of the USAF, existing under, and by virtue of, acts of the Congress of the United States—Public Law 476, 79th Congress, Chapter 527, 2nd Session, July 1, 1949 (36 U.S.C. 201-209) and Public Law 557, 80th Congress, Chapter 349, 2nd Session, May 26, 1948, as amended, (5 U.S.C. 626, 1 & 2). Opinions expressed herein do not necessarily represent those of the U. S. government or any of its departments or agencies.

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National Commander ..... Brig. Gen. Stephen D. McElroy, USAF  
 Director of Information Services ..... Maj. James W. Hickman, USAF

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OCTOBER, 1959

## Well Done

THE CIVIL AIR PATROL'S activities for the summer of 1959 now are completed. In spite of many difficulties and frustrations which each of you encountered in attempting to get the job done this year, I am sure that you will be surprised and pleased when the accomplishments of the summer months are passed in review.



McELROY

USAF officers, were guests in one of the following countries this summer: Belgium, Brazil, Canada, Chile, Denmark, France, Great Britain, Greece, Israel, Italy, Mexico, Netherlands, Norway, Peru, Portugal, Spain, Sweden, Switzerland, and Turkey.

- 134 young men from organizations similar to our own in the countries listed above, accompanied by 38 escorts, were guests of the following Civil Air Patrol Wings this summer: New York, Michigan, Virginia, New Mexico, Idaho, Florida, W. Virginia, Minnesota, Alabama, New Jersey, Delaware, Tennessee, Oklahoma, Connecticut, Iowa, New Hampshire, Illinois, Montana, California, and Nebraska.

- Approximately 15,000 Civil Air Patrol cadets participated in the National Drill Competition. From this number, 220 cadets representing the champions in each of the eight Regions, plus a team from Puerto Rico and Hawaii, accompanied by their escorts, participated in the National Drill Competition in New York City, the World Series of this event.

- The National Champion Hawaii Drill Team represented Civil Air Patrol in the International Drill Exhibition in Toronto, Canada.

- Many other young women, cadets of the Civil Air Patrol, participated in the Inter-Region Cadet Exchange.

- Incomplete reports indicate 767 hours were flown by CAP crews in search and rescue missions during the summer months.

- 39 SARCAPS were performed.

- More than 1,800 school teachers attended forty-six Aviation Education Workshops in Colleges and universities in this country.

- 130 teachers attended the National Aviation Education Workshop at Montana State University.

- 28 Air Force Reserve Officers attended the National Aviation Education Workshop at Montana State University.

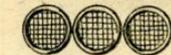
- 200 officers of the Civil Air Patrol, including two busy Wing Commanders, Col. O'Connor from the Kansas Wing, and Col. Chick from the Oregon Wing, attended the first Civil Air Patrol Staff College at Montana State University.

- The National Headquarters, with approximately one hundred people and a half-million pounds of equipment, moved from Washington to Ellington Air Force Base, Texas.

----- And somehow through all this, the units back home continued "business as usual." Civil Air Patrol as an organization, and each of its members as individuals can be extremely proud of the accomplishments for the Summer 1959. I congratulate you.

*Stephen D. McElroy*

STEPHEN D. McELROY  
 Brigadier General, USAF  
 National Commander



David P.  
**KALANI III**

CADET EXEC. OFFICER  
 KAIMUKI SQUADRON HAWAII

DRILL COMMANDER OF TWO  
 NATIONAL CHAMPIONSHIP  
 TEAMS, 1957-1959



SOPHOMORE AT THE  
 UNIVERSITY OF  
 HAWAII



RECEIVED CERTIFICATE OF  
 PROFICIENCY IN 1956



## Appreciation

ORLANDO, AFB, Fla.—I wish to extend my sincere appreciation for the excellent cooperation and assistance rendered by personnel of the Central Florida Squadron of the Civil Air Patrol during the period 26 July through 31 July 1959.

During this period Air Rescue Service conducted its fourth annual World Wide Pararescue competition at Orlando Air Force Base, Florida. The Central Florida Squadron provided communications equipment and personnel to operate a communications net with stations at Flight Operations, Orlando AFB, and the parajump site.

On 31 July 1959 a retirement ceremony, including a review of the troops, was conducted for Brig. Gen. T. J. Du Bose, Commander, Air Rescue Service. One of the highlights of this ceremony was a fly over by a formation of ARS aircraft. The excellent timing of the arrival of the formation over the parade ground is attributed to the communications provided by a CAP radio vehicle at the parade ground.

I am looking forward to the continued outstanding cooperation between the Civil Air Patrol and Air Rescue Service.

JOSEPH A. CUNNINGHAM  
 Brigadier General, USAF  
 Commander

## Friendship

CROW WING, Minn.—The Crow Wing Squadron, USAF—CAP Headquarters, and the British Cadets and Officers wish to thank the many individuals and organizations who made the British Cadet visit to

(See LETTERS, Page 11)



THANKS A MILLION . . . The Melbourne Composite Squadron 6, Florida Wing was presented with a \$500 donation by the Go Neighbor Fund, an employee organization of the Boeing Airplane Company's Atlantic Test Section. The presentation was made to Capt. Richard Robbins, squadron commander, by William C. Gearhart, president of the group. The money will be used to purchase air and ground communications equipment.

GREETINGS . . . Lt. Col. Vernon F. Kullowatz, recent graduate of the Air Command and Staff School at Maxwell AFB, Ala., has been named chaplain at national headquarters. A veteran of War II at the Korean conflict, Lt. Col. Kullowatz holds the Silver Star, Bronze Star with Oak Leaf Cluster and the Purple Heart.

BIG SWITCH . . . Cadet Lt. Emil E. Schultz, Jr. of Foothill Squadron California Wing, was unable to attend summer encampment with his unit. The reason? He was in Virginia with his parents so he attended the Virginia Wing encampment after he was made an honorary member of the Old Dominion State unit by Maj. Anthony Dingas, encampment commander. His father is a group officer and his mother is the Foothill Squadron nurse.

TEN-SHUN . . . They said it couldn't be done, but Barbara Wilford, a former CAP cadet in Oak Park, Ill. did it. She became the first cadet at the University of Illinois to win an AF commission through the AFROTC program. Her desire to become an AF officer was generated through her Civil Air Patrol training. Her fiancée, Robert Monsell, an AF cadet studying navigation.

THREE R'S . . . Capt. R. C. "Bob" Blackman, former aviation education officer for Group 3, Florida Wing, and a pioneer in organizing the Junior Air Cadets, is currently coordinating the aviation education staff of the Florida Wing. An instructor at Florida State University, he is currently projecting monthly releases on curriculum, techniques and material.

SAFETY . . . The Alabama Wing has struck on a unique idea to promote and stress safety. It is publishing a pamphlet called the Protector featuring a cartoon of a duck named Bama Alawing who quacks out safety themes, including the danger of being overweight. It is written by Capt. Henry L. LeMien, Jr. and the cartoon is drawn by Cadet Jerry G. Marchant.

FOR THE BIRDS . . . Birds choosing to rest on the AF Missile Development Center sled track at Holloman AFB, N.M. have caused severe damage to sleds travelling at supersonic speeds. To overcome this, loud speakers have been installed along the tracks which broadcast machine gun fire, thunder and hawk cries to scatter the feathered creatures before the sled comes whizzing along.

# BOOKS

Writing for the AP by the Associated Press Writing Committee (25 cents, 32 pages).

This book is tailored for potential and seasoned news writers. It dissects leads of actual news stories, discusses sentence structure, story organization, color and other elements of newspaper writing.

Alan Gould, AP executive editor, says in the foreword that "the committee's work has resulted in shorter leads with more punch, story length has been cut and the production of bright copy has been stepped up."

The committee has drawn on ideas and material from AP bureau chiefs and staffers throughout the world and offers criticisms on a daily basis.

The book may be obtained through the Traffic Department, Associated Press, 50 Rockefeller Plaza, New York 20, N.Y.

Patents and Inventions (U.S. Patent Office, 15 cents)

Inventors who desire to obtain patent protection will find helpful advice in this publication.

This easy-to-read, informative booklet outlines some basic points an inventor should consider before seeking a patent. A section of the booklet is devoted to answering some of the most frequently asked questions concerning patents.

The booklet may be obtained by writing to the Superintendent of Documents, Government Printing Office, Washington 25, D.C.

They Flew the Atlantic (de la Croix, translated by Fitzgerald, \$3.95).

All of the adventure, drama and excitement of the great pioneers of the air is recaptured in this book.

Everyone has heard or read of Lindbergh's dramatic 33-hour flight from New York to Paris, but this book points out that there are other equally distinguished fliers whose names are all but forgotten.

How many persons know, for example, that the first attempt to cross the Atlantic Ocean by air took place in 1910? This attempt, made by airship, was technically premature, however, and the dirigible was lost at sea.

This book explains that several attempts were made in 1919. One of these was a successful three-stage flight from Newfoundland to the Azores to Portugal to England by a navy hydroplane. Shortly afterwards, a flimsy Vickers biplane made it from Newfoundland to Ireland and a British Dirigible flew from Scotland to New York.

The author lists the exploits of a host of famous aviators, including Hermann Koehl, Lefevre and Lotti, Costes and Bellante, Rossi and Codos and Amelia Earhart.

Missile and rocket firings are becoming almost routine affairs, with such words as Atlas, Thor, space capsule, polar orbit and perigee appearing frequently in the newspapers.

Yet for the average citizen, these accounts may be too scientific, whereas the knowledgeable airman may find them not detailed enough. Three books on the market now can certainly help both groups.

The Illustrated Guide to U.S. Missiles and Rockets by Stanley

Ulanoff (Doubleday & Co., \$3.95) is a slim volume that compiles all the armed services weapons. Preliminary sections on guidance systems and power plants will help clear the air for many who are unfamiliar with these aspects.

The book concerns itself mainly with current missiles and rockets, but also looks into the "immediate future," discussing the AF's Dynasoar and Minuteman, among others.

The more serious student of rocketry will find that the Rocket Encyclopedia Illustrated (Aero Publishers, Inc., \$12.50) is his meat. Here is the technology behind the blast-off: the engineering, assemblies, components, processing and production methods. The encyclopedia also covers the human side, including biographical sketches and historical events connected with the rocketry field.

Many full-page diagrams are included in this volume, and nearly every page has one or more pictures. Of interest to the layman, this book can be invaluable to the scientific-minded individual who desires more than just browsing.

In a similar vein, the Dictionary of Guided Missiles (Van Nostrand Co., \$17.50) is a book that can be extremely useful to those who want to, or need to, know more about rockets and missiles than is usually contained in popular magazines or daily newspapers.

Although it is a reference book, random reading can reward you with many interesting facets about the research, design and operation of spacecraft.

Pictures graphically illustrate the definitions, and there is much the reader can learn about aerodynamics, electronics, propellants and numerous other subjects that play important roles in the missile world.



A SURPRISE was in store for cadets of the Fourth Group, Ohio Wing, when they crossed paths with Vice President Richard M. Nixon while en route to Wright-Patterson AFB, Ohio, for their summer encampment. The meeting took place in Cleveland. (UPI)

## Effective Writing Studied By 20,000 in Air Force

WASHINGTON. — Twenty-thousand AF people have completed AF's "effective writing training course" since June 1958 and many more will be taking it soon, officials here said last week. Several commands say they will accelerate the writing program soon.

The course, begun in June 1958 under AFL 50-6, is a 10-hour workshop type of training given at various bases and commands. The course stresses brevity and clearness in writing, by avoiding long sentences and paragraphs, redundancy, and unfamiliar words.

Col. J. T. Tarr, Director of Administrative services is sparking the program. He's interested in reducing paperwork and improving readability.

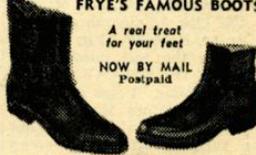
The writing improvement effort is the first step in a continuing effort to replace "federalese" writing

style with simple, understandable language, Tarr states.

He said the principles and techniques of effective writing will be included in the curricula of all AF schools.

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ANNUAL EXERCISES . . .

# National Capital Wing Holds Test Mission

WASHINGTON—Several hundred members of the National Capital Wing participated in an annual SARCAP effectiveness test mission for two days in a 100-mile radius of the nation's capital late last month.

The drill was seen by scores of residents and visitors here as CAP seniors and cadets manned radio stations and airports throughout the area issuing directives and performing ground support necessary to the mission.

A problem of searching for a "downed" aircraft was given to Col. F. Joseph Donohue, wing commander, by Maj. Archie J. Johnson, wing LO, a few moments before the huge search was set in motion.

The mission was observed by Lt. Col. Jack D. Dieckmen, LO of the Middle East Region and his staff from Shaw AFB, S.C., and officers from the 14th AF Search and Rescue Center, Robbins AFB, Ga.

Although the test mission was only to test the SARCAP capabilities of the Wing, it was explained to many spectators that CAP is also responsible in carrying out duties such as setting up emergency communication networks, administering first aid, flying blood lifts and supporting Civil Defense.

DALLAS — Rolling into high gear to locate a "lost" pilot, members of Group Four and Group Six from the Dallas-Fort Worth area, completed a successful SARCAP effectiveness test mission in a little more than 11 hours.

Participating in the drill, which covered a tremendous area, were 18 CAP planes, three AF helicopters and a unit from the Dallas County Sheriff's office.

The search was touched off after a "pilot" had lost radio contact in the vicinity of Texarkana, Tex. on a flight from Greenwood, Miss.

After 50 percent of the possible crash area was covered, the "downed" plane was located by Capt. Thomas Grizzelle and his observer, Cadet Dale Williams along the southeast shoreline of Lake Dallas.

The ground rescue units, under the command of Maj. H. R. Craig, swung into action and a helicopter took off with a doctor to aid the "pilot" pending the arrival of an

ambulance and carry-all equipped with a mobile radio unit.

Major Harvey Lewis of the Southern Sub-Regional Rescue Coordination Group, commended those who participated in the mission.

PHILADELPHIA, Pa.—Approximately 650 seniors and cadets from the Delaware Valley area recently participated in extensive search and mobilization training missions.

Training operation bases were located at North Philadelphia, Perkiomen Valley and Millville, N.J.

Aircraft from units in this city concentrated their search for a simulated enemy submarine in lower Delaware Bay, while a "downed" plane was the object of an air search conducted by Delaware and Montgomery County units.

HAWK MOUNTAIN, Pa.—More than 200 cadets and senior personnel from the Pennsylvania Wing participated in rescue and survival training tactics here.

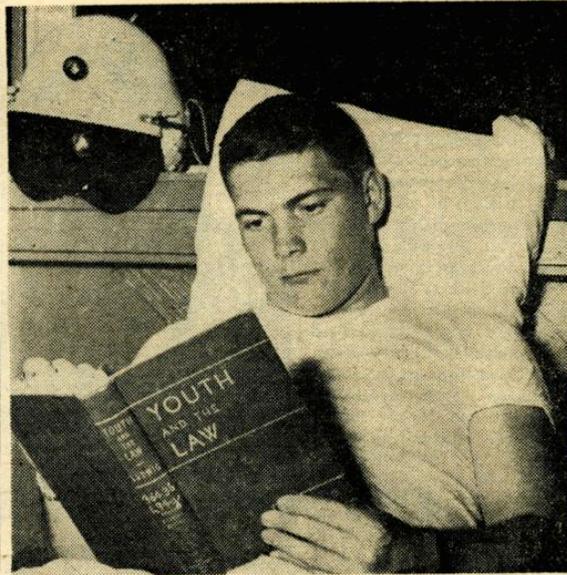
One of the features of the encampment was a demonstration in aerial message drops and pick-ups by a plane piloted by Col. Phillip F. Neuweiler, wing commander. His observer was Lt. Col. Michael Hancharik, wing operations officer, who operated the drop equipment.

Another feature was the rescue of a "downed" pilot at night when night navigation procedures had to be used. Instruction in parachute operations was also given by personnel from Otis AFB, Mass.

## Starts Air Career

NASHUA, N.H. — Donald C. Davidson, a member of the Nashua Squadron for the past five years, has started his Aviation Cadet jet pilot training at Randall AFB, Tex., it was reported here.

Davidson started flying at the age of 15 and made his solo flight a year later. As a pilot he participated in many SARCAP missions for lost aircraft.



FREE TIME during one of his evenings at the Jet Orientation Course at Perrin AFB, Tex. is used by Cadet Dixon W. Wallace of Prairie Village, Kan. to keep up with his studies as a pre-law student at Washburn University, Kan.

# 52 Honor Cadets Given Jet Training at Perrin

(Continued from Page 1)

Weighted down with his parachute, Mae West and crash helmet, Tam clumbed from the cockpit of a T-33 and launched into an enthusiastic sales pitch on jet flying.

"It really gives you a smooth ride," he said. "It's a lot different from the Piper Cubs I've been flying."

Lieutenant Tam, who has 21 hours flying time, said he wants to become an AF pilot when he finishes school. He is a member of Air ROTC and has been a member of the Hawaiian Wing for five years.

Equally sold on the AF, Cadet Capt. David Stoy of Reno, Nev. said that flying a jet "is a lot more fun than propeller planes." He explained he plans to apply for admission to the AF Academy.

TAKING PART in the jet course with the cadets were Col. James J. Mitchell of the Illinois Wing, Lt. Col. T. C. Dantis of the Minnesota Wing, Capt. Philip J. Andrew of the Louisiana Wing and Capt. Warren B. Davis of the Washington Wing.

Both the communities of Denison and Sherman joined with the officers and airmen of this base to welcome the cadets here. Denison citizens entertained at an outing at Lake Texoma while the residents of Sherman staged a western-style barbecue and rodeo for the visitors.

The big, 18th Anniversary Special CAP Times (December Issue) will contain a store of information about the Civil Air Patrol. Send a copy to someone you wish to join the Civil Air Patrol.

# Tucson Unit Wins State Drill Test

(See Photo, Page 1)

TUCSON, Ariz. — The Tucson Sky Queens, a highly polished cadet marching unit, paraded with top honors in the first annual drill competition of the Arizona Wing.

Marching with ramrod precision the team outdistanced another girl cadet unit, the Yuma Saints, and three male units: Prescott, Maryvale and Tucson.

Formed eight months ago, the Sky Queens have gained considerable prominence throughout the State by their drill performance.

The girls thrilled an audience of 5000 persons with their tactics at Armed Forces Day and carried their maneuvers before hundreds of others at the Veterans of Foreign Wars State convention, YMCA, the University of Arizona Aviation Education Workshop and this year's encampment.

Each competing team awarded a Certificate of Achievement.

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LOOKING OVER the flight plan of Cadet David P. Petach of the New Jersey Wing during the Jet Orientation Course at Perrin AFB, Tex. is Capt. George C. Tillett, E Flight commander with the 3556th Flying Training Squadron. The cadets were required to make out a flight plan prior to taking to the air in a T-33 with their instructor.

# Mercy Missions Flown in Four States, District

NATIONAL HEADQUARTERS, Ellington AFB, Tex.—Civil Air Patrol units, operating on wide-spread fronts across the nation, have performed mercy missions in Kansas, Indiana, Kentucky, Washington and Washington State. Extensive search operations by CAP members, four cadets, six mobile units and two station wings into action when the squadron was alerted to come to the aid of the picnickers.

**HAYS, Kan.**—Thomas Gatschet of the Hays Squadron flew a mercy mission to South Bend, Ind. to obtain a highly potent drug to save the life of a mother hemorrhaging at St. Anthony's Hospital here.

The woman was stricken shortly after giving birth to a son and doctors said she was in immediate need of the drug, human fibrinogen.

Doctors explained there was an insufficient amount of the coagulant here, but were advised a sufficient quantity could be obtained at South Bend.

Gatschet volunteered to fly the drug here in time to save her life, hospital officials said, after authorities were unable to contact the State Highway Patrol.

**FORT WAYNE, Ind.**—The Angola Squadron spearheaded an emergency operation to get 750 persons to hospitals and first aid stations after they were stricken with food poisoning at a ranch near here.

Capt. Clarence Lung, squadron commander, ordered 10 senior

members, four cadets, six mobile units and two station wings into action when the squadron was alerted to come to the aid of the picnickers.

**LEXINGTON, Ky.**—Lt. Andrew C. Wallace of the Lexington Composite Squadron made a successful 200-mile medical evacuation mission to London Airport to fly a critically wounded State police detective here for emergency treatment.

The detective, Walter Woods, was wounded in the chest and left hand by a shotgun blast fired by an escaped convict he was attempting to arrest in a remote and mountainous section of Clay County.

Lt. Ernest S. Bush, mission commander, said the request for the mercy flight was made by the Kentucky State Police. Although Lieutenant Wallace flew the evacuation mission alone, seven senior squadron members and one cadet participated in the alert.

**WASHINGTON.**—Fighting his way through low ceilings over mountainous terrain, Lt. Col. Edward D. Nass of the National Capitol Wing flew a cargo of whole blood on an emergency mission to Petersburg, W.Va.

Lieutenant Colonel Nass, deputy for materiel, was at work in a local

automobile firm when the Red Cross informed him that Grant Memorial Hospital had urgently requested an immediate delivery of the blood.

Within minutes of the alert, he was enroute to nearby Beacon, Va. Airport, where the needed blood supply was turned over to him by Fairfax County police.

The blood, dispatched from the local Red Cross chapter was relayed by Metropolitan police to Arlington, Va. and in turn to Alexandria, Va. and then to Fairfax County.

**SARASOTA, Fla.**—Civil Air Patrol pilots and observers flew dozens of search missions here in a valiant effort to locate a small plane reportedly downed in a heavy rain-storm.

Maj. Matt Pilcher, SARCAP commander, said 16 planes and 500 man hours were put into the unsuccessful four-day search.

**LONGMIRE, Wash.**—On a return flight from a medical supply drop to Glacier Research Foundation, Capt. Harold Horn, operations officer of the Washington Wing, and his co-pilot, Charles R. Gorman of Seattle, were killed when their plane crashed near the 12,000-foot level of snow-packed Mt. Ranier.

They had dropped the supplies to Dr. C. T. Bressler, Western Washington State College professor, who injured himself at his mountain outpost. He later died of a heart ailment on the mountain. Nearly 200 CAP personnel, 20 aircraft, 20 vehicles, 12 mobile units and eight fixed radio sta-

tions took part in the search to find the fliers.

**FLINT, Mich.**—Civil Air Patrol pilots and observers manning some 50 planes teamed up with ground units near here in an extensive search for three residents of this city reported missing in their small plane.

Lt. Col. Benjamin F. Miller, commander of the Flint Squadron, and other authorities believe the plane was caught in a violent thunderstorm between here and St. Ignace.

**TWIN FALLS, Ida.**—The Idaho Wing, under the command of Col. Jack Farrar, travelled more than 4000 miles on disaster relief missions after a severe earthquake jolted this area and Yellowstone National Park.

Colonel Farrar said that more than 500 man-hours were consumed during the extensive relief missions.

**PORTLAND, Me.**—Pilots and observers manned some 40 planes here in an all-out effort to locate a Massachusetts flier missing for several days.

Col. Norton H. Lamb, Maine wing commander, said the SARCAP mission was the largest and most concentrated in the history of the organization.

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A PRECIOUS cargo of whole blood is being handed to Lt. Col. Edward D. Nass, right, of the National Capitol Wing by Officer Lynwood Jackson of the Fairfax County, Va. police prior to a mercy flight to West Virginia. Lieutenant Colonel Nass piloted his plane through a heavy storm to complete his mission. (Photo by Rich.)

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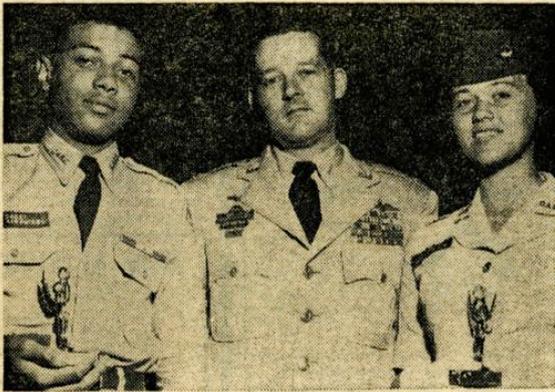
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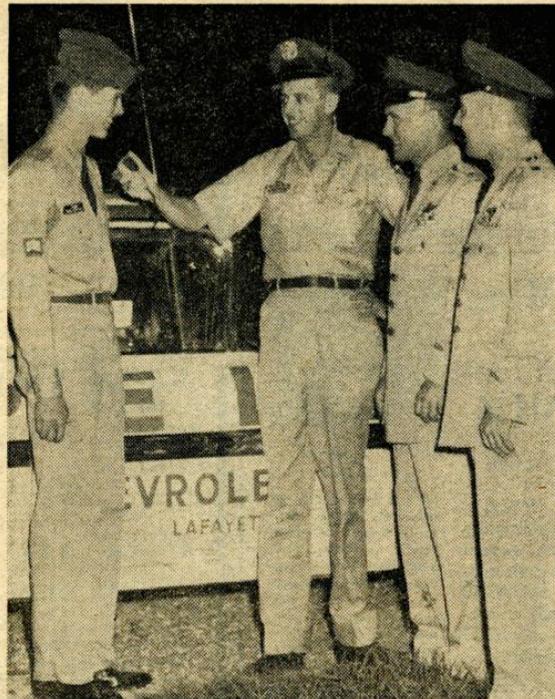
# CAP News in View



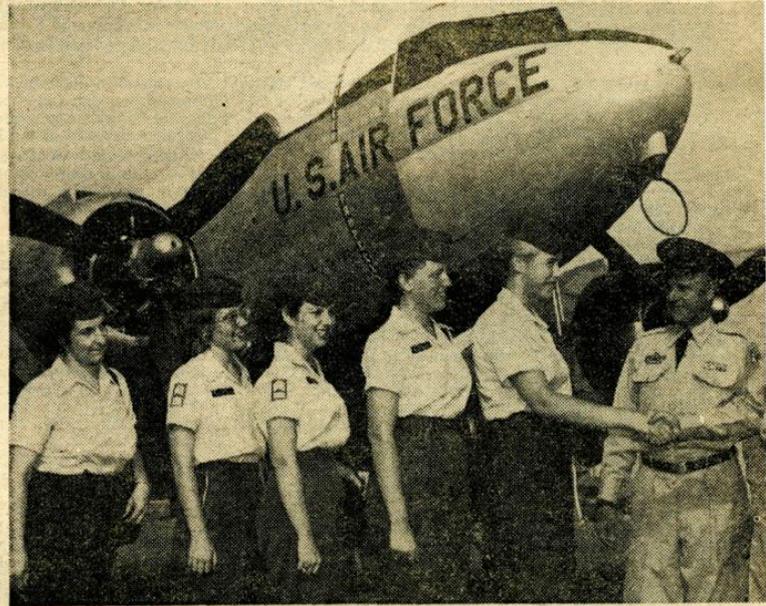
AN EXPRESSION of delight lights the face of Cadet Asa Worchester Jr., a member of the Westbrook Squadron, Maine Wing, as he sits at the controls of a Loring AFB, Me., pilot training cockpit. TSgt. Walter J. Stank, training instructor, gives assistance while Cadet John Washington, center, of the Sanford-Springvale Squadron and Russell Dixon of the Caribou Squadron, await their turn.



OUTSTANDING cadets of the Pennsylvania Wing encampment are shown with Lt. Col. John H. Hill, encampment commander, after they were awarded trophies for their accomplishment. They are Cadets Otto Threawt and Charlotte Gordon, both of Philadelphia.



SWORN IN during special ceremonies at Lafayette, La., Cadet Michael Nemsek of the Lafayette Composite Squadron became the first cadet in south central Louisiana to join the AF after earning his Certificate of Proficiency. He was interviewed on television and radio and was guest of honor at a special dinner. Interviewing Cadet Nemsek is Maj. John E. Phillips, squadron commander. The other officers are, left to right, Maj. Edward Christensen, LO, and Capt. Joseph Roche, AF recruiting officer.



FOUR HONOR cadet escort officer from Pennsylvania Wing are welcomed by Washington Wing cadets for a 12-day tour of the Evergreen State. Maj. Roy, acting deputy commander, second right, and Capt. Huckers of Yakima Wing are the visitors. Left to right: Maj. Rainette Heister, commander Southern Area Wing, Los Angeles; and Capt. Thiel, Hollywood Squadron; Marti Stair, Squadron Leader; Pauline Smith, San Fernando; and Woodman, California headquarters.



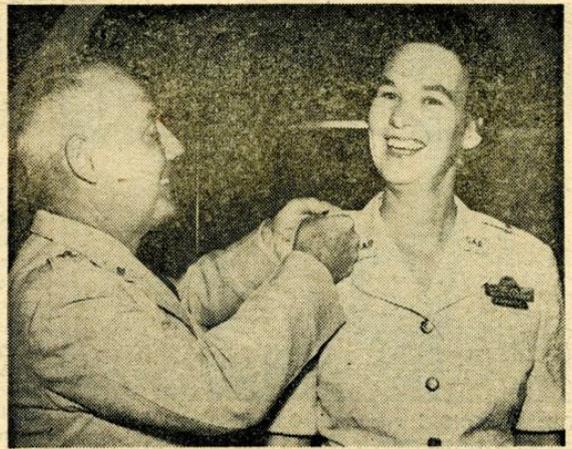
A WACO bi-plane, the type used to train fledgling pilots years ago, still gives thrills and excitement to cadets of the Tacoma Squadron, Washington Wing. Squadron Commander Charles E. Young, the pilot, and Cadet Betty Call are about to take-off on an orientation flight and some basic maneuvers and acrobatics.



IT'S A GREAT life for Ruth Currier of the Tacoma County Squadron, Washington Wing, as she prepares for the cockpit of a T-6 bi-plane for her first jet flight as a cadet. She is being judged the best pilot in her unit. She is the daughter of Lt. Col. Wendell Currier, who is attached to SAC, Portland Wing, T.



CHOSEN as the outstanding cadets of the Ohio Wing summer encampment were Ellen Harding, a member of the Wright-Patterson AFB All-Girl Squadron and Robert Kelley, a member of the 106th Highland Squadron, Cincinnati. They are being congratulated by Brig. Gen. John D. Howe, commander of Wright-Patterson AFB.



THIS IS a family affair as Maj. Gen. Eugene P. Mussett, commander of Lowry AFB, Colo., pins the bars of a warrant officer on the uniform of his wife when she became a member of the Colorado Wing. Mrs. Mussett was assigned as assistant deputy of cadets.



THE NOMENCLATURE of a home-made rocket is explained to Dr. Mervin K. Strickler, Jr., chief of aviation education at national headquarters, right, by Capt. B. R. Brinley, ISO of First Army Headquarters, during amateur rocket firing exhibition at Camp A. P. Hill, Va. The cadets looking on are, left to right, George K. Berger, Far Rockaway, N.Y.; Michael Beltran, Brooklyn, N.Y.; Paul Murad, Hunter Squadron 3, N.Y. and Robert Laurie, Nassau Group, N.Y. The rocket gear belongs to Cadet Beltran who has been building missiles with amateur groups for two years. (CAP photo by TSgt. James Wray.) See story on page 1.



THE LONG and the short of it bring smiles to the faces of these Montana Wing cadets attending an encampment dance at Malmstrom AFB, Mont. Escorting his partner, Cadet Donna Lordemann (5-foot-11) of the Helena Squadron, is Cadet Clarence Erickson (4-foot-8) of the Lake County Squadron.

**CAMERA**

# Anso Hikes Ratings of Two Films As A.S.A. Studies Safety Factor

By JACOB DESCHIN

**I**F YOU have been looking in vain for a way out of the exposure index dilemma, take heart. The time has come when the film makers, admitting the error of their ways in rating films too low, thereby inviting overexposure, are finally revising the indexes upward for more accurate exposure and improved picture results in consequence.

The first official step in this happy direction has been taken by Anso of Binghamton in an announcement that it has revised its list of black-and-white speeds in anticipation of an up-coming change in the American Standard Association's method of establishing film speeds, which film manufacturers have been using. Anso's list simply eliminates the "safety factor" which has caused all the trouble.

"The present A.S.A. method for determining exposure indexes is based on first determining the minimum negative exposure necessary to produce a quality print and then adding a one and one-third safety factor," the announcement says.

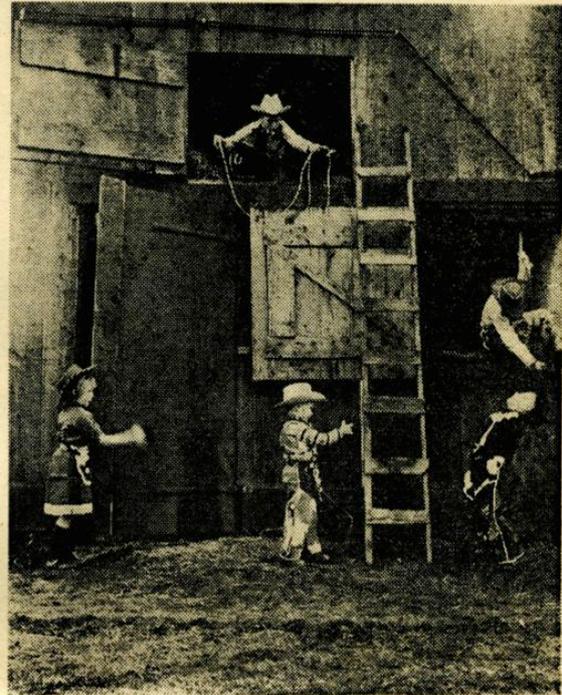
"This means that most negatives are overexposed by one and one-third stops, and consequently are denser than is necessary for quality reproduction. We have long known that less exposure, as long as it is sufficient to provide adequate shadow detail, results in finer grain, better resolution and acutance (image edge definition, or sharpness), and generally better quality."

Accordingly, Anso has increased its ratings of Super Hypan and All Weather Pan, the company's amateur films, to 500 and 125 when used in daylight, and 400 and 100 in artificial light. Until now, the A.S.A. ratings for these films have been 200 and 160 for Super Hypan, 50 and 32 for All Weather Pan. Anso stresses that only the ratings have been changed; the emulsions remain the same. Color film indexes are not affected by the change because these ratings have never included the safety factor.

Two major reasons are responsible for the upward revision. One is the constant badgering of the film makers by technically-minded photographers who have insisted that the ratings are too low and the safety factor not only unnecessary but actually a cause of improper exposure. The other is the argument that if the correct ratings (without the safety-factor plus) have worked with color film, they should work equally well with black-and-white.

Anso is actually jumping the gun. The new American Standard has not yet been published, but the committee concerned, it is learned, has agreed on the change and publication is expected shortly. Because all the manufacturers are involved, it is assumed that the revision will be applied industry wide.

For the average amateur who has become confused by the conflicting speeds discussed in the



AMONG the photographs depicting aspects of American life on view in the American exhibition in Moscow is this arranged shot by Carter Jones. Although it easily is classed as a "busy" picture, careful placement of the individual figures gives it the appearance of a diorama.

photographic press from time to time, the new standard will mean a welcome end to a plaguing situation.

**THE ISSUANCE** of the 1960 Photography Annual (New York: Ziff-Davis Publishing Co. 244 pages, \$1.25), just out, rounds out a highly successful decade of reporting on the world's photographic output, with the principal emphasis on American activity. Since its initial edition in 1950, editor and publisher Bruce Downes points out in an introduction, 3,500,000 copies (an average of 350,000 a year) have been sold, with an estimated audience of about 15,000,000.

The present issue, like the preceding numbers, reflects a conscientious editorial effort to cover the highlights of photographic achievement in various spheres of camera activity. Photojournalism leads the way and inevitably, in these days of eminence, shows its

influence throughout the annual's pages.

Ken Heyman's "Sister of the Bride," an original and touching approach to the overworked field of wedding photography, and Bruce Davidson's "Old Woman of Montmartre," a perceptive essay on loneliness, are outstanding in this category. Also included here are selections from the work of two noted photojournalists who died during the year, Dan Weiner and Lisa Larsen.

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**NATIONAL HONORS** were received by Hawthorne C. Evans, Jr., center, prominent member of the Tennessee Wing, who was named Outstanding Air Reserve Airman of the year. He was also promoted from TSgt. to 1/Lt. in the air reserve. He is shown with Lt. Gen. William E. Hall, left, commander of ConAC, and Brig. Gen. Stephen D. McElroy, national commander, at the AFA national convention at Miami Beach, Fla.

## Tennessee Wing Man Wins Reserve Award

(Continued from Page 1)

named the outstanding teacher of the year in his State.

Lieutenant Evans also served as president of the Morristown Education Association, is president of the Guidance Section of the Tennessee Education Association and is the publicity director of the East Tennessee Elementary Principals' Association.

Another Civil Air Patrol enthusiast to be singled out for national honors was Dr. Frank Sorenson, professor of education at the University of Nebraska. He was presented with the Hoyt S. Vandenberg Memorial Trophy, formerly known as the Air Age Trophy.

Prior to the convention Brig. Gen. Stephen D. McElroy, national commander, addressed a ConAC Commanders Conference and Reserve Seminar and effectively outlined the CAP program and its mission. He also appeared on television to tell the CAP story.

One of the outstanding features of the conclave was a Civil Air Patrol exhibit booth at the Aerospace Panorama which attracted the attention of thousands of delegates and visitors in this resort city. It was manned by cadets and senior members of the Florida Wing under the direction of Lt. Col. George Plant of Fort Lauderdale.

Among those attending the convention were Maj. Gen. Lucas V. Beau, former national commander; Col. D. Harold Byrd, chairman of the national executive board; Dr. Mervin K. Strickler, chief of aviation education at national headquarters; Gill Robb Wilson, one of the founders of CAP and editor of Flying Magazine, and Capt. James J. Ves'sells, assistant director of information services at national headquarters, who was CAP-AFA project officer.

Secretary of the Air Force James H. Douglas and Gen. Thomas D. White, AF chief of staff, delivered the major convention speeches.

## Three New Texts Readied By National Headquarters

ELLINGTON AFB, Tex. — Operations and facilities are now complete at national headquarters

### Press Praises Move to Texas

HOUSTON.—The Houston Post has editorially praised the move of national headquarters from Washington to this city.

The editorial said: "Houston is glad to welcome back to Texas the headquarters of the Civil Air Patrol which began operations at Ellington Air Force Base after a transfer from Bolling Air Force Base, Washington, where headquarters had been maintained since 1946.

"As a volunteer civilian auxiliary of the Air Force which carries out search and rescue missions and also sponsors a nationwide program to promote interest by civilians in flying, CAP performs an important function for both the Air Force and the nation.

"Houston is proud that the organization's operations are now centered in this area and that Ellington was chosen as the site."

to distribute three recently published Civil Air Patrol texts, according to Dr. Mervin K. Strickler Jr., chief of aviation education.

Among the texts is a book entitled The Dawning Space Age which features articles on rockets, missiles and astronautics. The other two are written especially for senior members to aid them in training programs.

One, entitled Leadership in Management, Administration and Staff Organization, gives a background of leadership and management problems. It contains photographs indicating job performance and the responsibilities of CAP members.

The other, Aerospace Orientation, is written for senior members and gives the pilot and non-pilot an insight into the many phases of aviation. It also includes background concerning the industrial, economic, political, international, social and military aspects of aviation.

This book will replace the text entitled The Problems of Air Power, which was used by senior members as a training requirement. It will still be used, however, by cadets, Dr. Strickler said.

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OF AMERICA

Credo

**STAMPS AND COIN**

# U.S. Stamps to Carry Statements of 'Ideals'

By **BILL OLCHESKI**

Stamp and Coin Editor, Air Force Times

**T**HE UNITED STATES will issue a series of stamps beginning in 1960 which will carry statements of American ideals by leaders in our history.

The series, known as the "American Credo" stamps, will be issued beginning in January. Six stamps in the series are planned for 1960. Issue will be spaced during the school year, to provide maximum utilization in school programs.

Each stamp will carry a message in a design similar to that used in Colonial currency. The design will include a decorative border, the text and signature of the writer, and a symbolic device.

The first of the series will feature George Washington's statement, "Observe good faith and justice toward all nations."

Other stamps in the series will carry statements by Thomas Jefferson, Benjamin Franklin, Patrick Henry, Francis Scott Key and Abraham Lincoln.

Printing on the first stamp, a four-center, will be in red and blue on white. An initial print order of 120 million will be authorized for each stamp in the series.

**OFFER.** Confused about state abbreviations? Send a stamped, addressed envelope to Stamp Editor, CAP Times, 2020 M St. N.W., Washington 6, D.C., and receive free a handy wall chart giving the abbreviations.

**AIRMAIL.** The Statue of Liberty will be featured on a new 15-cent airmail stamp scheduled for release November 20. This will replace the 15-cent airmail now in use. It was issued in 1947.

First day ceremonies will be in New York City in conjunction with the National Postage Stamp Show of the American Stamp Dealers Association.

The stamp is printed in orange and black. Issue will be in sheets of 50.

New designs for the 10 and 25-cent international airmail stamps featuring the Liberty Bell and the head of Abraham Lincoln also are being prepared. The date, place of issue, design details and color will be announced later.

First day cover orders on the 15-cent stamp go to the postmaster at New York, N.Y.

**UAR.** The United Arab Republic will issue a commemorative on October 20 in observance of Army Day.

**BARGAIN?** Several readers have asked about an offer currently being made by distributors of a coin folder. The firm sells the folder for a nominal fee, then offers to buy it back at considerably more than the purchase price. The purchaser is required to fill the folder with certain specified coins and return it to the company to get his "reward."

A quick look at the coins on the list explains how this is possible. Many of the coins required are in the scarce or rare category and would be worth many times the "reward" offered for their return to the company.

**DEEPFREEZE.** Navy Post Offices again are offering collectors a chance to get covers postmarked at Byrd and South Pole Stations in Antarctica.

Collectors wanting a postmark from Byrd and South Pole stations must send self-addressed envelopes with U.S. postage affixed to Deep Freeze Philatelic Mail, Construction Battalion Center, Davisville, East Greenwich, R.I.

All covers must be mailed to reach East Greenwich by Oct. 15, 1959. Covers will be returned during the first months of 1961.

**SEND NEWS** of stamp and coin interest to Stamp Editor, CAP Times, 2020 'M' St., N.W., Washington 6, D.C.

US

AIR MAIL

15c

LIBERTY FOR ALL

THE NEW airmail stamp scheduled for issue on November 20. It replaces one in use since 1947.

# Cadets Tell Of IACE Adventures

OMAHA, Neb. — Life certainly had its exciting moments for Cadet Ralph L. Williams of Scottsbluff, who toured Swiss aviation circles last summer under the IACE program.

He was the first of his group to solo a glider and he landed on an Alpine glacier in a piston engine plane.

On his return home, Cadet Williams said that Swiss gliders are towed to an altitude of about 3000 feet and then gracefully soar to about 7000 feet.

"It's all very simple and safe," he said when asked to recount his glider experience in Switzerland. "Our airfield was just like a pasture and you just slid in on the grass." He explained that all American IACE cadets in his group received glider instruction overseas.

A similar glider program for cadets is being jointly sponsored in the United States by CAP and Pan American World Airways in a move to foster aviation interest. Such a program is already off the ground in Hawaii.

**CADET** Williams landed on the Alpine glacier in a plane piloted by Herman Geiger, who a few days later made a hazardous flight to rescue Thomas Fisher, an Omaha mountain climber.

Other cadets of the Nebraska Wing who picked up opinions in scattered parts of the world are John D. Ryan, Jr., son of Major and Mrs. John D. Ryan of Offutt AFB; Richard H. Day of Overland Park; Ted A. Sheil of Council Bluffs and Lloyd Lank of Wichita.

Cadet Ryan, who was a guest in Santiago, Chile, said that he attended "lots of parties and met many pretty girls, but this was coupled with serious visits to Chilean military installations.

"Their AF is patterned after that of the United States," he said. "It is equipped with B-26 bombers and War II F-80 jets."

Cadet Ryan, who has started his sophomore year at Rice Institute in Houston, Tex., added that his visit to Chile had "considerably improved my Spanish."

Portugal was the host country for Cadet Day, who remarked that "with only three air bases, they have a small, but very good air force."

**CADET** Sheil, on his return home from England, wore RAF surlans complete with a set of RAF wings. He explained that the wings were presented to him by an RAF officer as a token of friendship.

Also on the IACE tour to England was Cadet Lank, who said "the people there were just swell to us." He explained that his group had toured many installations in the British Isles "and we saw much that ordinary tourists would not see."

# Letters to the Editor

(Continued from Page 4)

Crow Wing County such a thoroughly enjoyable one.

Previous mention was given all organizations, excepting the Brainerd Rotary Club, whose confirmation arrived just late for publication. The Rotary Club furnished a house boat and pontoon boat, with cases of soft drinks, for a most enjoyable river cruise.

While in this country, the British Cadets stayed at the Waldorf Astoria in New York City, the Twin Cities, Rochester, Duluth, Crow Wing County and Washington, D.C.

These 25 Cadets were picked from many thousands of Cadets from Britain, Ireland and Scotland. The Cadet from Ireland was picked from 12,000 Cadets.

This was one of the finest groups of young people that I have ever been associated with, including their escort officers, and it was indeed an honor that the U.S. Air Force and Civil Air Patrol Headquarters asked our Squadron to act as host to these visitors for four days of their visit to this country.

P. S. Capt. Bob Vranish of Ironton, home on leave from a parachute school which he runs, gave the Cadets a lecture at the airfield, on Sky-Diving and parachuting.

EUGENE J. STANICH  
1st Lt. CAP

**Statistics**

STILLWATER, Minn.—A recent national airport survey has re-

vealed some rather startling figures for our own Lake Elmo airport.

In a four-day period of time, covering Thursday through Sunday, nearly 500 landings were made. This indicates that approximately 25,000 landings per year are made at Lake Elmo.

When one considers that there are nearly 7,000 airports in the United States, the Lake Elmo average gives one some idea of the flying being done in our country. This, to say nothing of military flight activities.

The nation-wide survey was done in cooperation with the Civil Air Patrol and the Stillwater squadron completed both Lake Elmo and Rice Lake, Wis. Minnesota now has over 700 members in the CAP while there are over 500 cadets.

This places our state twelfth highest in CAP memberships and is one of the more active states nation-wide.

Its functions in service during emergencies, safe-guarding our nation, and flight training, are quietly carried on in this community as well as in hundreds of others.

The Stillwater squadron of the Civil Air Patrol meets regularly at 8:00 Wednesday evenings at its own quarters on the Lake Elmo airport.

It invites everyone to visit the Lake Elmo airport at any time and view the activity therein. Air traffic is a "thing of the future." Learn more about it.

DR. JAMES F. LEE

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Blue Frame Service Hat with Gray Cap Cover... 14.95  
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-All Ike Jacket or Coat... 9.95  
Sizes- Flight Slacks or Skirt... 9.95  
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# CAP News Briefs

## Fills In at Headquarters

HOUSTON, Texas.—The first Civil Air Patrol member to make a special visit to the new national headquarters was Lt. Col. Gayle K. McDonough, coordinator for women in the North Central Region. While her husband, Lt. Col. James P. McDonough was at Ellington AFB as wing inspector for the 434th Troop Carrier Wing, she took over the duties of Lt. Col. Pauline Hacker, who was transferred to the Pentagon.

## New Communications System

WASHINGTON.—Secretary of the AF James H. Douglas recently tapped a gold key at the Pentagon to activate a communications network linking most AF communications stations throughout the world to meet jet age operational requirements. The present volume of the network is 15 million words a day, but when the system is completely finished later this year it will handle 130 million words a day.

## Need for Local Airport

CHESTER, Pa.—A campaign to have an airport constructed in Delaware County is being headed here by Maj. F. F. Long III, commander of Delaware County Group 100. He has pledged the support of the local Civil Air Patrol to cite the need for a "local" airfield.

## Recognition Given Cadet

HARRISBURG, Pa.—Gov. David I. Lawrence warmly praised Cadet Louis J. Meoli of Norristown, Pa. for publicizing the merits of the Keystone State during his recent visit to Sweden under the IACE program.

The Governor through his chief secretary, Otis B. Morse, informed Cadet Meoli that he believes the cadet program "is of the highest value in developing good citizenship among the youth of our State and I hope that you and all other cadets will continue to be "Ambassadors" of the Commonwealth of Pennsylvania.

## LeMay Lauds AF Personnel

PENTAGON.—Marking the 12th anniversary the AF became a separate military service, Gen. Curtis LeMay, USAF vice chief of staff, commended AF personnel serving at bases around the world for their loyalty, initiative and efficiency. He issued the birthday message in the absence of Gen. Thomas D. White, USAF chief of staff.

## Completes Rigid Air Course

MAXWELL AFB, Ala.—Lt. Col. Louise M. Thaden, Coordinator for Women's Activities of the Middle East Region and chairman of the National Commander's Training Committee, recently completed the Command and Staff School correspondence course offered by the Extension Course Institute of Air University. Only 34 of some 3500 CAP members taking ECI training are enrolled in this high level course.

## Promotion Brings New Job

Col. Phillip F. Neuweiler, commander of the Pennsylvania Wing, announced the promotion of Maj. John H. Hill to the rank of Lieutenant Colonel and his assignment as permanent encampment commander. A member of CAP for 16 years, Lieutenant Colonel Hill is the first former cadet to serve in his new post.

## Starts Aviation Career

PHOENIX, Ala.—Cadet Capt. James R. Wilhelm, former cadet commander and cadet advisor to the Maryvale Squadron, has started his AF career as an aviation cadet. A private pilot, he was awarded the Aborne Trophy last year for being the outstanding cadet in his squadron.

## Cadet Interpreter Aids at Games

SKOKIE, Ill.—Cadet Lt. Harvey Sarnat of the local CAP composite squadron acted as an official interpreter during the recent Pan American games at Soldiers Field, Chicago. Working with officials, athletes and newsmen covering the games, Cadet Sarnat won praise for his accuracy.

## Cadets Win Ribbons

TOPEKA, Kan.—Col. James L. Flanagan, commander of Forbes AFB, presented 17 cadets of the Forbes Squadron with achievement ribbons at special ceremonies here. The AF officer delighted the audience when he explained he has long been a member of CAP.



NEWSPAPERMAN, editor, lawyer, soldier and educator sums up the career of Lt. Col. Joseph H. Friedman, who has been assigned to national headquarters as director of information services. Prior to his assignment to national headquarters, he was Director of Internal Information, ConAC, and was editor of the Air Reservist Magazine.

## Prices Listed For Authorized Uniform Items

NATIONAL HEADQUARTERS, Ellington AFB, Tex. — The following uniform items are authorized for sale to members of the Civil Air Patrol at Clothing Sales Stores. All of the items must be purchased with cash.

MEN	
ITEM	PRICE
Buckle, Web, Belt	.12
Belt, Waist, Web	.25
Cap, Flight	1.30
Cap, Service	3.75
Cap, Sage Green or HBT	.50
Coat, Wool, Blue	21.40
Cover, Raincap	.35
Glove, Shell, Leather	1.75
Jacket, Wool, Blue	13.25
Jacket, Bush, Shade Tan 503	6.85
Necktie, Wool	.40
Overcoat, Wool, Blue	27.00
Raincoat, Blue	11.50
Scarf, Wool	1.45
Shirt, Flannel, Blue	1.80
Shirt, Oxford	2.00
*Shirt, Poplin	.90
**Shirt, Cotton, Khaki	2.90
Shirt, Shade Tan 503	2.10
Shirt, Sage Green	2.00
Shorts, Shade Tan 503	2.50
**Suit, HBT, All-Piece	3.15
**Trousers, Cotton, Khaki	3.15
Trousers, Shade Tan 503	3.15
Trousers, Sage Green	3.15
Turtleneck, Shade Tan 503	2.10
Bag, Duffel	2.10
*Shirt, Poplin, will be supplied until exhausted, at which time, the Shirt, Oxford will be utilized.	
**Cotton Khaki Shirt and Trousers will be supplied until exhausted, then utilize Shirt and Trousers, Shade Tan 503.	
***Suit, HBT, supply until exhausted, then utilize Shirt and Trousers Sage Green or Shirt and Trousers, OG 107.	
WOMEN	
ITEM	PRICE
Cap, Exercise	.75
Cap, Garrison	2.35
Cover, Hat, Blue and White	.35
Cover, Hat, Winter Gray	1.60
Coat, Wool, Blue	21.00
Frame, Hat, Dress, Blue	4.00
Gloves, Cotton, Gray	1.70
Gloves, Cotton, White	1.15
Handbag, Leather, Black	10.00
Jacket, Cotton Cord	5.50
Jacket, Wool Blue	15.25
Overcoat, Wool, Blue	39.25
Raincoat, Nylon-Rayon, Blue, W/Hood	12.25
Scarf, Gray	1.10
Shirtdress, Field, Ctn, Chambray, Blue Long Sleeve	2.00
Shirtdress, Field, Ctn, Chambray, Blue Short Sleeve	1.55
Shirtdress, Oxford Cloth, Blue	2.00
Shorts, Exercise	2.00
Skirt, Exercise	2.30
Skirt, Cotton Cord	2.50
Skirt, Wool, Blue	5.75
Slacks, Wool Blue	9.10
Slacks, Exercise, Blue	4.05
Sweater	6.50
Overshoes, High Slide Fastener	2.80
Gloves, Cotton, Gray, FSN 8445-261-4718 thru 8445-261-4718, will be supplied until exhausted, priced at \$1.29. When exhausted, supply FSN 8445-273-2738 thru 8445-273-2798, priced at \$1.70.	
**Shirtdress, Cotton, Chambray, Long Sleeve will be supplied until exhausted. When exhausted, supply Shirtdress, Cotton, Chambray, Short Sleeve.	

## CAP ORDERS

### GENERAL ORDERS

#### Distinguished Service Award

CAMPBELL, Mollie B., Lt. Col., Nebraska Wing, is awarded the Distinguished Service Award for period 1 January 1957 to 1 August 1959.

PAYNE, Harold C., Lt. Col., Nebraska Wing, is awarded the Distinguished Service Award for period 1 January 1957 to 1 August 1959.

RASCHE, Gerald W., Lt. Col., Nebraska Wing, is awarded the Distinguished Service Award for period 12 December 1957 to 1 August 1959.

CAHOCCI, Albert Jr., Maj., Connecticut Wing, is awarded the Distinguished Service Award for period 12 December 1957 to 1 August 1959.

#### Exceptional Service Award

MARES, Emil H., Lt. Col., Nebraska Wing, is awarded the Exceptional Service Award for period 1 January 1958 to 1 August 1959.

KATZENBERGER, Henry Jr., Maj., Nebraska Wing, is awarded the Exceptional Service Award for period 1 January 1958 to 1 August 1959.

#### Appointments

BYRD, D. Harold, appointed chairman ex-officio of the National Legislative Committee.

FONDA, A. Paul, Col., appointed chairman of the National Legislative Committee.

ST. LEWIS, Roy, Col., appointed to the National Legislative Committee.

DONOHUE, J. Joseph, Col., appointed to the National Legislative Committee.

CAREY, John M., Detroit, Mich., appointed honorary member of Civil Air Patrol.

O'NEIL, Robert L., Col. (temp), is appointed Acting Commander of Georgia Wing.

#### Meritorious Service Award

BLEVINS, Francis A., Col., Great Lakes Region, is awarded the Meritorious Service Award for period 10 September 1957 to 10 September 1959.

HAMMOND, John S., Lt. Col., Great Lakes Region, is awarded the Meritorious Service Award for period 4 September 1956 to 10 September 1959.

KAYE-SMITH, Elliott, Lt. Col., Great Lakes Region, is awarded the Meritorious Service Award for period 12 March 1958 to 10 September 1959.

DICKS, Carl, Maj., Great Lakes Region, is awarded the Meritorious Service Award for period 24 August 1958 to 10 September 1959.

ROSE, Gordon P., Maj., Great Lakes Region, is awarded the Meritorious Service Award for period 15 May 1957 to 10 September 1959.

WILLIAMS, Marjorie L., Maj., Great Lakes Region, is awarded the Meritorious Service Award for period 1 January 1957 to 10 September 1959.

MUTH, Carl R., Capt., California Wing, is awarded the Meritorious Service Award for period 18 August 1958 to 5 June 1959.

MUTH, Wilma B., Capt., California Wing, is awarded the Meritorious Service Award for period 14 June 1954 to 5 June 1959.

WALKER, Norma S., Capt., California Wing, is awarded the Meritorious Service Award for period 1 January 1958 to 1 August 1959.

BEYER, Eugene R., 1/Lt., Kansas Wing, is awarded the Meritorious Service Award for period 1 December 1958 to 1 August 1959.

HAMILTON, William H., 1/Lt., Washington Wing, is awarded the Meritorious Service Award for period November 1958 to 4 September 1959.

HANSEN, Eugene, 1/Lt., South Dakota Wing, is awarded the Meritorious Service Award for period 1 April 1958 to 29 July 1959.

ERDMAN, Richard C., WO, South Dakota Wing, is awarded the Meritorious Service Award for period 1 August 1958 to 31 July 1959.

SPOONHOLTZ, Joy A., WO, Iowa Wing, is awarded the Meritorious Service Award for period 10 April 1958 to 5 August 1959.

JAMESON, Russell D., Lt. Col., Missouri Wing, is awarded the Meritorious Service Award for period 9 June 1958 to 25 August 1959.

LADD, Evelyn S., Lt. Col., Missouri Wing, is awarded the Meritorious Service Award for period 15 January 1955 to 25 August 1959.

VENABLE, Mildred I., Capt., Missouri Wing, is awarded the Meritorious Service Award for period 9 September 1949 to 25 August 1959.

VENABLE, Mildred I., BM, Missouri Wing, is awarded the Meritorious Service Award for period 27 December 1957 to 25 August 1959.

#### First Bronze Clasp to Meritorious Service Award

NEWGORN, Cecil M., Lt. Col., Kansas Wing, is awarded the First Bronze Clasp to the Meritorious Service Award for period 28 November 1957 to 1 August 1959.

KINNEY, Marjorie A., Maj., Kansas Wing, is awarded the First Bronze Clasp to the Meritorious Service Award for period 28 November 1957 to 1 August 1959.

### PERSONNEL ORDERS

#### Northeast Region

Appointment or Promotions:

FENTON, Donald T., 2/Lt., Air Insp Massachusetts Wing.

FICKETT, Marvin M., 2/Lt., Comm O Sudbury Cdt Sq, Mass.

FLIGG, Charles P., 1/Lt., Exec O Somersworth Cdt Sq, Mass.

FROST, Josiah F., 2/Lt., Adm O Group 6, Mass.

GRAHN, Rupert W., Maj., Adm O Massachusetts Wing.

JULIAN, James W., 1/Lt., Ops O Boston Comp Sq, Mass.

KELLY, Howard C., 2/Lt., Ops O Group 6, Mass.

LACOMBE, Euclidea J., 2/Lt., Ops O Group 6, Mass.

MACOLY, Frank B., 1/Lt., ISO Massachusetts Wing.

LOBISSER, Robert F., Capt., Exec O Group 4, Mass.

McLAUGHLIN, Edmund J., 1/Lt., C/D Merrimack Vly Comp Sq, Mass.

MacLEAN, James W., 2/Lt., ISO Merrimack Vly Comp Sq, Mass.

MORIN, John A., 2/Lt., Ops O Group 6, Mass.

NELSON, Richard G., Capt., ISO Northampton Comp Sq, Mass.

PANOPoulos, Harry, 2/Lt., Tog O Merrimack Vly Comp Sq, Mass.

PERKINS, Elmer N., 2/Lt., Ops O Group 6, Mass.

RAYNOR, John A., 1/Lt., Comm O Sudbury Cdt Sq, Mass.

RHODES, Norman A., 1/Lt., Adj Waltham Boys Club Cdt Sq, Mass.

RICE, Harry C., 2/Lt., Ops O Group 6, Mass.

RYAN, Ernest A., 2/Lt., Insp Group 6, Mass.

SILVERSTEIN, Robert D., 2/Lt., IS Middlesex Cdt Sq, Mass.

VACCHIA, Thomas F., 2/Lt., Adj Group 6, Mass.

WAKEFIELD, Lothrop H., Maj., Mon Massachusetts Wing.

WARIAS, Theodore B., 2/Lt., Sup O Merrimack Vly Comp Sq, Mass.

WHITE, Charles R., 2/Lt., Trans O Boston Comp Sq, Mass.

WISEMAN, Frances D., 2/Lt., A/Adj Tewksbury Comp Sq, Mass.

WISSELMAN, Lucien A., 2/Lt., ISO Hooksett Comp Sq, N H.

BURNHAM, Delbert A., 1/Lt., Tog O Hooksett Comp Sq, N H.

COTE, Joseph A., 1/Lt., Sup O Salem Comp Sq, N H.

DAVIS, Stewart G., 1/Lt., C Cds Lebanon Comp Sq, N H.

FLETCHER, Emerson K., 2/Lt., C/Cd Nashua Comp Sq, N H.

KATTEN, Stanley L., Maj., Tog O Franklin Comp Sq, N H.

LOVELL, Irma C., 2/Lt., Fin O Salem Comp Sq, N H.

SCHOFIELD, William R., 1/Lt., Ops O Salem Comp Sq, N H.

SHACKFORD, William H., 2/Lt., C/Cd Hooksett Comp Sq, N H.

THIBAUT, Henry W., 1/Lt., Adm O Lebanon Comp Sq, N H.

THOMAS, William H., 1/Lt., Ops O Lebanon Comp Sq, N H.

TWITCHELL, Frederick, 1/Lt., C Cds Bosc Comp Sq, N H.

ADAMOFF, Oscar J., 2/Lt., Saf O Teterboro Comp Sq, N J.

ALBANY, Anthony S., Maj., Comdr Delaware Vly Comp Sq, N J.

AMBROSE, Charles B., Maj., Comdr Delaware PK Comp Sq, N J.

ALBRECHT, Albert A., Capt., Comdr Camden Comp Sq, N J.

BEDDIGES, Donald A., Maj., D/Trans New Jersey Wing.

BEDDIGES, Frederick, Capt., A/Trans New Jersey Wing.

BELL, Frederick S., Lt. Col., ISO New Jersey Wing.

BLANCHARD, Edward F., 1/Lt., Sup O Newark Comp Sq, N J.

BROWN, Earl W., Capt., Trans O Meriden Comp Sq, N J.

CAMPBELL, Anthony P., 1/Lt., Exec O Lyndhurst Comp Sq, N J.

DENNING, Arthur S., Capt., Exec O Newark Comp Sq, N J.

DOTO, Paul, Maj., Comdr Newark Comp Sq, N J.

GREEN, Irving S., 1/Lt., Ops O Newark Comp Sq, N J.

HAINING, David W., Capt., Comdr Atlantic City Comp Sq, N J.

HARRIS, Robert J., 2/Lt., ISO Newark Comp Sq, N J.

HARTSHORN, Stewart, 2/Lt., Saf O Springfield Comp Sq, N J.

HOLMES, John J., Maj., D/Saf New Jersey Wing.

HOWLAND, Charles A., Capt., Comdr Essex Comp Sq, N J.

LUEDDEKE, Edward J., 1/Lt., Ops O Albany Park Comp Sq, N J.

LUMMIS, Edward G., 1/Lt., C/Cds Camden Comp Sq, N J.

MARTINO, Barbara R., 2/Lt., A/Med O Phillipsburg Cdt Sq, N J.

SHADE, Charles S., Capt., ISO Florham Park Comp Sq, N J.

MEGARGLE, Darnell D., 1/Lt., Res O New Jersey Wing.

NOBLE, Ann, 2/Lt., Pers O Brick Township Comp Sq, N J.

PARADISE, Gerald J., 2/Lt., Comm O Florham Park Comp Sq, N J.

PARISH, Sidney A., 2/Lt., A/Adj Newark Comp Sq, N J.

PVLIK, Joseph T., Maj., Comdr Trenton Comp Sq, N J.

REGAN, James H., Capt., C/Cds Meriden Comp Sq, N J.

VENABLE, Werner R., Capt., Exec O Bergen City Comp Sq, N J.

ROSENFELD, Jonathan, 2/Lt., Exec O Bayonne Comp Sq, N J.

SHERMAN, Saul N., 2/Lt., Tog O New Jersey Wing.

SPENCER, Harold A., Maj., Comdr Bergen City Comp Sq, N J.

THEISZ, Robert R., Maj., Comdr Sky Manor Comp Sq, N J.

TIEDJE, Robert Q., Lt. Col., Dp/Cds New Jersey Wing.

VAONEY, Kaiman K., Capt., Comdr Plainfield Comp Sq, N J.

VAONEY, Philomena A., 1/Lt., Adj Plainfield Comp Sq, N J.

VOSSLELLER, Eldon R., 1/Lt., Comdr Blairstown Str Sq, N J.

WALDRON, George R., Capt., Cdt Spa Act New Jersey Wing.

WEIGEL, Richard J., 1/Lt., Comdr Clifton Comp Sq, N J.

WEISER, Charles T., 2/Lt., Exec O Cumberland Comp Sq, N J.

WILLIAMS, Henry Jr., 1/Lt., Leg O Plainfield Comp Sq, N J.

WILLIAMSON, Howell D., Capt., Exec O Dela Vly Comp Sq, N J.

WYNN, Edward D., 1/Lt., Capt., Tog O Staten Island Group, N Y.

FIELDING, Edward J., Capt., Comm O North East Region.

LOREN, John S., Capt., Plans O North East Region.

SAENZ, Frank Jr., Lt. Col., Pers O North East Region.

SCHAETZEL, Robert J., Lt. Col., Comm O North East Region.

ARONSON, Alfred, 2/Lt., Exec O Seaford Comp Sq, N Y.

AUDIN, Gabriel, 1/Lt., Tog O Rockland City Group, N Y.

AYERS, Edward D., 1/Lt., Exec O Coopers town Comp Sq, N Y.

BRANDT, Emily S., 2/Lt., A/Ops O Seaford Comp Sq, N Y.

CHAMBERS, Gladys B., Capt., Adj Elmira Cdt Sq, N Y.

# Commanders Urged To Back WISI Drive

(Continued from Page 1)

taken up the cry for early renewals in a newsletter sent to all members.

Through early renewals, the letter points out, "members will not be receiving continual reminders, the wing and squadrons will not have to keep asking for renewals and that National Headquarters will be in a position to more easily process early renewals before the inevitable last minute rush."

The Civil Air Patrol offers many opportunities to every young man or woman between the ages of 14 and 21. If under 14, the applicant must be enrolled as an active student in high school.

Other requirements include the written consent of parents, a physical examination, average grades in school, being a citizen of the United States and good moral character.

MEMBERSHIP promotion will be left up to individual squadrons, but an exchange of ideas between squadrons can prove helpful and National Headquarters stands by ready and willing to give a boost in the right direction.

Stories and photographs should

revolve around the renewal campaign theme, graphically illustrating new or different ideas to tell the reason current members should remain in the ranks of CAP. This material should be forwarded to CAP TIMES, 2020 M Street, Washington, D.C.



THE FACIAL expressions of these spectators watching the crack AF Thunderbird team go through its paces at the CAP Friendship Days air show at Wilmington, N.C. prove that the jet fliers caused plenty of thrills with their aerial maneuvers. While some point skyward, others look on in amazement. (Photo by John MacNeill.)

# Wilmington Air Show Draws 70,000 Visitors

(Continued from Page 1)

A close-up view of some two dozen military planes which were parked on the airport ramp. The planes included helicopters, jet fighters and bombers, cargo and transport aircraft and a radar-equipped C-121 which was especially flown here from its base in Massachusetts.

The show attracted 311 senior members and cadets from 37 surrounding communities and 16 exchange cadets from the New England area. Nine CAP planes and 38 CAP mobile units were included in the ramp display.

ANOTHER feature on the program was a two-hour aerial display by the Cole Bros. Air Show from Fort Wayne, Ind. Using a Steerman, a Taylorcraft and other light planes, the team did slow rolls, outside loops, stalls, half rolls on take-off and dead stick acrobatics.

Lt. James B. Moore, general chairman of the show, originated CAP Friendship Days last year.

The event is designed, he said, to promote better civilian-military relationships, to offer aviation education and to acquaint the general public with the work and mission of CAP in the community.

In a move to generate interest in CAP Friendship Days, WECT-TV staged a 30-minute show during

which New Hanover County CAP members, cadets and the AF Thunderbirds were interviewed.

Due to the success of the show, Lieutenant Moore said that countless inquiries have been received from persons interested in joining CAP squadrons.

Capt. Neal Kelly was operations officer during the event. He was assisted by Capt. Warren Sanders and A. C. Lacroix, a senior member. Col. D. H. Denton, North Carolina Wing Commander, and Maj. Sidney Wilson, commander of Group Eight, gave advisory assistance.

# Squadron Award Given Lt. Page

SUFFOLK, Va.—Lt. Wallace W. Page, executive officer of the Suffolk Squadron, has been selected as the first winner of the squadron's Outstanding Member Trophy.

His unit cited him for "superior performance" in assigned duties and his "invaluable contributions to the welfare of the squadron through suggestions which have proved to be of great value."

The award is designed to fill the gap between personal commendation from the squadron commander and an award from National Headquarters.

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<input type="checkbox"/> Reader's Digest	1 yr	2.00
<input type="checkbox"/> Seventeen	8 mos	1.97
<input type="checkbox"/> U.S. News & World Report	39 wks	3.67

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# CAP ORDERS

(Continued from Page 12)

CRAWFORD, Robert G., 1/Lt, C/CD New York Wing  
 FINK, Henry W., 2/Lt, Ops O Rockland City Group, N Y  
 GOULD, Arthur W., Maj, Exec O Norwich Cdt Sq, N Y  
 HALL, E. Victor, Lt Col, Exec O Syracuse Group, N Y  
 JAEGER, Rodney, 2/Lt, Exec O Staten Isle Sr Sq 1, N Y  
 KAPLAN, Gerald, 2/Lt, Exec O Floyd Bennett Comp Sq, N Y  
 KNOX, Harry R., Capt, ISO Westchester Group, N Y  
 KRASUSKY, Julian H., Capt, Comdr Peckskill Comp Sq, N Y  
 LENNEBACHER, Jack D., 2/Lt, ISO Cooperstown Comp Sq, N Y  
 NICHOLAS, Harold G., Jr., Maj, Comdr Suffolk Group, N Y  
 NIVER, Guy D., 1/Lt, Fis O Catskill Mt Group, N Y  
 PARKER, Irene G., 2/Lt, Adj Cooperstown Comp Sq, N Y  
 PENFOLD, Phillip G., 1/Lt, ISO Norwich Cdt Sq, N Y  
 PRUNET, Samuel C., Maj, Comdr Orangeburg Cdt Sq, N Y  
 QUINN, Nathaniel, Capt, Ops O Seaford Comp Sq, N Y  
 REIGL, Emil J., Capt, Leg O Staten Island Group, N Y  
 CHAKENBACH, Kenneth, Capt, Exec O St. James Comp Sq, N Y  
 SCHULZ, Edwin P., 2/Lt, Exec O Rockland Comp Sq, N Y  
 SCHWARTZ, Lawrence W., 2/Lt, Fin O Westchester Comp Sq, N Y  
 EBEXEN, Beverly J., Capt, C/W Staten Island Group, N Y  
 EBERSKI, Genevieve L., 2/Lt, Sup O Cooperstown Comp Sq, N Y  
 TRAPANESE, Anthony, Capt, Sup O Staten Island Group, N Y  
 ANDERSON, Ray L., 2/Lt, Comm O Delta City Comp Sq 1005, Pa  
 AUSTIN, Robert J., 2/Lt, A/C/Cdts Lehigh Sr Sq 904, Pa  
 BARRY, Walter L., 2/Lt, Tng O Phila Cdt Sq 1014, Pa  
 BECKER, Albert H., Capt, Sup O Allentown Group 80, Pa  
 BREST, John, Capt, Ops O New Castle Group 1200, Pa  
 BRUNNER, Arthur F., Capt, Tng O Phila Comp Sq 1010, Pa  
 CARP, James E., Capt, A/Leg O Phila Group 10, Pa  
 CHAPPAZAL, Rosemary, 2/Lt, Pers O Group 50, Pa  
 CHIRAPON, Ck, Constantine A., Capt, Chapt Scranton Comp Sq 201, Pa  
 DAVIES, Ivor Jr., 2/Lt, Adj Chambersburg Sr Sq 1503, Pa  
 DUBS, William H., Capt, Inst York Sr Sq, Pa  
 ETHREDGE, Wilfred J., 1/Lt, Comdr Phila Cdt Sq 1014, Pa  
 FELDMAN, Arthur I., Capt, Ops O Allentown Med Sq 805, Pa  
 FRANKOSKY, Rita K., 1/Lt, Comdr Cambria County Comp Sq 505, Pa  
 GAYDOS, Michael J., Capt, Chapt Group 20, Pa  
 GUNGIO, Joseph D., 1/Lt, Tng O Abington Sr Sq 903, Pa  
 GOODMAN, Joseph J., 2/Lt, Tng O Scranton Comp Sq 900, Pa  
 GREENVALD, Arlene K., 2/Lt, Nurse Allentown Med Sq 805, Pa  
 GRUBB, David A., 1/Lt, Exec O Abington Comp Sq 903, Pa  
 HARRISON, Lyle K., 3/Lt, Fil O Greenville Sr Sq 506, Pa  
 HART, Robert L., Capt, D/Comm Group 20, Pa  
 HEYER, Mildred H., Maj, D/Ops Phila Group 10, Pa  
 HINGLEY, J. Ma., 2/Lt, Comdr W. Bucks City Cdt Sq 907, Pa  
 HOELLER, George E., Capt, Tng O Lower Bucks City Cdt Sq 907, Pa  
 HORNEN, Charles F., 2/Lt, A/Comm O Phila Sr Sq 102, Pa  
 JONES, Lowell R., 1/Lt, Insp Group 20, Pa  
 KASIN, F., Lt Colonel, J., Capt, Tng O Sharon Comp Sq 1204, Pa  
 KAUCHER, Edwin K., 1/Lt, Adj No. Penn Sr Sq 904, Pa  
 KESSAR, Walter, Capt, Comdr Dubois Sr Sq 1301, Pa  
 KING, Elizabeth W., 2/Lt, ISO State College Group 1300, Pa  
 KINGSPOROUGH, Charles, Capt, Comdr Carlisle Comp Sq 305, Pa  
 KLING, Nile A., 2/Lt, ISO Chambersburg Sr Sq 1504, Pa  
 KOCH, Ailene B., 1/Lt, Nurse Med Sq 805, Pa  
 KOCHER, Alvin B., Capt, Inst York Sr Sq 301, Pa  
 LOBACH, James F., Lt Col, Adv York Sr Sq 301, Pa  
 LOCKWOOD, Rae W., 1/Lt, C/Cdts Levittown Comp Sq 101, Pa  
 MERICER, Kenneth D., Maj, Exec O Levittown Comp Sq 101, Pa  
 MILLER, Orville J., Capt, Comdr Scranton Comp Sq 201, Pa  
 MYERS, Fred S., 1/Lt, Comdr Mt Union Comp Sq 1504, Pa  
 NICHOLAS, F. Ferrese, Capt, Comm O New Castle Group 1200, Pa  
 NORFORD, Richard W., 2/Lt, Exec O Reading Comp Sq 303, Pa

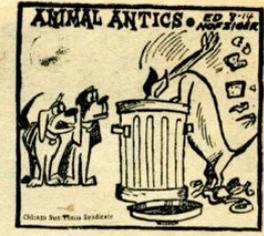
OLSHANSKY, Andrew, 1/Lt, ISO New Castle Group 1200, Pa  
 POOD, William H., 1/Lt, Med O Group 90, Pa  
 PRICE, John H., Capt, D/Ops Group 30, Pa  
 RAPP, Evelyn B., 2/Lt, A. Adm O Phila Sr Sq 103, Pa  
 RATAJ, Jacqueline G., 2/Lt, Adj Chester Comp Sq 1002, Pa  
 RILEY, James E., 1/Lt, Tng O Scranton Comp Sq 201, Pa  
 RIFFEL, James W., Capt, Av Ed O New Castle Gp 1200, Pa  
 ROBINSON, Benjamin W., 2/Lt, Ops O Upper Darby Cdt Sq 1003, Pa  
 RODDA, John L., Capt, Exec O Phila Comp Sq 104, Pa  
 ROMANO, Angelo J., 2/Lt, Ranger Comdr Phila Comp Sq 104, Pa  
 SCHNEIDER, George P., Capt, 37015 Chester Cdt Sq 1002, Pa  
 SCHWARTZ, Charlotte E., 2/Lt, Fin O Phila Sr Sq 102, Pa  
 SCOTT, William S., Capt, Chapt New Castle Gp 1200, Pa  
 SEASE, Ross W., Ranger Comdr York Sr Sq 301, Pa  
 SEIGLE, Earl H., 1/Lt, Comdr Carbondale Cdt Sq 204, Pa  
 SHAFER, Charles M., 2/Lt, Exec O York Sr Sq 301, Pa  
 SHAFER, Clyde W., 2/Lt, Fis O Hamlin Comp Sq 102, Pa  
 SIEGEL, Edward A., 2/Lt, Exec O Pgh Group 60, Pa  
 SILBERLIGHT, Jack W., 1/Lt, Exec O Scranton Comp Sq 201, Pa  
 SOCHOVKA, Albert, 1/Lt, Exec O Scranton Comp Sq 201, Pa  
 SPINER, Catherine, 2/Lt, Pers O Pennsylvania Wing, Pa  
 THORNE, Randall A., Capt, D/Adm Group 20, Pa  
 THORNTON, Robert W., 1/Lt, Leg O No. Penn Sr Sq 904, Pa  
 TRITT, William H., 1/Lt, Sup O Newville Scranton Comp Sq, R I  
 VOGELER, Wilbur W., Maj, D/Mat New Castle Group 1200, Pa  
 WARING, William F., 2/Lt, Adm O Springfield Sr Sq, Pa  
 WILSON, Edwin H., 2/Lt, Fis O Phila Sr Sq 103, Pa  
 WISE, Ruth A., 1/Lt, Adj Phila Group 10, Pa  
 WITTENBRADER, John H., 2/Lt, Trans O Hamlin Comp Sq, Pa  
 BROTHERS, Charles E., Capt, Fis O Prov-Cranston Comp Sq, R I  
 CANTARA, Alphonse J., 2/Lt, Sup O Swanton Comp Sq, R I  
 CROUSE, John W., Jr., 2/Lt, Tng O Prov-Cranston Comp Sq, R I  
 DENIS, Frank, 2/Lt, Fin O Swanton Comp Sq, R I  
 LAMSON, George T., Capt, Tng O Bika Valley Comp Sq, R I  
 ROSKI, Matthew W., Capt, Med O Prov-Cranston Comp Sq, R I  
 VARONE, John A., 1/Lt, Leg O Bika Valley Comp Sq, R I  
 LANGVINE, Dorothy S., 2/Lt, ISO Vermont Wing  
 Appointed Chaplains:  
 YOUNG, Robert F., 1/Lt, Orange County Comp Sq 4, N Y  
 KRAMER, George C., 1/Lt, Phila Comp Sq 100, Pa  
 WHITE, Melvin W., 1/Lt, Springfield Comp Sq, Vt  
 Aeronautical Ratings:  
 BALLOU, Malcolm J., Pilot, Meriden Comp Sq, Conn  
 WELCH, William M., Observer, Connecticut Wing, Conn  
 SPRAGUE, John H., Pilot, Pittsfield Comp Sq, Rie  
 WILHELM, Melville T., Pilot, Brunswick Comp Sq, Me  
 BARRAVACCHIO, Joseph, Observer, Reverse Comp Sq, Mass  
 WILSON, William F., Pilot, Reverse Comp Sq, Mass  
 JARDNER, Robert J., Sr Pilot, Northampton Comp Sq, Mass  
 GREGORY, David T., Observer, Northampton Comp Sq, Mass  
 HANFON, Robert H., Sr Pilot, Group 2, Mass  
 KELLEY, Howard C., Pilot, Group 5, Mass  
 POLLINI, Joseph A., Pilot, Tewksbury Comp Sq, Mass  
 SAVAGE, David C., Observer, Reverse Comp Sq, Mass  
 ST. LAWRENCE, Earl J., Sr Pilot, Northampton Comp Sq, Mass  
 SZEWCZAK, Stanley F., Observer, Northampton Comp Sq, Mass  
 WILSON, Charles R., Pilot, Boston Comp Sq, Mass  
 ZYGMONT, Alfred M., Observer, Northampton Comp Sq, Mass  
 CHAPMAN, Charles S., Pilot, Lebanon Comp Sq, N H  
 DAVIS, Stewart G., Pilot, Lebanon Comp Sq, N H  
 DUGUAY, William P., Pilot, Hooksett Comp Sq, N H  
 MANSFIELD, Donald, Pilot, Manchester Comp Sq, N H  
 PINNOCK, Howard E., Pilot, Hooksett Comp Sq, N H  
 RICE, John T., Pilot, Hooksett Comp Sq, N H  
 TYSON, William B., Pilot, Lebanon Comp Sq, N H  
 BALDWIN, George O., Pilot, Plainfield Comp Sq, N J  
 DECKER, Rickler M., Pilot, Newark Comp Sq, N J  
 GAUNTT, Lloyd W., Pilot, Cumberland Comp Sq, N J  
 GORDON, Milton H., Pilot, Camden Comp Sq, N J  
 KENNEDY, Anthony J., Pilot, Florham Park Comp Sq, N J  
 LINDEMANN, Lillian E., Observer, Springfield Comp Sq, N J  
 GHORS, Walter J., Pilot, Farmingdale Comp Sq, N Y  
 BAUMGARDNER, Calvin, Pilot, Milton Cdt Sq 405, Pa  
 DEPERMENTIER, Alfred, Pilot, No. Penn Sr Sq 904, Pa  
 DONHAUSER, Joseph G., Observer, Group 90, Pa  
 DRANKS, James R., Pilot, Mt. Union Comp Sq 1504, Pa  
 FELTENBERGER, Axel F., Pilot, Mt. Union Comp Sq 1504, Pa  
 GAMBINO, Albert H., Pilot, Ellwood Cdt Sq 1202, Pa  
 GREAVES, Raymond A., Pilot, Milton Cdt Sq 405, Pa  
 HARRISON, Lyle K., Pilot, Greenville Sr Sq 506, Pa  
 HOLLER, Henry Sr Pilot, Lower Bucks City Cdt Sq, Pa  
 HYATT, Paul H., Pilot, Jefferson Sr Sq 806, Pa

James, David T., Sr Pilot, Sharon Comp Sq 1304, Pa  
 KOCHER, Alvin B., Pilot, York Sr Sq 301, Pa  
 WILKES, Jack D., Pilot, Reading Comp Sq 303, Pa  
 MOORE, James J., Sr Pilot, Easton Sr Sq 803, Pa  
 MYERS, Fred S., Pilot, Mt. Union Comp Sq 1504, Pa  
 PRICE, Roy E., Pilot, Mt. Union Comp Sq 1504, Pa  
 PUCHALLA, Joseph E., Pilot, Mt. Union Comp Sq 1504, Pa  
 RAFFENBERGER, Willis E., Pilot, York Sr Sq 301, Pa  
 ROHRER, Merrill W., Pilot, Mt. Union Comp Sq 1504, Pa  
 SMITH, Gibson, Jr., Pilot, York Sr Sq 301, Pa  
 TURNER, Malcolm J., Pilot, Upper Darby Cdt Sq 1003, Pa  
 WEDINGRAD, Richard H., Pilot, No. Penn Sr Sq 904, Pa  
 WILKES, Donald H., Pilot, Levittown Comp Sq 102, Pa  
 BAER, Cecil J., Pilot, Shippensburg Group 1500, Pa  
 BAILEY, James D., Pilot, Swanton Comp Sq, Pa  
 BURGESS, Chester R., Pilot, Bennington Comp Sq, Vt  
 HART, Harry A., Observer, Rutland Cadet Sq, Vt  
 LANGEVAN, Leo A., Pilot, Vermont Wing, Vt  
 PFENNING, Linda A., Observer, Rutland Cadet Sq, Vt  
 PROCTOR, Richard W., Pilot, Bennington Comp Sq, Vt  
 QUINN, James W., Jr., Pilot, Bennington Comp Sq, Vt  
 SACCO, Alfred A., Observer, Rutland Cadet Sq, Vt  
 SCHERBAUM, Walter H., Observer, Vermont Wing Vt  
 SENEAL, George G., Observer, Rutland Cadet Sq, Vt

### North Central Region

Appointments or Promotions:  
 ADLER, Carl C., 2/Lt, Ops O Sibley Sr Sq, Iowa  
 FELTON, John G., Capt, Exec O Council Bluffs Sr Sq, Iowa  
 FELTON, Joyce A., Capt, Exec O Council Bluffs Sr Sq, Iowa  
 HILSBECK, Robert L., 2/Lt, Sup O Sibley Sr Sq, Iowa  
 HOUGH, Howard C., Capt, Exec O Group 2, Iowa  
 JOHN, Allan E., Capt, Ops O Council Bluffs Sr Sq, Iowa  
 JOHNSON, Maynard E., 1/Lt, Exec O Council Bluffs Sr Sq, Iowa  
 KENNEDY, Kenneth H., Capt, Tng O Iowa Wing  
 KRUGER, Hildohr A., 1/Lt, Maint O Sibley Sr Sq, Iowa  
 MCNITT, Joseph W., 1/Lt, A/Comm O Iowa Wing, Iowa  
 NENGALE, Marvin D., 1/Lt, Av Ed O Council Bluffs Sr Sq, Iowa  
 RAISER, William J., 1/Lt, Comm O Council Bluffs Sr Sq, Iowa  
 REINOLD, Marvin D., 1/Lt, Tng O Sibley Sr Sq, Iowa  
 SAGE, Richard C., 1/Lt, Comdr Davenport Comp Sq, Kan  
 SEAGRAVES, Mary J., 2/Lt, Adj Council Bluffs Sr Sq, Iowa  
 SUTHER, Robert E., Capt, Comdr Gr Des Moines Sr Sq, Iowa  
 SWANSON, Charles C., 1/Lt, Comdr Lamoni Sr Sq, Iowa  
 TURNER, John N., 1/Lt, Dp/Pers Iowa Wing  
 WAHSON, Robert L., 1/Lt, A/Tng O Iowa Wing  
 WHITE, Chester D., 2/Lt, Ops O Webster City Sr Sq, Iowa  
 ANDERSON, Mary E., 1/Lt, C/Cdts Webster Group 5, Kan  
 ANDERSON, Orville R., Capt, Comm O Group 5, Kan  
 BEAVER, Eugene R., Capt, Tng O St. Johns Mt Cdt Sq, Kan  
 BLASING, Kenneth D., 2/Lt, Av Ed Manhattan Comp Sq, Kan  
 CANN, James A., 2/Lt, Exec O Eureka Comp Sq, Kan  
 COOPER, Bert E., Capt, Exec O Group 1, Kan  
 DODGE, Don D., 2/Lt, Exec O Manhattan Comp Sq, Kan  
 HARTENBOWER, Edward L., 2/Lt, C/CD Eureka Comp Sq, Kan  
 HARTENBOWER, Mollie A., 2/Lt, Adj Eureka Comp Sq, Kan  
 HAWKINS, Robert E., 2/Lt, C/Cdts Shawnee Comp Sq, Kan  
 HAYNES, Leon L., 2/Lt, Tng O Group 4, Kan  
 FRAZIER, Roy M., 2/Lt, Maint O Brookfield Comp Sq, Mo  
 HOSMAN, James H., 2/Lt, Ops O St. Charles Comp Sq, Mo  
 MUSICK, James L., 2/Lt, ISO Kansas City Comp Sq, Mo  
 PRYHUBER, Arnold E., 2/Lt, A/Ops O St. Charles Comp Sq, Mo  
 RANDALL, Donald M., 2/Lt, Adj St. Joseph Comp Sq, Mo  
 STUMBERG, Henry K., 1/Lt, Leg O St. Charles Comp Sq, Mo  
 TAYLOR, Donald L., 2/Lt, A/Comm O St. Charles Comp Sq, Mo  
 TRAVIS, Robert W., 2/Lt, Eng O St. Charles Comp Sq, Mo  
 WEBSTER, Greg, 2/Lt, Tng O St. Charles Comp Sq, Mo  
 YERGEN, Donald E., 2/Lt, Trans O St. Charles Comp Sq, Mo

ANDERSON, Glenn E., 1/Lt, Sup O Clearidge Comp Sq, Nebr  
 AVEY, Maynard C., Capt, C/Cdts Clearidge Comp Sq, Nebr  
 BOCHER, Kenneth C., 2/Lt, Av Ed Clearidge Comp Sq, Nebr  
 CARLSON, Robert E., 1/Lt, Comm O Fremont Comp Sq, Nebr  
 GORRIS, Walter A., 2/Lt, Sup O So. Omaha Comp Sq, Nebr  
 COWIN, John C., 2/Lt, Saf O Clearidge Comp Sq, Nebr  
 EDINGER, March A., 2/Lt, Tng O So. Omaha Comp Sq, Nebr  
 KARNIK, Allen F., Capt, Comdr Sidney Comp Sq, Nebr  
 KENNEDY, Elizabeth M., 2/Lt, ISO O'Fallon Comp Sq, Nebr  
 KINAMAN, Robert E., 2/Lt, Comm O Beatrice Comp Sq, Nebr  
 KNUTZEN, Vernon E., 1/Lt, A/Ops O Fremont Comp Sq, Nebr  
 MUNKRES, Janet L., 2/Lt, Exec O Weeping Water Sr, Nebr  
 RASCHKE, Mildred J., 1/Lt, A/Dp/Cdts Nebraska Wing  
 ROBOROUGH, Lorraine B., 1/Lt, Pers O Clearidge Comp Sq, Nebr  
 SCHADE, Richard N., 2/Lt, Trans O Clearidge Comp Sq, Nebr  
 STOKES, Ines D., 1/Lt, Adj Clearidge Comp Sq, Nebr  
 STOCKER, John H., Capt, Fis O Clearidge Comp Sq, Nebr  
 ULEMAN, Lucille, 2/Lt, A/C/Cdts Clearidge Comp Sq, Nebr  
 WREDE, Melba J., 2/Lt, Adj O'Neill Sr Sq, Nebr  
 BEIGEL, Richard D., 2/Lt, C/CD Devils Lake Comp Sq, N D  
 DIGERNESS, Elling B., 2/Lt, Trans O Devils Lake Comp Sq, N D  
 KELLER, Everett S., 1/Lt, Sup O Devils Lake Comp Sq, N D  
 LEE, Earl A., 1/Lt, Tng O Devils Lake Comp Sq, N D  
 PFELEGER, Jake P., 2/Lt, C/W Devils Lake Comp Sq, N D  
 CAL, Everett W., Capt, Comdr Rapid City Sr Sq, S D  
 CARSON, Clifford L., Capt, Sup O South Dakota Wing  
 DANEY, Paul W., 2/Lt, Tng O South Dakota Wing  
 HANSEN, Earl C., Capt, Comdr Sioux Falls Comp Sq, S D  
 JOHNSON, George O., Maj, Leg O South Dakota Wing  
 JONES, Lyle R., 2/Lt, C/Cdts Huron Comp Sq, S D  
 LUBBER, William J., 2/Lt, Exec O Gregory-Burke Comp Sq, S D  
 OLEN, Hemming O., 2/Lt, A/Dp/Cdts South Dakota Wing  
 SYMPSON, Lee M., 2/Lt, Ops O South Dakota Wing  
 HEIL, Robert D., 2/Lt, Av Ed O Group 4, Kan  
 HILL, John D., 2/Lt, ISO Eureka Comp Sq, Kan  
 HULVEY, Mary M., Capt, Adm O Group 5, Kan  
 IVES, Robert D., 2/Lt, Comm O Group 4, Kan  
 KETTERER, Harold E., 2/Lt, Comm O Oklahoma Comp Sq, Kan  
 LEBER, James M., Exec O Shawnee Man Comp Sq, Kan  
 PATY, Clifton R., 1/Lt, Comdr El Dorado Comp Sq, Kan  
 REED, Loma R., 1/Lt, A/Ops O Group 1, Kan  
 REID, Larry E., 2/Lt, Comm O Manhattan Comp Sq, Kan  
 SIMPSON, Richard L., 2/Lt, Comm O Wyandotte Comp Sq, Kan  
 SOUTHWELL, James C., 2/Lt, Exec O Oaklawn Comp Sq, Kan  
 STOCKMAN, William E., 2/Lt, A/Trans O Shawnee Man Comp Sq, Kan  
 SWIFT, George E., 2/Lt, Sup O Eureka Comp Sq, Kan  
 VEST, Ruth H., 1/Lt, Comm O Group 1, Kan  
 WEATHERBEE, Wilbur W., 2/Lt, Ops O Eureka Comp Sq, Kan  
 WEAVER, Walter L., 2/Lt, Ops O Shawnee Man Comp Sq, Kan  
 WILLIAMS, Benton O., Capt, Pers O Group 5, Kan  
 CHESBRO, John L., Maj, Comdr White Bear Comp Sq, Minn  
 DEBOIS, Darrel J., 2/Lt, Exec O Canby Comp Sq, Minn  
 EASBY, Charles J., 2/Lt, Tng O Stillwater Comp Sq, Minn



"Big Mike is certainly a fussy eater — he ought to have his own garbage can."

FENNER, Howard L., 2/Lt, Ops O Austin Comp Sq, Minn  
 GODDOUT, Medic C., 2/Lt, Sup O Stillwater Comp Sq, Minn  
 HENKICH, Ronald E., Capt, Eng O St. Paul Comp Sq, Minn  
 KUTH, John W., 2/Lt, Exec O Austin Comp Sq, Minn  
 LUNDBERG, Charles W., 1/Lt, Dp/Comm Minnesota Wing  
 MILLS, Paul O., 2/Lt, C/Cdts St. Paul Comp Sq, Minn  
 O'CONNOR, Edwin F., 2/Lt, Tng O Richfield Comp Sq, Minn  
 PATZNER, Roger J., 2/Lt, Sup O Richfield Comp Sq, Minn  
 QUILLING, Shirley R., 2/Lt, Fin O St. Louis Park Comp Sq, Minn  
 SAMPSON, Robert N., 1/Lt, Comdr Tracy Comp Sq, Minn  
 SORENSON, Carroll W., 2/Lt, Ops O Albert Lea Comp Sq, Minn  
 STANICH, Eugene J., Capt, Comdr Crow Wing Comp Sq, Minn  
 TOZE, Rolf G., 2/Lt, Ops O Minn Univ Comp Sq, Minn  
 YOUNG, Evan H., 2/Lt, Adj C/Cdts Austin Comp Sq, Minn  
 BROWN, Paul O., 1/Lt, Adj Independence Comp Sq, Mo  
 CROSS, Marguerite M., 2/Lt, Adj St. Charles Comp Sq, Mo  
 FERRELL, William F., 2/Lt, Pers O Sikeston Comp Sq, Mo  
 FINCK, Fred E., 2/Lt, Fis O St. Charles Comp Sq, Mo  
 ERICKSON, Glenn T., Capt, A/Av Ed O North Central Region  
 BELL, William C., 2/Lt, Exec O Davenport Comp Sq, Iowa  
 PATZNER, Harvey H., Lt Col, Leg O Iowa Wing  
 CHRISTENSEN, Wilford L., Maj, Comdr Clarion Comp Sq, Iowa  
 FLANAGAN, Raymond V., 2/Lt, Adj Davenport Comp Sq, Iowa  
 GUMPERT, John D., 2/Lt, Sup O Davenport Comp Sq, Iowa  
 HARTUNG, John H., 2/Lt, Leg O Gr Des Moines Sr Sq, Iowa  
 RUPER, Harold E., 1/Lt, Exec O Belmont Sr Sq, Iowa  
 SCHROEDER, Delman E., 2/Lt, Av Ed O Davenport Comp Sq, Iowa  
 SMITH, Claude E., 2/Lt, C/CD Davenport Comp Sq, Iowa  
 WATHIAN, Leander M., 2/Lt, Ops O Davenport Comp Sq, Iowa  
 BISHOP, Mary L., 1/Lt, Adj Alwood Flight, Kan  
 WILCOX, Charles P., 1/Lt, Adj Wyandotte Comp Sq, Kan  
 HUDNALL, Hugh J., Maj, Insp Southern Group, Minn

(See ORDERS, Next Page)

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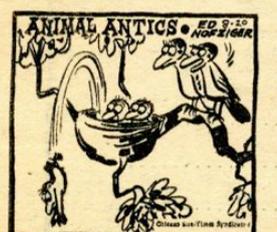
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"He won't listen to anyone — guess he'll have to learn the hard way!"



"Oh, fine — the cat's afraid of mice too!"

# CAP OFFICERS

(Continued from Preceding Page)

**ANUS, Kasper K., 1/Lt, Av Ed O** Richfield Comp Sq, Minn  
**BIRKHEAD, Wayne L., 2/Lt, Comm O** West Plains Comp Sq, Mo  
**BRANN, Edward C., Maj, Dp/Plans** Kansas Wing  
**BRODE, William L., 2/Lt, Ops O** West Plains Comp Sq, Mo  
**ELMORE, Gerald E., 1/Lt, Exec O** West Plains Comp Sq, Mo  
**EZELL, Richard D., Maj, A/Tng O** Missouri Wing  
**GOODWIN, John J., 2/Lt, Av Ed O** West Plains Comp Sq, Mo  
**GRIMM, Blanche M., 1/Lt, A/Sup O** Missouri Wing  
**HARD, Albert E., 2/Lt, Exec O** West Plains Comp Sq, Mo  
**HARRIS, Ted E., 2/Lt, C/Cds** West Plains Comp Sq, Mo  
**HOPPE, Ronald A., 2/Lt, C/Cds** Sedalia Comp Sq, Mo  
**JOHNSON, Jean, 2/Lt, C/D** West Plains Comp Sq, Mo  
**JOHNSTON, Clark, Capt, Comdr** St Joseph Comp Sq, Mo  
**JOLLIFF, Carl W., 2/Lt, Trans O** West Plains Comp Sq, Mo  
**KEENEY, Edward E., 2/Lt, Fin O** West Plains Comp Sq, Mo  
**KIRST, Walter H., 2/Lt, Rad O** West Plains Comp Sq, Mo  
**MOODY, Harry E., Capt, Adv Lambert** Field Comp Sq, Mo  
**MURPHY, Daniel T., Lt Col, Chapl** Missouri Wing  
**NEWMAN, Melvin C., 1/Lt, Pilot** West Plains Comp Sq, Mo  
**FENDHILL, Landon W., 1/Lt, Exec O** St Charles Comp Sq, Mo  
**ECOTT, William C., 1/Lt, Leg O** West Plains Comp Sq, Mo  
**WARDEN, Thomas C., 2/Lt, Eng O** Owensville Comp Sq, Mo  
**WEBB, Glen J., 2/Lt, Maint O** Bismark Flight, Mo  
**WOOD, Robert E., 2/Lt, Sup O** West Plains Comp Sq, Mo  
**ENERSON, Ernest A., Capt, Maint O** Devils Lake Comp Sq, N. D.  
**MILLER, Delbert J., Capt, Exec O** Devils Lake Comp Sq, N. D.  
**Aeronautical Ratings:**  
**CARMICHAEL, Harry D., Pilot,** Wichita Comp Sq, Kan  
**DURRETT, John C., Observer,** Shawnee Mission Comp Sq, Kan  
**EHRLICH, Judith L., Observer,** Shawnee Mission Comp Sq, Kan  
**FENWICK, John, Pilot,** Shawnee Mission Comp Sq, Kan  
**GAFFEY, Dewey W., Pilot,** Marshall County Sr Sq, Kan  
**HAAS, William E., Pilot,** Shawnee Mission Comp Sq, Kan  
**JOHNSON, Neis C., Pilot,** Marshall County Sr Sq, Kan  
**JONES, H. Lyle, Pilot,** Marshall County Sr Sq, Kan  
**KNEPPER, Harold E., Pilot,** Oklawaha Comp Sq, Kan  
**KOS, Everett A., Pilot,** Marshall County Sr Sq, Kan  
**LOVE, Marilyn, Observer,** Kansas Wing  
**MILLS, Benjamin G., Pilot,** Shawnee Mission Comp Sq, Kan  
**RANDELL, John W., Pilot,** Marshall County Sr Sq, Kan  
**ROEPKE, Roland R., Pilot,** Marshall County Sr Sq, Kan  
**CHUESSLER, Gilbert W., Pilot,** Marshall County Sr Sq, Kan  
**SWIM, James L., Pilot,** Marshall County Sr Sq, Kan  
**WEAVER, Walter L., Pilot,** Shawnee Mission Comp Sq, Kan  
**WOOD, Claude A., Comd Pilot,** Kansas Wing  
**EICHENBERG, Morton P., Pilot,** Minneapolis University Comp Sq, Minn  
**CAVILLOR, John A., Sr Observer,** Minneapolis Wing  
**HOMMES, Charles A., Observer,** No. Hennepin County Comp Sq, Minn  
**KULENKAMP, Darrel P., Observer,** Anoka Comp Sq, Minn  
**REINECKE, Kris C., Observer,** Anoka Comp Sq, Minn  
**SCHAEFER, Stanley C., Pilot,** Minn University Comp Sq, Minn  
**FISNEY, Floyd B., Pilot,** Sikeston Comp Sq, Mo  
**FULTON, Donald N., Sr Pilot,** Missouri Wing  
**GIBSON, Robert L., Pilot,** Bismark Sr Sq, Mo  
**KENNEDY, Ross J., Pilot,** Brookfield Comp Sq, Mo  
**MARTIN, Gerald L., Sr Pilot,** St Clair Sr Sq, Mo  
**MINSON, Elmer Jr., Pilot,** Bismark Comp Sq, Mo  
**RABY, Thelma J., Pilot,** Bismark Comp Sq, Mo  
**WARDEN, Thomas C., Pilot,** Owensville Comp Sq, Mo  
**EVITT, Russell D., Pilot,** Williston Comp Sq, N. D.  
**BULLIE, Harold H., Observer,** Sioux Falls Cdt Sq, S. D.  
**CARSON, Clifford L., Observer,** South Dakota Wing  
**ODD, Joseph, Pilot,** Hot Springs Comp Sq, S. D.  
**JEFFRIES, Vernon R., Pilot,** Hot Springs Comp Sq, S. D.  
**LAMMERS, Paul L., Pilot,** South Dakota Wing  
**MILNER, Frank E., Pilot,** Fox Ridge Comp Sq, S. D.  
**MILTON, Clarence L., Sr Pilot,** South Dakota Wing  
**RUBIN, Michael B., Observer,** Sioux Falls Cdt Sq, S. D.  
**WINTER, James, Pilot,** Huron Comp Sq, S. D.

**YUSKO, John, Pilot,** Fox Ridge Comp Sq, S. D.  
**Appointed Chaplains:**  
**ANDERSON, Paul F., 1/Lt,** South Dakota Wing  
**SPOTTS, Alfred L., 1/Lt,** Sterling Comp Sq, Kan  
**FINLAY, Paul R., 1/Lt,** Capitol Sr Sq, Minn  
**HARDIN, Newton R., N. Capt,** Offutt Comp Sq, Nebr

## Southeast Region

**Appointments or Promotions:**  
**ALTMAN, Oscar, 2/Lt, Eng O** Dothan, Comp Sq, Ala  
**ANDERSON, Millard O., 1/Lt, Trans O** Botham Comp Sq, Ala  
**BOTTONS, David H., 2/Lt, C/Cds** Geneva Comp Sq, Ala  
**CAMADELLO, Alfred Jr., 1/Lt, Comm O** Muscle Shoals Comp Sq, Ala  
**COSEGLIA, Florence G., 2/Lt, A/ISO** Muscle Shoals Comp Sq, Ala  
**COSEGLIA, Frank W., 1/Lt, Pers O** Muscle Shoals Comp Sq, Ala  
**FULLOY, Charlotte I., 2/Lt, ISO** Homecoming Comp Sq, Ala  
**GOGGINS, Billy E., 2/Lt, A/Trans O** Muscle Shoals Comp Sq, Ala  
**HERSCHMAN, Alvin L., 2/Lt, Sup O** Homecoming Comp Sq, Ala  
**LOWREY, Jim D., 2/Lt, ISO** Anniston Comp Sq, Ala  
**MARTIN, Harold L., Capt, Chapl** Homecoming Comp Sq, Ala  
**MITCHELL, Robert M., 1/Lt, Comm** Homecoming Comp Sq, Ala  
**MUSE, Fiocella, 2/Lt, Exec O** Muscle Shoals Comp Sq, Ala  
**NEWBARD, Richard R., Maj, A/D** Adm Alabama Wing  
**PATTERSON, Jessie B., 2/Lt, C/W** Muscle Shoals Comp Sq, Ala  
**STANFORD, Howard O., 2/Lt, A/Maint O** Muscle Shoals Comp Sq, Ala  
**STEWART, Charles W., 1/Lt, Ops O** Muscle Shoals Comp Sq, Ala  
**WHISNANT, William C., 1/Lt, A/Com O** Geneva Comp Sq, Ala  
**BAILEY, Marilyn E., 2/Lt, C/W** Tallahassee Comp Sq, Fla  
**BATTEN, John E., 2/Lt, Adv Central** Florida Comp Sq, Fla  
**BURKS, Warren A., Capt, Eng O** Daytona Beach Comp Sq, Fla  
**BOUDREAUX, Robert N., Maj, Comd** Choctawhatchee Sr Sq, Fla  
**BOWRON, Keith P., 2/Lt, Adj** Lake Comp Sq, Fla  
**BOYNTON, Bruce, 1/Lt, Med O** Naples Comp Sq, Fla  
**BOYNTON, Leon A., 2/Lt, C-CD** Central Florida Comp Sq, Fla  
**BRAND, Glotis A., 1/Lt, Comdr** Navarre Comp Sq, Fla  
**BRITTON, William L., Maj, D/Comm** Florida Wing  
**CAIRD, Maureen O., 2/Lt, Pers O** Daytona Beach Comp Sq, Fla  
**CHAFFIN, William L., 2/Lt, A/C/Cds** Ft. Hollywood Comp Sq, Fla  
**CLARK, William J., 1/Lt, A/D** Cqpm Florida Wing  
**CREEL, James N., 1/Lt, Comdr** Pensacola Comp Sq, Fla  
**CROSS, Albert S., Capt, Exec O** Group 6, Fla  
**CHIDCO, Rosa C., 2/Lt, A/ISO** Stuart Comp Sq, Fla  
**DACOSTA, Arthur V., 1/Lt, Sup O** Ft. Hollywood Comp Sq, Fla  
**DAVIS, William J., 1/Lt, Insp O** W. Fla Group 4, Fla  
**DODSON, Benjamin F., 1/Lt, Ops O** Ft. Lauderdale Comp Sq, Fla  
**DRAGO, Ota, 2/Lt, A/Eng O** Tallahassee Comp Sq, Fla  
**ENGEBRETTSEN, Carl E., 2/Lt, Sup O** Stuart Comp Sq, Fla  
**FARALDO, Charles A., Maj, Comdr** Daytona Beach Comp Sq, Fla  
**FRAK, Warren J., 1/Lt, C/CD** Florida Wing  
**FAULK, Merrill C., Capt, A/D** Comm Florida Wing  
**GAL, David W., 2/Lt, C/Cds** Stuart Comp Sq, Fla  
**GUSTAFSON, Nancy J., 1/Lt, Adj W.** Hollywood Comp Sq, Fla  
**GUTHRIE, James L., 2/Lt, Eng O** Tallahassee Comp Sq, Fla  
**HARTLEY, Doris I., 2/Lt, C/W** Deland Comp Sq, Fla  
**HARVEY, Norman E., 2/Lt, C/Cds** Latona Lake Worth Sq, Fla  
**HORN, Mallery E., Capt, Leg O** Tallahassee Comp Sq, Fla  
**JONES, Frank M., 2/Lt, Adj** Group 4, Florida Wing  
**KEIM, Thomas J., 2/Lt, Fin O** Punta Gorda Sr Sq, Fla  
**KIPER, Fred B., 2/Lt, Trans O** Tallahassee Comp Sq, Fla  
**KREWSON, George C., Capt, Comdr** New Smyrna Beach Comp Sq, Fla  
**LAWRENCE, James A., 1/Lt, Exec O** Latona Lake Worth Sq, Fla  
**MCCORMICK, Richard V., 2/Lt, Trans O** Stuart Comp Sq, Fla  
**MCDONALD, Bonnie B., 2/Lt, Pers O** Tallahassee Comp Sq, Fla  
**MCDONALD, John C., Capt, A/D** Ops Florida Wing  
**McGOWEN, Donald R., 2/Lt, Maint O** Tampa Comp Sq, Fla  
**MITCHELL, Fred L., 2/Lt, Maint O** Tallahassee Comp Sq, Fla  
**MOHR, Charles, 2/Lt, ISO** Tallahassee Comp Sq, Fla  
**OLIVERI, Joseph, 1/Lt, Comd** Hallendale Comp Sq, Fla  
**PEARSON, Edith C., 1/Lt, C/W** Latona Lake Worth Sq, Fla  
**PORTER, Louis S., 2/Lt, C/Cds** Daytona Beach Comp Sq, Fla

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**RIVENBARK, Patricia A., 2/Lt, ISO** Deland Comp Sq, Fla  
**SANDERSON, James W., 1/Lt, C/Cds** W. Fla Hollywood Comp Sq, Fla  
**SCHMIDT, Walter A., 2/Lt, Tng O** Punta Gorda Comp Sq, Fla  
**SHAVER, Reginald M., 2/Lt, Eng O** Central Fla Comp Sq, Fla  
**SNEDEN, Thomas C., 2/Lt, Trans O** W. Fla Hollywood Comp Sq, Fla  
**SPENCER, Edward E., 1/Lt, Tng O** W. Fla Hollywood Comp Sq, Fla  
**STINSON, Theodore P., 2/Lt, Pers O** Lake Comp Sq, Fla  
**WILSON, Paul E., Capt, Med O** Ocala Sr Sq, Fla  
**WYATT, William C., 1/Lt, D/CD** Florida Wing  
**YORK, John O., 1/Lt, Comdr** Crestview Sr Sq, Fla  
**ZOLLER, Theodore E., 2/Lt, Saf O** Daytona Beach Comp Sq, Fla  
**BARKSDALE, Robert R., 1/Lt, Comdr** Columbus Sr Sq, Ga  
**BAXTER, Addis T., 2/Lt, Comm O** Augusta Sr Sq, Ga  
**BEACHUM, Davis H., 2/Lt, Fis O** Statesboro Sr Sq, Ga  
**BROOKS, Jable A., 2/Lt, Adj** Augusta Sr Sq, Ga  
**DAVIS, Walter H., 2/Lt, Sup O** Lockheed Sr Sq, Ga  
**DUFFER, Henry G., 2/Lt, A/Comm O** Atlanta Comp Sq, 2 Ga  
**FOWLER, Marian E., 2/Lt, Pers O** Lockheed Sr Sq, Ga  
**GRANBERRY, William C., 2/Lt, Comm O** Lockheed Sr Sq, Ga  
**GRIFFITH, Curtis W., 1/Lt, Comdr** Druid Hills Comp Sq, 2 Ga  
**HARDY, Mary A., 1/Lt, Pers O** Georgia Wing, Ga  
**HARDY, Olin P., 1/Lt, A-Comm O** Georgia Wing, Ga  
**HOWARD, Freddie L., 2/Lt, Fin O** Lockheed Sr Sq, Ga  
**KRACK, William R., 2/Lt, Maint O** Augusta Sr Sq, Ga  
**PATTELLO, Charles E., Maj, D/Sup** Georgia Wing  
**PELTON, Seymour M., 2/Lt, Comm O** Fitzgerald Sq, Ga  
**STUART, Jack W., 2/Lt, Maint O** Fitzgerald Sq, Ga  
**VILLEPIGUE, Harry Y., 2/Lt, Ops O** Augusta Sr Sq, Ga  
**WATFORD, Cal H., Capt, A/Pers O** Georgia Wing  
**BURGESTRO, Pleter, Capt, Comdr** Jackson Comp Sq, Miss  
**BURKS, Warren A., 2/Lt, Spec Evnts** Jackson Comp Sq, Miss  
**HAND, Jackie M., 1/Lt, ISO** Mississippi Wing, Miss  
**BEYANCOBT, Lilyana M., 2/Lt, A/D** Pers Puerto Rico Wing  
**HANSEN, Herman C., P. Maj, Exec O** City Comp Sq, Tenn  
**SCHWABE, Paul A., Capt, Fis O** Puerrio Rico Wing  
**BIVENS, Doris M., 2/Lt, Adj** Blount City Wing, Tenn  
**BRUMLEY, Betty D., 2/Lt, ISO** Roane City Flt, Tenn  
**CAIRY, Frank L., Maj, Ins O** Tennessee Wing, Tenn  
**COOPER, Louis A., Maj, C/CD** Group 1, Tenn  
**GRABAM, Douglas C., Maj, D-Cds** Group 3, Tenn  
**GRAY, Robert D., Capt, Trans O** Tennessee Wing  
**GRAY, Ruth T., 1/Lt, Trans O** Tennessee Wing  
**HADDOCK, Bursley Jr., 2/Lt, Trans O** Union City Comp Sq, Tenn  
**HOWELL, Irvine S., Capt, Comdr** Maury City Comp Sq, Tenn  
**JOHNSON, Harold B., Maj, D/Cds** Group 4, Tenn  
**KINCAID, Betty M., 2/Lt, A/D** Comm Roane City Flt, Tenn  
**MCNELL, Har M., 2/Lt, Ops O** Oak Ridge Comp Sq, Tenn  
**MOORE, Ermal, 2/Lt, Tng O** Morristown Comp Sq, Tenn  
**MYER, Ruby E., 2/Lt, Tng O** Dyer City Comp Sq, Tenn  
**OVERALL, George D., 2/Lt, Ops O** Union City Comp Sq, Tenn  
**PEOPLES, James R., Capt, Fin O** Johnson City Comp Sq, Tenn  
**RUTH, June G., 2/Lt, Exec O** Morristown Comp Sq, Tenn  
**SHANKS, William G., 1/Lt, Sup O** Johnson City Comp Sq, Tenn  
**SILVER, Melvin E., 2/Lt, Sup O** Union City Comp Sq, Tenn  
**STAPLETON, Juanita B., Capt, Pers O** Group 4, Tenn  
**TAYLOR, Kenneth A., 2/Lt, Av Ed O** Roane City Flt, Tenn  
**WAXLER, Hal, Capt, Comm O** Johnson City Comp Sq, Tenn  
**Appointed Chaplains:**  
**HERNDON, William C., 1/Lt,** Tallahassee Comp Sq, Fla  
**BRADD, Garrie A., 1/Lt,** Fitzgerald Sq, Fla

**OCTOBER, 1959**  
**GREENLEAF, Nelson S., 1/Lt, Shelby** City Comp Sq, Tenn  
**Aeronautical ratings:**  
**ANDERSON, Millard O., Pilot,** Dothan Comp Sq, Ala  
**BORGFELDT, Richard N., Pilot,** Alabama Wing  
**BOWMAN, Richard G., Observer,** Homecoming Comp Sq, Ala  
**DANIEL, Glen M., Observer,** Birmingham Comp Sq, Ala  
**HARMONDS, Owen C., Pilot,** Mobile Comp Sq, Ala  
**HAYES, Thomas J., Pilot,** Dothan Comp Sq, Ala  
**IRVING, James C., Pilot,** Mobile Comp Sq, Ala  
**ROSS, James W., Pilot,** Homecoming Comp Sq, Ala  
**TAIT, Dean T., Pilot,** Selma Comp Sq, Ala  
**WITSON, John H., Observer,** Birmingham Comp Sq, Ala  
**WOOD, James B., Pilot,** Geneva Comp Sq, Ala  
**BERO, John E., Pilot,** N. Dade Comp Sq, Fla  
**BRAUSE, Russell E., Pilot,** N. Dade Comp Sq, Fla  
**DAVIS, Fred G., Pilot,** New Smyrna Beach Comp Sq, Fla  
**FISHER, Norman Jr., Pilot,** Miami All Girl Comp Sq, Fla  
**KEIM, Thomas J., Pilot,** Punta Gorda Comp Sq, Fla  
**MITCHELL, Robert E., Pilot,** Naples Comp Sq, Fla  
**BLACKBURN, James R., Pilot,** Atlanta Comp Sq, 2 Ga  
**GABLE, Benjamin C., Sr Pilot,** Albany Comp Sq, Ga  
**GABLE, Dorothy D., Observer,** Albany Comp Sq, Ga

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# Products and Projects

**WEATHERWISE.** Flight tests of the first flying weather laboratory designed to gather and analyze global weather data for improved forecasting have been completed, it was announced by the Bendix Aviation Corp. and the Boeing Co.

The weather project, named the AN/AMQ-15 Air Weather Reconnaissance System, is described as the most significant advance in meteorology since weather stations were first linked by the telegraph.

During the flight test program, the weather apparatus collected and processed such data as pressure, temperature, dew point, icing rate, wind speed and direction, measurement of solar and terrestrial radiation, atmospheric electricity and nuclear radiation.

The flying weather laboratory apparatus was installed and test flown in a four-jet Boeing 707 prototype aircraft. Filled with electronic sensing and computing devices, the plane flew some 7000 miles at altitudes of up to 45,000 feet and close to the speed of sound.

In its production version, the apparatus would radio information continuously to ground communication networks.

**FUEL.** The Liquidometer Corp. of New York has been asked to develop and supply fuel management systems for B-70 inter-continental bomber and the F-108 long range interceptor.

The systems will provide pilots with complete information on fuel quantities, accuracy of sequencing between fuel tanks, sump fuel quantities and other pertinent information.

**A HIGHLY** intricate communications system, which is designed to bounce a signal off the troposphere at an altitude of 55,000 feet, has been opened over the 450-mile Eglin AFB Gulf of Mexico test range.

The range station on Cudjoe Key 12 miles northwest of Key West, is used to test Bomarc and other guided missiles, escape capsules and other recovery devices.

**NEW AIRCRAFT** coatings, which substantially reduces the hazards of flying through smoke and haze, are being manufactured by the Randolph Products Co., Carlstadt, N.J.

Development of the vivid high visibility finishes is part of a sustained research program to help the aviation industry cope with safety problems.

**A FULL SCALE** drive to narrow the tolerance and improve measurements in U.S. space projects is being pushed by Aerospace Industries Association.

Calling for major improvements in measurement standards, AIA used a dramatic example of tolerance errors in space work. An error of one millionth of an inch in the bore-hole of a gyro could cause an error of .03 degrees per hour in a moon missile and a complete miss. A millionth of an inch is the fraction represented by one quarter in a stack of quarters three times the height of the Empire State Building.

AIA said the measurements study,

## Pilots Are Ageless

**WASHINGTON.** — Many persons who were born before the Wright brothers flew their first airplane are now aviation enthusiasts, records in the Federal Aviation Agency reveal.

A recent survey showed that there are now more than 350 active certified pilots in the U.S. who are 70 years of age or over.

run by Sperry Gyroscope for the space group, AF and the National Bureau of Standards, is already being acted upon.

**WING TIPS** of the triplexonic B-70 bomber will fold down in flight for maneuverability and stability at high speeds. Boeing will make the delta wings and Curtiss-Wright the mechanisms for folding the tips. Other new subcontractors named by North American, prime builder for the '70, include Motorola Military Electronics Division. It will make the mission and traffic control system which will make it able to be directed to a target anywhere in the world and be recalled any time by radio.

A third subcontract gives Liquidometer Corp. of New York orders for fuel management systems on both the B-70 and the Mach 3 F-108. The system will give the pilot's display panel complete information on fuel quantities, sequencing between tanks, etc.

**GOODYEAR** is pushing sidewall-inflated tubeless aircraft tires. They fill like footballs, via needle.

**FOR THE RECORD . . .** Boeing claims it dropped seven flight records in five days for a Pan American 707. Among them, the Tokyo to Seattle run in nine hours five minutes (non-jet time is 18 hours) . . . the 320th Field Maintenance Sq. ran up a local record with a two hour, 15 minute engine change on a B-47. Credits went to the engine conditioning team, SSGts. Lawrence Beard and Stephen Cruz and A/IC Albert Finch.

**JOHNSON'S Wax Co.** has bought a reconstructed Super '92 DC3 for executive use. Remmert-Werner fitted it.

**A ROYAL** Netherlands AF pilot, came the first allied flier to handle Capt. A. J. Borgstein recently be-

lieve the N-156F Freedom Fighter. A cousin of Northrop's T-38 trainer, it is under test at Edwards AFB, Calif.

**LOCKHEED** Aircraft Service will convert three Super G. Constellations from passenger to convertible all-cargo/passenger configuration for Air-India.

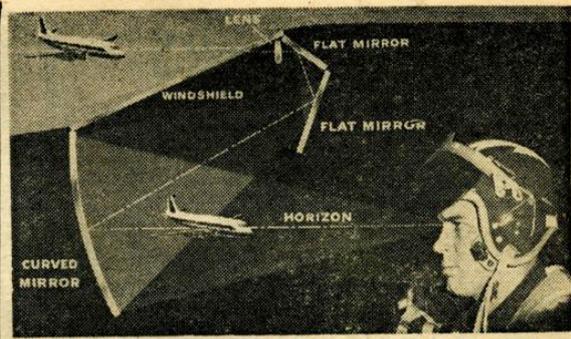
**A MOBILE** electronic brain is being used to check out the computers on the B-58. Made by Bendix, it wheels out to the line, hooks up and in 90 minutes makes some 750 tests of the ship's thinking system.

**THE ARMY** has a "Flying Duck" version of the War II floating truck. This one uses a hydro-foil (underwater wings) to rise completely out of water and skim along above the surface. It takes 200 feet of taxi run to get the 13-ton boat-truck out of water. Avco Corp. makes it.

**UNITED Airlines** has asked CAB for authority to operate nonstop from Chicago to Honolulu with DC-8s.

**BABIES ABOARD** United Airlines DC-8s and 707s will get special light-weight bassinets to fly in. As many as eight Dandux Bassinets per plane are on order. They are of tubular aluminum and nylon, weight five pounds. They are approved for infants up to 30 pounds but can hold up to 200 pounds gross weight if the little fellow is particularly chubby.

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... a view of the world "outside" is provided pilots by periscope.

## New Optical Aid for Pilots

**PITTSBURGH, Penna.** — A new optical system, aimed at letting pilots see out of high speed planes and space ships without the danger of breaking windshields, has been developed for the Air Force.

Designed by J. W. Fecker, Inc., of Pittsburgh, the system is similar in some ways to conventional periscopes. A new feature is a rapid closure system which can shield the pilot's vision in a split second to protect him from high intensity light flashes like those from a nuclear explosion.

The device is based on a forward viewing periscope developed by the firm's parent company, American Optical Co. The image from outside the aircraft passes

through a lens, hits two flat mirrors and a curved mirror and is passed to the pilot's eye. In the process, the required windshield area can be cut to a fraction of normal size to reduce heating and shock problems.

Periscopes are not new to aircraft (Lindberg used one in the "Spirit of St. Louis"). But previous systems had to be several feet long to give pilots an accurate picture of the outside world and were too heavy for military aircraft. The new one is both smaller and lighter. It allows pilots a clear view above, below and to the left and right of his plane.

A prototype will be built shortly for extensive testing on a jet.

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