



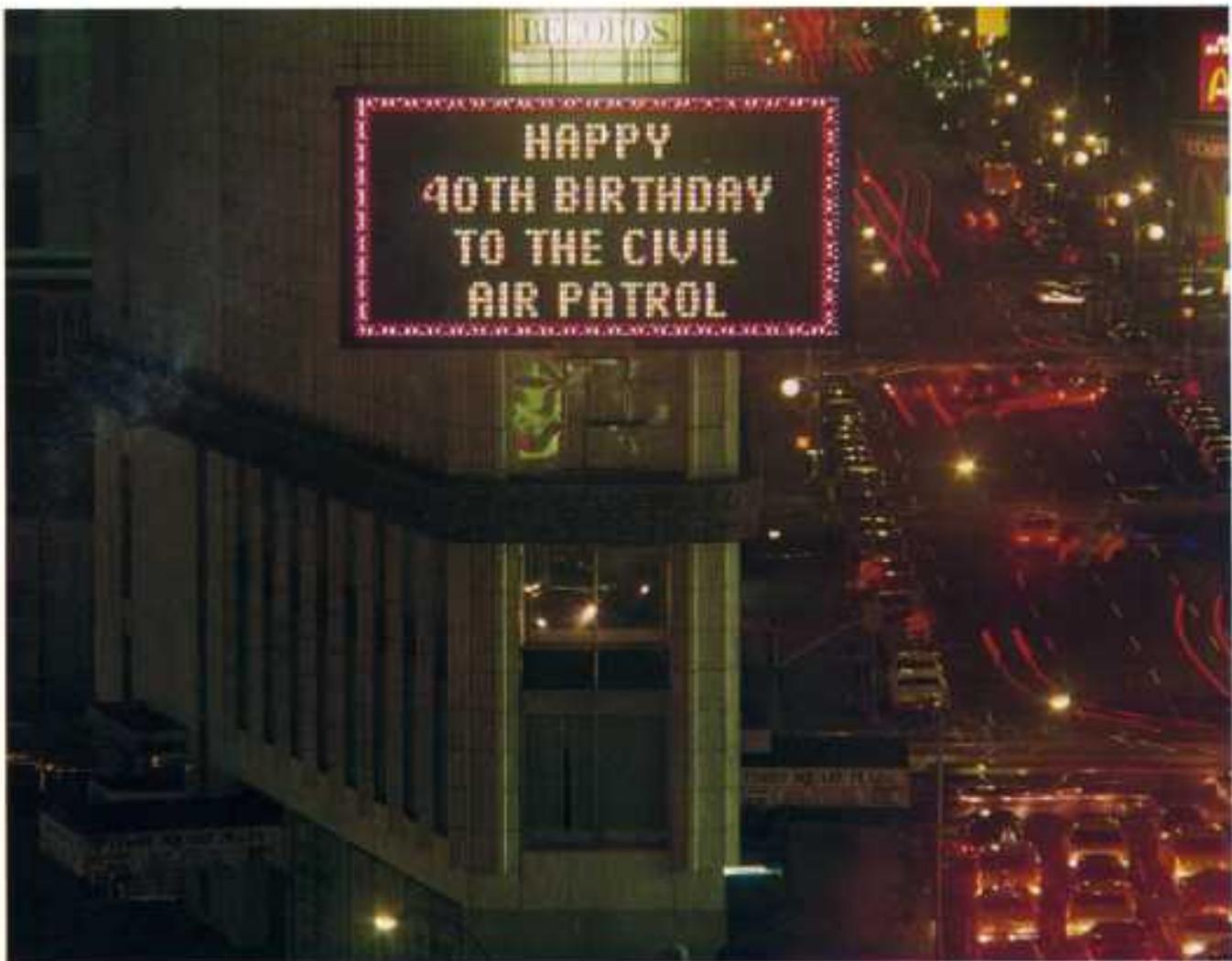
# CIVIL AIR PATROL

ANNUAL REPORT TO CONGRESS

# 1982



FOR YEAR ENDING 31 DECEMBER 1981



Civil Air Patrol was established by executive order of the Director of Civilian Defense on 1 December 1941. The 40th anniversary of the creation of Civil Air Patrol was celebrated during the first week of December 1981. Millions of people were made aware of this Civil Air Patrol milestone through the electronic message sign in Times Square in New York City.

**COVER PAGE:** From left: Senator Jennings Randolph of West Virginia; Mr. George P.A. Forschler, Deputy Assistant Secretary of the Air Force for Reserve Affairs; and Senator Harrison Schmitt of New Mexico.

Senators Randolph and Schmitt met with Mr. Forschler on the occasion of the 40th Anniversary of the founding of Civil Air Patrol on 1 December 1941. Senator Schmitt is holding a copy of the 1981 CAP Annual Report to Congress which emphasized the CAP Emergency Services mission. The CAP Cadet Program is highlighted in this year's report.

Mr. Forschler monitors all Civil Air Patrol programs. His interest in and expertise on matters involving Civil Air Patrol result from long standing membership in CAP and his 1966-1970 service as the CAP Idaho Wing Commander and member of the CAP National Board.

Senator Schmitt, a former astronaut and member of the Apollo 17 crew on the last manned flight to the moon in 1972, and Senator Randolph are sponsors of legislation to increase the benefits to CAP members or the families of CAP members who are injured or killed while participating in U.S. Air Force authorized missions.

Senator Randolph was a sponsor of the legislation that chartered CAP as a nonprofit volunteer corporation in 1946 and granted it status as the civilian auxiliary of the Air Force in 1948.



**NATIONAL  
HEADQUARTERS  
CIVIL AIR PATROL**  
— USAF AUXILIARY —  
Maxwell Air Force Base, Alabama 36112

**TO THE CONGRESS OF THE UNITED STATES**

This is a report of the activities of Civil Air Patrol in its 40th year of service to the nation. Civil Air Patrol was created on 1 December 1941 by executive order of the Director of Civilian Defense to make civil aviation pilots and aircraft available to the national defense effort. Civil Air Patrol functioned under the Office of Civilian Defense until April 1943, at which time the Army Air Corps was assigned jurisdiction over its operations for the remainder of the war years.

In recognition of its wartime service, Civil Air Patrol was chartered by the 79th Congress on 1 July 1946 as a volunteer, non-profit corporation. And on 26 May 1948 the 80th Congress granted it status as the civilian auxiliary of the Air Force through Public Law 557.

During the past year, Civil Air Patrol continued to build upon its long record of achievement and service with solid performance in each of its mission areas. Included in this report are details of significant accomplishments in emergency services assistance to people in distress, developments in aerospace education, and leadership development programs for both cadet and senior members.

We are thankful for the capable and dedicated CAP volunteers and are proud of CAP's overall performance achieved in 1981 through their efforts. We are grateful for the continued understanding and support of Congress and for the advisory and material support provided by the United States Air Force; both of which have been fundamental to CAP's success.

It is a privilege to present this report of Civil Air Patrol activities during calendar year 1981 as required by Public Law 476.

*Johnnie Boyd*

JOHNNIE BOYD  
Brigadier General, CAP  
National Commander

*David L. Patton*

DAVID L. PATTON  
Brigadier General, USAF  
Executive Director

## THE CADET PROGRAM

One of the three missions of Civil Air Patrol is to provide "a cadet program to develop and motivate the youth of the country to leadership and responsible citizenship, through an interest in aviation." The program is open to U.S. citizens and persons lawfully admitted for permanent residence to the United States and its territories and possessions who are 13 years of age, or have completed the sixth grade, through 18 years of age. Upon reaching age 18, cadets may choose to either continue in the cadet program until their 21st birthday or become senior members.

The cadet program provides cadets with opportunities to develop their leadership skills in an aerospace oriented environment. Under the guidance of adult CAP leaders and with the advice and assistance of U.S. Air Force liaison personnel, cadets are permitted to progress at their own pace through a structured program of aerospace education, leadership training, physical fitness and moral leadership. Learning is through a combination of study and performance and involves both individual and group effort. Cadets work their way through 15 achievements interspersed with orientation flights, encampments and a variety of other special activities. Additional incentives and benefits include: increases in cadet rank, presentation of ribbons and certificates, eligibility to compete for academic scholarships and grants, and eligibility to apply for nationally and internationally sponsored special activities.

## INTERNATIONAL AIR CADET EXCHANGE (IACE)

The purpose of the IACE program is to foster international understanding, goodwill, and friendship among young people who share a common interest in aviation. The program, conceived by the Air Cadet League of Canada and the Air Training Command of Great Britain, was first conducted in 1947 between Canada and Great Britain. Civil Air Patrol, with the assistance of the U.S. Air Force, entered the exchange in 1948. The program has continued and grown over the years with as many as 41 countries participating at one time or another.

The annual 19-day exchange of cadets is conducted by Civil Air Patrol and national aero clubs and national Air Force academies. Participating organizations provide visiting cadets with sight-seeing trips, tours of aerospace industries and museums, visits to airports and Air Force installations, orientation and training flights in gliders and powered aircraft, and visits in host families' homes.

During the past year, 138 CAP cadets and 22 senior escorts were exchanged with Canada and 12 other IACE association member nations in Europe and the Middle East and three countries in the Pacific area. Annual exchanges with the Pacific area countries are arranged and conducted bilaterally by Civil Air Patrol under similar rules and format in conjunction with the regular IACE program.



**Cadet Competition.** Cadet Amy Greczyn, leader of the Pacific Region team from California, reports to an Air Force senior NCO who served as a judge in the drill phase of the National Cadet Competition. The Pacific Region team took top honors along with the Sweepstake Trophy and Amy was selected as outstanding cadet in the competition. Some 160 cadets from all sections of the United States participated in the two-day event held at Maxwell Air Force Base, Alabama during the last week in December. The teams, representing CAP's eight regions, were chosen in earlier rounds of regional competitions. The activity consisted of a series of drill competitions, physical fitness tests, and oral and written examinations on aerospace subjects. (Photo by Ken Kennedy)



Cadet Dee Atwood sits in cockpit of a T-38 Jet Trainer.



Cadet James Durham is briefed on the instruments in a T-38 aircraft by Air Force A/TC Stanley Carroll.

### CADET ENCAMPMENT AT COLUMBUS AIR FORCE BASE, MISSISSIPPI

The first major milestone in the Civil Air Patrol Cadet Program is the General Billy Mitchell Award which establishes eligibility for participation in advanced special activities and automatic award of the grade of Airman First Class (E-3) should the cadet later choose to enlist in the Air Force. To earn the Mitchell Award, a cadet must fulfill all requirements of the fifteen structured achievements and attend an encampment.

Encampments are conducted annually by each Civil Air Patrol Wing at Air Force and other military service installations or at other available community, state, and federal facilities. The program provides exposure to everyday life in an aerospace environment and practical experience and information on career opportunities. The

encampment conducted at Columbus Air Force Base, Mississippi, during June for cadets from the CAP Tennessee Wing provided a wide variety of informational, educational, recreational, and training activities that were enthusiastically received by all participants. The successful program was made possible through the excellent support of Columbus Air Force Base and the personal interest and involvement of a number of Air Force personnel, including the base commander, Lt Col Susan Lundstrum.

Civil Air Patrol is indebted to the Department of Defense and the personnel of all DOD installations that supported the 1981 Civil Air Patrol Cadet Encampment Program.



Air Force Lt Col Susan Lundstrum participated in cadet awards ceremony.

Air Force 1st Lt Bethany Wolford, right, briefs a cadet on aircraft maintenance.



## CADET ENCAMPMENTS

Attending an encampment can be one of the most rewarding experiences in a cadet's life. In most cases the encampment is the cadet's first exposure to the everyday excitement and challenge of the aerospace world. Cadets get a first hand look at military life style. But most important, they get the opportunity to apply the knowledge gained in the cadet program to practical situations. They develop their potential for aerospace leadership in an actual aerospace environment.

The encampment is a significant event in the structured cadet program. The knowledge and experience gained opens the door to advancement and further opportunity. It is a prerequisite to the completion of the first seven of the 15 structured achievements, and the award of the General Billy Mitchell Award which is the first major milestone in the cadet program. Cadets who earn the Mitchell Award become eligible for more advanced special activities and automatically earn the grade of Airman First Class (E-3) should they choose to enlist in the Air Force.

During 1981, a total of 5,422 CAP cadets and 989 CAP senior members attended encampments. Encampments were conducted at 26 Air Force bases and at 30 other Department of Defense facilities. An additional 26 encampments were conducted at non-DOD facilities.



**Air Orientation.** Maryland Wing CAP cadet and pilot Virginia Thresher listens to air traffic coordination during a helicopter flight over the nation's capital. Virginia was among the Middle East Region cadets participating in a region sponsored air and space orientation course. (Photo by Ken Kennedy)



**Officer's School.** The National Cadet Officer's School was conducted at Maxwell Air Force Base, Alabama, during June for 100 CAP cadets from throughout the nation. The ten-day course is conducted to train and develop cadets for additional and expanded duties and responsibilities in CAP. From left: John Vozzo, Irwin Fish, Carla Cockrell, Erik Nielson, Mathew Bampton, and Carter Jones. (Photo by Leonard Wood)



**Survival School.** Cadet Michelle Grobe was responsible for communications during the 1981 Hawk Mountain Summer Survival School near Reading, Pennsylvania. The course was attended by 133 cadet and senior members from 13 CAP wings. The Hawk Mountain school itself celebrated its 25th anniversary of service to the CAP search and rescue effort. (Photo by T.E. Jensen)



**Orientation Training.** Jim Harper of California's San Fernando Senior Squadron assists cadets Ricardo Gonzales and Sean Wilson fill out orientation flight cards upon completion of flight provided by Harper. (Photo by Al Meryman)

**Students Arrive.** Some 100 outstanding CAP cadets from throughout the nation gathered at Maxwell AFB, Alabama, for the annual Cadet Officer's School. The course, conducted in Air University facilities with the support of Air University faculty members and Air Force reserve personnel, consisted of seminar instruction, lectures, leadership labs, and sports. (Photo by Leonard Wood)

## FLIGHT TRAINING

Civil Air Patrol allocated \$28,000 in its fiscal year 1981 budget to provide locally conducted solo flight training and orientation flights for cadets. The funds provided 53 solo flight scholarships to cadets in the 52 CAP wings and overseas units. Scholarships covered expenses of ground school and flight training leading to solo qualification.

All CAP cadets may qualify for a series of six 30-minute orientation flights. The program is funded and conducted at wing and unit levels, but the national treasury provides partial reimbursement for the first flight. During 1981, the 52 wings and overseas units were partially reimbursed for the expense of providing over 2,600 cadets with their first flight experience through a locally conducted orientation flight.

## SCHOLARSHIP PROGRAM

In 1981, the Civil Air Patrol, through its National Scholarship Program, provided a total of \$25,500 to 50 of its members to supplement their college or vocational-technical school education. Scholarships are given for study in engineering, education, humanities, theology, and science. Recipients range from young persons interested in learning to be aircraft mechanics to those pursuing advanced degrees in aeronautical engineering or aerospace medicine. In addition to the national scholarship program, many scholarships are provided by local and state level CAP units.



## EMERGENCY SERVICES

The primary objective of Civil Air Patrol Emergency Services activities is to save lives and relieve human suffering while still protecting the lives and equipment of those involved in rendering the services. To accomplish this end, professionalism in organization, training, planning, and mission execution are emphasized. Particular care is exercised to insure that only trained and qualified members are allowed to participate in emergency services missions. CAP Emergency Services includes search and rescue in support of the Aerospace Rescue and Recovery Service (ARRS) and civil defense and disaster relief operations in support of local, state, and national emergency services organizations. CAP works with local civil officials and rescue organizations in search and rescue operations and has a mutual support relationship with the American Red Cross, Salvation Army, and other humanitarian organizations in conducting disaster relief operations.

### SEARCH AND RESCUE

Responsibility for conducting search and rescue operations throughout the United States and its possessions is assigned to agencies designated by the National Search and Rescue Plan. The search and rescue mission is divided into the three regions of Inland, Maritime, and Overseas to prevent overlapping of responsibilities. The United States Air Force is assigned responsibility as search and rescue coordinator for the inland region of the United States. It discharges its responsibility through the Military Airlift Command's Aerospace Rescue and Recovery Service operation of the Air Force Rescue Coordination Center (AFRCC) which coordinates federal resources upon re-

quest. As the civilian auxiliary of the Air Force, Civil Air Patrol provides the primary resources available in fulfilling this responsibility.

During 1981, CAP flew 17,878 hours on 1,160 Air Force authorized search and rescue missions and was credited with locating 660 search objectives and saving 77 lives.

For the tenth consecutive year the number of CAP finds on Air Force authorized missions has increased—from 103 in 1971 to 660 in 1981. CAP has also continued to fly 75% of search hours on missions coordinated by the AFRCC. In addition to supporting Air Force requests, the Puerto Rico CAP Wing frequently provides search assistance to the U.S. Coast Guard.

Realistic search and rescue training using SAR aids such as the Interim Track Analysis Program (ITAP) and the emergency locator transmitter (ELT) has also increased. According to AFRCC data, the ELT has continued to be the best aid searchers have, and the best hope for a timely rescue of survivors of air crashes. The ITAP has also proven to be an extremely reliable tool in those instances where it was usable. ITAP is a Federal Aviation Administration innovation that was conceived with the help of the CAP California Wing. The program was designed to assist search planners in locating lost aircraft by recalling computer-generated records of radar signals. Retrieval of the stored radar data at the Air Route Traffic Control Center, in many cases makes it possible to pinpoint or estimate the aircraft's last location prior to dropping off the radar. The CAP mission coordinator routinely requests and uses this important data in search planning.



**Medical Mission.** A Cessna 172 belonging to the Pennsylvania Columbia-Montour Senior Squadron was used to transport two kidneys from Bloomsburg to Philadelphia for implantation. CAP Senior Member Steve Kelley, a transplant specialist at Geisinger Medical Center of Danville, Pennsylvania, loaded the kidneys in the plane piloted by CAP Senior Member Lori Weber. Officials at Geisinger Medical Center were elated with the success of the mission and indicated that the CAP squadron would be called upon to assist in this valuable service as the need arose.



**Fatal Crash.** The wreckage of a Piper Seneca, in which the pilot was killed, was located by a ground search team from West Virginia's Morgantown Composite Squadron. The Search was hampered by heavy snowfall, sub-freezing weather, rugged terrain, and lack of an ELT signal.

#### MISSION SUMMARIES

*The following extracts from official Air Force reports are representative summaries of Air Force authorized missions for which Civil Air Patrol was credited with the saving of lives:*

#### CRASHED CESSNA

**Arizona.** The AFRCC was notified of an ELT signal being received in the Prescott, Arizona area and a Mayday call reported at approximately the same time. Arizona CAP located a Twin Cessna three miles west of Prescott that had lost an engine and crashed on approach to the Prescott airport. The pilot and three family members were recovered in good condition.

#### CAROLINA CRASH

**North Carolina.** A Cessna with no flight plan was overdue. North Carolina CAP located the crash three miles north-east of the Raleigh Durham Airport. The Wake County sheriff used a national guard helicopter to recover the survivor.

#### ONE SAVED

**Oregon.** A light aircraft with two persons on board and no flight plan filed was reported overdue on a flight from Crescent City to Gasquet, California. Oregon CAP located the crashed aircraft eight miles east of the Crescent City airport, and the Del Norte County Sheriff's Mountain Rescue Team recovered the one survivor and one deceased and delivered the survivor to Seaside Hospital.

#### FOUR SAVED

**Colorado.** A Piper Cherokee with four persons on board was reported missing while on a flight from Gillette, Wyoming to Farmington, New Mexico. Colorado CAP was alerted by the AFRCC and used airborne direction finding equipment to locate the crash 40 miles southwest of Alamosa, Colorado. The four survivors were recovered to the Alamosa Community Hospital.

#### GLACIER CRASH

**Alaska.** Alaska CAP was requested to assist in search for a Cessna 150 with two persons aboard overdue on a flight from Gulkana to Northway, Alaska. Approximately five hours into the search, a CAP C-172 began receiving an ELT signal and located the downed aircraft at the 8,000 foot level of Copper Glacier. Both occupants of C-150 were walking near the aircraft and were recovered by an Alaska Pipeline Service helicopter. Two lives saved were credited due to the high winds and extremely low temperatures at the crash location, and because the plane had crashed a considerable distance from the planned flight route and subsequent planned search area.



**Search Exercise.** Mission pilot Ed Williams (right) and observer Vic Sandau check assigned route before take-off during the first five state Rocky Mountain Region search and rescue exercise and competition conducted at the Odgen, Utah Municipal Airport. The Colorado and Montana CAP Wings won all six of the awards given in the competition. (Photo by Jean Mays)



**Aircraft Inspection.** Air Force Lt Col Thomas M. Hoskinson (left), Colorado Wing Liaison Officer; Major Richard Watkins (center); and Cadet Greg Lair perform aircraft condition inspection during the Rocky Mountain Region search and rescue exercise and competition. In addition to awards for best performance, best mission staff, and best ELT crew, the Colorado CAP Wing also won the award for best appearing aircraft. (Photo by Jean Mays)

#### **"MAYDAY" MISSION**

**Alaska.** Alaska CAP initiated a search when the Anchorage Flight Service Station reported that a "Mayday" transmission was heard by a light aircraft pilot 75 miles southwest of Fairbanks. A Fairbanks CAP aircrew located a crashed aircraft near Totatlanika Airstrip, two miles southwest of Fairbanks. A 283rd Air Medical Detachment helicopter picked up the two survivors and delivered them to an army hospital.

#### **LOST STUDENT**

**North Carolina.** A North Carolina CAP member returning to Raleigh from a CAP practice search mission heard, on the Raleigh-Durham approach frequency, a student pilot indicating that he was lost on his first solo cross-country flight from Rock Hill, South Carolina, to Raleigh. The CAP pilot offered the services of his direction finder equipped aircraft to the Raleigh approach who, by this time, had lost contact with the student. After an hour and a half of patient radio communication with the disoriented and frightened student, the CAP pilot tracked and located the aircraft near Rockingham-Hamlet airport and coaxed the student down.

**Unusual Takeoff.** A CAP Piper Cherokee was being ferried from Maxwell AFB, Alabama, to Denver, Colorado, when engine trouble caused it to make an emergency landing on a state highway. After repairs were made, Alabama State Troopers assisted by blocking a stretch of the road to insure a safe takeoff. (Photo by Jackie Walburn)



#### **ELT FIND**

**Colorado.** Colorado CAP was requested to investigate a distress activated ELT signal being received in the Eleven Mile Reservoir area. Colorado CAP ground team members and members of the Colorado Search and Rescue Board located a crashed PA-32 near Mt. Yale. Three survivors were recovered by a helicopter from Ft. Carson and a fourth person was transported down the mountain by a ground rescue team. The four survivors were taken to Salida County Hospital for treatment of frostbite and other injuries. The pilot, who had left the crash site to obtain help, was not located.

#### **OVERDUE BOATERS**

**Alaska.** Alaska CAP was requested to assist in the search for four boaters missing on the Deska River, 60 miles northwest of Anchorage. Alaska CAP located the four people, separated into two groups of two, who had been stranded since their boats drifted away three days earlier. They were wet, cold, and had been without food for three days. An Air Force helicopter was used to recover the four survivors and deliver them to Alaska State Troopers at Talkeetna.



**Launch Vehicle.** The Southeastern Senior Squadron of the Alaska Wing owns and operates this unusual vehicle. It is a four-wheel drive vehicle that has been modified to launch and retrieve CAP float aircraft.

#### **LOST HIKERS**

**New Mexico.** New Mexico CAP was alerted to search for two young men overdue on an overnight snow shoe hike in the Pecos Wilderness area, north of Santa Fe, New Mexico. When located by New Mexico CAP, one man was suffering from hypothermia and the other was dead from exposure. A New Mexico National Guard helicopter was used to recover the subjects and deliver them to St. Vincent's Hospital in Santa Fe.

#### **LOST SNOWMOBILER**

**Alaska.** Alaska CAP was asked to assist in search for a snowmobiler who was overdue in returning to Anchorage from Eureka Lodge, 90 miles northeast of Anchorage. The man who had become disoriented was located by Alaska CAP and recovered by a CAP aircraft that was landed on a frozen river.

### **BLOOD AIRLIFT**

**Texas.** The American Red Cross at Waco, Texas requested CAP assistance to transport whole blood from Waco to Kerrville, Texas for a woman undergoing surgery for uncontrolled bleeding from a lacerated vein in the chest incurred in an automobile accident. The Texas CAP performed the airlift mission and the patient's life was saved.

### **HORSEBACK FALL**

**Colorado.** The Archuleta County sheriff requested Colorado CAP assistance in the recovery and evacuation of a man suffering from injuries sustained when he fell from his horse. A ground team composed of members of the sheriff's department, county emergency medical technicians and Colorado CAP members recovered the man 15 miles west of Pagosa Springs, Colorado and delivered him to a helicopter pickup point from where he was transported to Mercy Hospital in Durango.



**Team Training.** Jerry Alsum plots map and Jim Alsum monitors direction finder during a training exercise by the Colorado CAP Ground Search and Air Rescue Team. The team is recognized by the Colorado Search and Rescue Board and structures its training along lines approved by the Board. All team members are active members of CAP units within the Colorado Wing, but the team itself is not affiliated with any squadron and the team leader reports directly to the Colorado Wing Emergency Services Officer. (Photo by Stan Kilgore)

### **ELT FIND**

**New Mexico.** A Piper Warrior with two persons on board crash landed approximately ten miles east of Santa Fe, New Mexico. New Mexico CAP used airborne direction finding equipment to locate the ELT signal and the Army National Guard recovered the survivors who suffered from multiple broken bones.

### **MISSING PERSON**

**Michigan.** At the request of the Wexford County sheriff, Michigan CAP assisted in search for a 22 year-old woman reported missing by her mother. The woman who had been lost four days before being reported missing was suffering from exposure and dehydration when located by Michigan CAP and recovered by Wexford County sheriff.



**Safe Pilot.** Mary Jane Law received the National Pilots Safety Award for an emergency landing when her aircraft lost power. Mary is a member of Florida's Joe Ross Senior Squadron and the Florida Women's Pilots Association.

### **MISSING WOMAN**

**Ohio.** Ohio CAP was requested to assist the Fairfield County Sheriff in locating an elderly woman missing from the Fairfield Nursing Home. An Ohio CAP aircraft was used to locate the woman who was sunburned and badly dehydrated. The sheriff used ground vehicles to recover the survivor and deliver her to the Lancaster Hospital.

### **POISONED CHILD.**

**South Dakota.** In response to a request from the South Dakota Poison Control Center, South Dakota CAP transported medicine from the Joe Foss Airport at Sioux Falls to the Pierre Municipal Airport for use in treating a two year-old boy suffering from iron poisoning.

### **COLORADO CRASH**

**Colorado.** A Cessna 210, with five persons on board, enroute from Amarillo, Texas, to Gunnison, Colorado, was reported overdue. Colorado CAP located the downed aircraft two miles southwest of the Gunnison Airport. The five survivors were recovered by a U.S. Army helicopter and delivered to the Gunnison County Hospital.

**Refueling Duty.** Cadets James Vinson (left) and Joe Melton of the South Carolina Wing Coastal Charleston Composite Squadron refuel a CAP aircraft during the wing's annual Search and Rescue test. The exercise involved 100 seniors and 65 cadets in searching for two simulated missing aircraft and a boat missing on a large lake. (Photo by Gregory Hoffeditz)



## SARSAT PROJECT

Civil Air Patrol will assist the Air Force in the test phase for the proposed Search and Rescue Satellite Aided Tracking (SARSAT) system by providing test beacon activations at selected sites throughout the United States. The SARSAT system project is a joint effort of the United States, Canada, and France to use satellites to augment and improve the existing search and rescue capability to locate ships and aircraft in distress. The SARSAT concept involves the use of satellites in low, near-polar orbit to monitor distress transmissions. The signals received by the satellites will be relayed to a network of ground stations which will fix the location of the emergency. A mission control center will use the data to alert the appropriate rescue coordination center which will then begin the actual search and rescue operation in accordance with conventional practice. The first SARSAT launch is planned for mid-1982.



**Utah ELT.** Cadet Richard Armstrong of Utah's Mt. Olympus Cadet Squadron practices tracking a ground ELT signal using a home-built direction finder. He was participating in a communications exercise staged by the CAP Utah Wing to train cadets. (Photo by Jerry Weilman)

## DISASTER RELIEF.

Civil Air Patrol provides disaster relief support to civil authorities at local, state, and national levels. Local and state support is contingent upon agreements with those governments. Support is provided at national level through agreement with humanitarian organizations such as the American Red Cross and the Salvation Army or with federal agencies.



**Flood Threat.** At the request of the American Red Cross, members of New York's Plattsburg Composite Squadron assisted with two serious flood threats. The 24 person CAP team provided support in sandbagging, family evacuation, shelter management and communications.

When Civil Air Patrol performs disaster relief activity under agreement with a federal agency as authorized by Public Law 557, CAP is considered a federal resource as the auxiliary of the U.S. Air Force. The use of CAP as a federal resource is not authorized except when disasters are beyond the capabilities of other resources available to civil authorities.

U.S. military forces may support civil authorities in relieving the suffering of victims of floods, storms, fires, and other catastrophies. Under the Department of Defense, the Department of Army acts as executive agent for all military support in actual or threatened major disasters.

The Air Force Reserve is assigned overall responsibility for Air Force participation in natural disaster relief operations. Each numbered Air Force (Reserve) authorizes and coordinates employment of CAP within its respective geographical area and coordinates all Air Force disaster relief activity with the Region CONUS Army. Every CAP wing has entered into an agreement with its respective numbered Air Force (Reserve) to make CAP personnel and resources available when needed for relief activity.

During 1981, CAP participated in 2 natural disaster missions in 2 states, supported by light aircraft, emergency vehicles, radio networks, and emergency power generators.



**Command Visit.** General Thomas M. Ryan, Jr. (right), Commander of Air Training Command, talks with Lt Gen Charles G. Cleveland (center), Commander of Air University, and Brig Gen David L. Patton, Commander of Headquarters CAP-USAF and Executive Director of Civil Air Patrol. General Ryan visited the CAP National Headquarters for a briefing on the liaison assistance role of CAP-USAF in support of Civil Air Patrol. (Photo by Ken Kennedy)

## COMMUNICATIONS

With its nationwide communications network, CAP continued to provide outstanding communications support in fulfilling its responsibilities in search and rescue and local emergency situations. Activation of the system commences with the National Headquarters station that conducts a daily net with stations in each of the eight CAP regions. Region stations then participate in network broadcasts involving stations in each of their wings. Wing stations conduct networks within their state that provide contact with the lowest echelon and can be monitored by individual CAP members. This relay system enables communications between the National Headquarters and even the most remote locations.

Additionally, there are special networks organized for specific purposes. The varied frequencies on HF, VHF, and citizens radio service permit many networks to operate simultaneously without interference, and in an emergency the CAP networks can be interfaced into an effective, cohesive communications system.

## ENVIRO-POD PROJECT

Civil Air Patrol is evaluating employment of a compact self-contained, panoramic, 2-camera reconnaissance system designed to be secured to light aircraft. The Environmental Protection Agency system called "Enviro-Pod" can provide vertical and forward-looking color or black and white photography of high resolution. If adopted for CAP use, it will be a valuable asset for air reconnaissance of areas damaged by natural or man-made disasters.



**Flight Instructor.** Air Force 1st Lt Cyndhi Hughes was the first woman instructor-pilot at Laughlin AFB, Texas. Cyndhi is a former cadet member of the CAP Hawaii Wing and began her flying career at a CAP flying encampment where she soloed in a glider. She went on to earn her private, commercial, and instructor-pilot licenses, and before joining the Air Force became director of glider operations for the CAP Hawaii Wing. (Photo by David Diehl)

## MILITARY TRAINING ROUTE SURVEYS

CAP works to assure the safety of Air Force and Reserve Force aircrew members by helping survey military low-level flight training routes for hazards and environmental factors. The FAA has established military training routes to allow military pilots to practice low-level bomb run and reconnaissance missions. The routes enable a realistic yet safe mission with the least possible environmental impact.

To assure the continued safety of these routes, the FAA requires aerial visual surveys for obstructions and other hazards. The surveys must be flown below 1,000 feet, once down the center and once along each side. Strategic Air Command (SAC) has in the past used more expensive commercial light aircraft and pilots to carry SAC personnel to perform these surveys. Now, where possible, SAC units have turned to CAP to fly the routes. During CY 1981, CAP assisted in the survey of 24 routes.

## AIR FORCE PARTS DELIVERY

A new and, at the moment, limited Civil Air Patrol activity, the delivery of aircraft parts and other required items, is benefitting both CAP and the Air Force. Many Air Force bases serve as central supply points or have satellite operations at nearby bases. When there is an immediate need for parts, CAP can transport the required items, allowing combat aircraft to maintain operational status without the delays of scheduled transportation and without wasting valuable aircrew training time.



**ELT Training.** Captain Paul Owens of the Texas Wing Group 12 instructs in the use of a Emergency Locator Transmitter (ELT) direction-finding unit. The Shell Oil Company donated \$450 to the group to purchase two of the devices. The group conducted a bivouac on two separate weekends to train approximately 70 of its members in ground search and rescue techniques.

## AEROSPACE EDUCATION

### AEROSPACE EDUCATION WORKSHOPS

Aerospace Education Workshops for teachers continue to be the most visible and the most important contribution Civil Air Patrol makes to education. These college workshops provide the basic understanding of aviation and space needed for teachers to provide meaningful, up-to-date education for their students. Each year hundreds of thousands of youngsters, nationwide, find out about the modern aerospace world they live in through the knowledge and the materials their teachers bring back to their classrooms.

In 1981, Civil Air Patrol supported 189 graduate-level workshops in 39 states, Puerto Rico, and the District of Columbia. These programs were conducted in cooperation with colleges, universities, and individual school systems and were attended by more than 5000 teachers.

Civil Air Patrol provides support in developing curriculum and advising and assisting according to the needs of the host institution. The workshop is part of the host institution's course of study. The administration and direction of the workshop is provided by the college. Air Force support is authorized in the form of Air Force reserve personnel on active duty tours who serve as liaison and instructional resources. In some cases, Air Force airlift is provided for workshop participants to visit an aerospace facility as part of the workshop curriculum.

### AEROSPACE EDUCATION MATERIALS

**Falcon Force.** The Falcon Force kit (a self-contained, multidisciplinary learning kit designed for use in grades



**Aerospace Presentation.** NASA Aerospace Education specialist Lloyd H. Aronson, left center, participated in an all-day science program for elementary school students in Reading, Pennsylvania. The presentation, sponsored by the Pennsylvania CAP Reading Composite Squadron, was well received by the students according to the CAP Aerospace Education Officer Barbara Whitehill who arranged the program.

4-6) was conceived and developed by a panel of experienced aerospace education teachers over a period of two years. The purpose of Falcon Force is twofold—

(1) To provide a flexible and motivational learning tool through which the dynamics of aerospace can be better presented to youngsters, and

(2) To provide a self-contained kit to the teachers which will allow them to include aerospace topics in their classrooms regardless of their personal aviation/space backgrounds.

The Falcon Force kit was produced and went on sale to the public schools in May 1981. Many local CAP units are using the Falcon Force kit with their cadet members and also have presented them to elementary schools in their communities. Promotional materials were prepared and distributed to give the widest broadcast of this kit to the general public and public schools.

**Aerospace: The Challenge.** The high school aerospace education textbook, *Aerospace: The Challenge* continues to be used by high schools and Air Force Junior ROTC. It was also used in several adult continuing education programs around the nation. In 1981, 6000 copies of the second printing were sold.

**Promotional Presentation Package.** CAP produced a 35mm slide/script presentation package to promote the awareness and sale of the aerospace education classroom materials developed by the Center for Aerospace Education Development. The promotional package is used by the Liaison Region Directors of Aerospace Education and the CAP Wing Directors of Aerospace Education to promote aerospace education materials in the nation's public schools and colleges.



**National Congress.** CAP National Commander Johnnie Boyd and George Gay were among the participants in the National Congress on Aerospace Education in San Antonio, Texas, in April. Mr. Gay was the only member of Torpedo Squadron 8 to survive the Battle of Midway during World War II. (Photo by Bill Odom)

**New Instructional Items.** New educational materials were developed during 1981 for use in schools, CAP programs, and by the United States Air Force. Two new packets in the "Meet Your United States Air Force" were completed—one covering the Air Training Command and the other the Air Force Systems Command. A new Aerospace Personality Series packet on Amelia Earhart was completed and added to the inventory of aerospace education material.

Another publication, originated and written in draft by CAP Captain Ruth Gold West, was edited, refined, and printed for use with the CAP cadet program. The publication, *Aerospace "Take-home" Crossword Puzzles*, is designed as an additional student learning tool in the study of the basic textbooks *Your Aerospace World* and *Aerospace 81 (A-'81)*.

*Your Aerospace World* was completely revised and re-named *Aerospace '81. A-'81* features an expanded table of contents, an index, and a full list of learning objectives for the student. To accompany the new textbook, CAP developed an instructor's guide. New tests on the textbook were also developed and built on the learning objectives list. The

combination of these three integrated items is expected to result in an improved learning program for the CAP cadets and general public users. The value of this new aerospace education packet is evident in the fact that the entire Los Angeles, California school system is now using *Aerospace '81* and its instructor guide as their basic aerospace education textbook.

A new aerospace personality learning activities booklet on Amelia Earhart was published in 1981 for use in public schools. This publication was sponsored by the 99's, the international organization of licensed women pilots. The 99's ordered 2500 copies of the first edition.

Nearing completion is an extensive manuscript initially prepared by aviation pioneer Harold E. Morehouse. In co-sponsorship with Paul E. Garber, (Historian Emeritus, NASM), CAP is providing editorial and visual services as part of the final preparation of the 1,500 page manuscript. One of the more interesting features of the published form will be numerous, never-before published photographs. The book is expected to serve as a highly valuable and prized resource for scholars, educational institutions, and aerospace-oriented organizations.



**Pentagon Tour.** During a week-long Middle East Region air and space orientation course, cadets Kenneth Walker and Wendy Leatherwood viewed a portrait of the late Air Force General Daniel (Chappie) James, Jr., in the Pentagon. The sixteen cadets participating in the program also were given tours of the National Air and Space Museum, the Andrews AFB flight line, and Dulles International Airport. (Photo by Ken Kennedy)



**Spanish Cadets.** The CAP New Mexico Wing hosted eight IACE cadets and their escort during their ten-day visit to this country. The group met Governor Bruce King and visited such sites as Carlsbad Caverns, Acoma Pueblo, White Sands National Monument, and the International Space Hall of Fame (shown in photo with rocket sled). The cadets lived in the homes of local families during their stay in New Mexico.



**Teaching Technique.** Mrs. Diane Martin from Mobile, Alabama, demonstrates an aerospace education teaching technique during the "Flea's" segment of the 1981 National Congress on Aerospace Education. The annual congress, cosponsored by CAP, FAA, and NASA, was held in the El Tropicano Hotel in San Antonio in early April. (Photo by Bill Odom)

### WORLD AEROSPACE EDUCATION ORGANIZATION

The second biennial World Congress on Aerospace Education was held in July 1981 in Amsterdam, Holland. It was a tremendous success with approximately fifty representatives from the United States in attendance. The World Aerospace Education Organization (WAE0) was formed in 1977 as an international organization dedicated to the following objectives:

- To group, at international level, organizations, firms and individuals interested in aerospace education to provide an international forum for exchange of experience;
- To promote the methods and practices used in aerospace education and to contribute to the creating of international standards related to aerospace education;
- To identify the main trends in aerospace education in the developing countries, making use of the experience of developed countries; and,
- To increase the average person's understanding of the importance of aerospace for life today and tomorrow.

Civil Air Patrol was the first institutional member of WAE0.

The third biennial Congress will be held in Washington D.C. in July 1983.

**Student Award.** Cadet Timothy Page of Colorado's Arvada CAP Cadet Squadron was recognized as the Outstanding Aerospace Education Student of the Year by the Air Force Association. John Badger presented the \$100 cash award to Timothy during the Colorado State AFA convention at the Air Force Academy.



### NATIONAL CONGRESS ON AEROSPACE EDUCATION

The Fourteenth National Congress on Aerospace Education was held in San Antonio, Texas, April 2-4, 1981. The El Tropicano Hotel served as Headquarters for this Congress, an annual aerospace education event jointly sponsored by Civil Air Patrol, The Federal Aviation Administration, and the National Aeronautics and Space Administration. Approximately eight hundred educators, representatives of the aviation and space industries, and a number of exhibitors participated in Congress '81.

The program was designed to offer a variety of aerospace education learning opportunities and to develop an understanding and awareness of the many issues and activities occurring almost daily in the aerospace world on both the national and international scene.

Mr. Hal Bacon, Assistant Director of Aerospace Education at National Headquarters CAP, served as Master of Ceremonies for the Congress. The keynote speaker was Mr. George Gay whose talk "The Sole Survivor" recounted Mr. Gay's experiences as the sole survivor of Torpedo Squadron Eight in the Battle of Midway. Others participating in the Congress program were:

- Major General Charles G. Cleveland, Vice Commander, Air Training Command
- Mr. Eugene McCoy, NASA
- Mr. Samuel Prince, FAA
- Ms. Judy Harold, Teacher, California School System
- Lt Col Robert Paulson, CAP
- Joe Griffith, Humorist

The Heritage Segment was star-studded by the presence and participation of such notables as Dr. Paul Garber, Historian Emeritus, National Air and Space Museum; Lt Gen James H. Doolittle, USAF (Ret); and Brig Gen Charles E. Yeager, USAF (Ret).

Field trips to Kelly, Randolph, Lackland, and Brooks Air Force Bases and to Fort Sam Houston were also a part of the Congress activities.

The 1982 Congress on Aerospace Education will be held at the Sheraton-Atlanta Hotel, Atlanta, Georgia, on 1-2-3, April 1982.

## SENIOR MEMBER TRAINING

In its 1946 Act to incorporate Civil Air Patrol, Congress decreed that an objective of the corporation would be "to provide aviation education and training, especially for its senior and cadet members." The three missions of Civil Air Patrol attract a diverse group of senior members with varied education and skill levels that make a strong and standardized training program a basic necessity. Not only must members be trained to work with cadets and aerospace personnel, and in specialties required for the emergency services mission, they must also be trained to do the routine day-to-day jobs in areas such as personnel, administration, logistics and finance, which are fundamental to any successful organization. Because of the volunteer nature of the organization and its relatively high turnover in membership, senior member training is a continuing process.

The Division of Senior Training at CAP National Headquarters develops and implements training programs in relation to the demonstrated and expressed desires of CAP members to accomplish the missions of Civil Air Patrol. The CAP senior training program is organized into five phases.

### LEVEL I - CAP ORIENTATION COURSE (Membership Award).

New members are introduced to the unique aspects of Civil Air Patrol through the Level I CAP Orientation Course which is composed of a four-hour slide/tape presentation. During this course they learn the history, organization, missions, and programs of Civil Air Patrol and receive basic instructions on career development programs and CAP customs, courtesies and proper wear of the CAP uniform. This knowledge helps them in deciding the CAP mission they wish to support and the job specialty they may wish to pursue.



**Joint School.** Air Force Rocky Mountain Liaison Region Commander Colonel E. J. Zulauf (left) discusses curriculum of the 1981 Rocky Mountain Region Staff College and Cadet Leadership School with CAP Captain Barry Sullivan and Cadets Steven Weld and Greg Lair. The joint senior member and cadet schools were conducted at the Air Force Academy and received excellent support from academy personnel.



**Bronze Medal.** Major Robert Boren, Commander of Ohio CAP Cleveland Group IV, was presented CAP's Bronze Medal of Valor by Air Force Lt Col Gary Goldenbogen, former Ohio Wing Liaison Officer. Major Boren earned the award for his lifesaving actions on behalf of a Pennsylvania Wing CAP member during a search mission in July 1980.

### LEVEL II - TECHNICAL SPECIALTY TRAINING AND OFFICER DEVELOPMENT (Senior Member Certificate of Proficiency)

Senior members begin training in one or more of the CAP specialties and learn to perform unit functions. Trainees are provided study guides and are encouraged to study CAP directives pertaining to their specialty. New members often train under the supervision of experienced members in an on-the-job training situation.

Level II training is augmented through locally conducted Squadron Leadership Schools. The weekend schools provide members with a working knowledge of all specialties and in-depth instruction in the specialty of their choice. Members also learn to handle CAP-unique leadership and counseling situations, and receive instruction on planning unit meetings and activities. A side benefit that is perhaps as important as the stated course objective is the opportunity for members from the same geographical area to get to know each other, which often results in more cooperation between units in developing and conducting activities.

Senior members also study a CAP Officer Course administered by the Extension Course Institute at Gunter Air Force Station, Alabama, to prepare them to become effective officers in Civil Air Patrol.



**Flight Funds.** Tom A. Thomas, Jr., (right) presented a check for \$30,000 to Oklahoma Wing Commander Col Charles Underwood. The donation will be used to fund flying scholarships for 100 Oklahoma Wing CAP cadets over the next 10 years. Thomas is a retired Air Force colonel and president of the Thomas Concrete Company in Oklahoma City.



**Pennsylvania Award.** Cadet Richard C. Yingling of Pennsylvania's University Composite Squadron was presented the General Carl A. Spaatz Award by Pennsylvania Governor Dick Thornburg. Receipt of CAP's highest cadet award was in recognition of achievement during his five year membership in Civil Air Patrol. Richard attends Williamsport Area Community College and is studying to be an aviation maintenance technician.



**Honorary Members.** Governor John Y. Brown, Jr. of Kentucky and his wife, TV personality Phyllis George, were made Honorary Members of CAP in a presentation at the governor's office in Frankfort. The presentation was made by Kentucky Wing Commander, N. Lee Tucker, right, and Kentucky Group IV Commander, Alice Tucker.



Thirty CAP cadets attended the Air Training Command Familiarization Course at Mather Air Force Base, California, during July. The seven-day course, supported by the 323d Flying Training Wing, included trips to Travis AFB and McClellan AFB, a navigation mission flight in a T-43 aircraft, an airborne refueling mission in a SAC KC-135 aircraft and orientation flights in California Air National Guard UH-1 helicopters. Cadet Janice D. Rayome of the California Wing was one of four outstanding cadets selected to receive an orientation ride in the T-37 jet trainer. (Photo by Ken Kennedy)

The 1981 National Cadet Competition was conducted at Maxwell AFB, Alabama, in late December with teams from each of the eight CAP regions participating. The region teams were chosen in earlier rounds of competition between the winners of the 52 wing competitions held even earlier. Top honors in the event went to the Pacific Region team from California's Billy G. Turner Composite Squadron. Cadet Amy Greczyn accepted the Air Force Chief of Staff Sweepstakes Trophy on behalf of the Pacific Region team. Making the presentation were (from left) Air Force Lt Gen Charles G. Cleveland, Commander of Air University; Air Force Brig Gen David L. Patton, CAP-USAF Commander and CAP Executive Director; and retired Air Force Brig Gen Carl S. Miller, CAP National Administrator. (Photo by Ken Kennedy)





Senator Harrison "Jack" Schmitt of New Mexico (right) and Representative Nick J. Rahall, II, of West Virginia, were on hand to greet CAP cadets and visiting cadets from Canada, Europe, and the Middle East during the Washington D.C. phase of the International Air Cadet Exchange (IACE). The 1981 IACE program involved the exchange of 138 CAP cadets and senior member escorts with a like number from 16 other participating nations. Senator Schmitt is a former astronaut and was a member of the Apollo 17 crew that made the last manned flight to the moon in December 1972. Congressman Rahall is a CAP colonel and commander of the CAP Congressional Squadron. Senator Schmitt and Congressman Rahall are both strong supporters of Civil Air Patrol. (Photo by Ken Kennedy)



Alan P. Dickinson of the Michigan Wing Five Point Composite Squadron was selected as the Civil Air Patrol Cadet of the Year for 1981. He was presented a plaque by Air University Commander, Lieutenant General Charles G. Cleveland, during the annual meeting of the CAP National Board in New Orleans on 28-29 August. Alan also received the Air Force Association Special Award and a \$1,000 CAP scholarship in recognition of his outstanding achievements as a CAP cadet.

Cadet members of the CAP National Capital Wing visited the office of each member of Congress and delivered copies of the 1981 Civil Air Patrol Annual Report to Congress. Jerome Brown made the presentation to Senators Jennings Randolph (left) and Robert C. Byrd of West Virginia. Senator Randolph was elected to the U.S. House of Representatives in 1932 and to the U.S. Senate in 1958. He was a sponsor of legislation to charter CAP as a nonprofit volunteer corporation in 1946 and to grant it status as the civilian auxiliary of the Air Force in 1948. Senator Byrd is Minority Leader of the Senate and recently became a member of the Civil Air Patrol Congressional Squadron. Senators Randolph and Byrd are good friends and supporters of Civil Air Patrol.



The fourteenth National Congress on Aerospace Education was held in San Antonio, Texas, on 2-4 April with approximately 800 educators and representatives of aviation and space industries attending. Among those attending were Lieutenant General James H. Doolittle, USAF (Retired), right, and Brigadier General Charles E. Yeager, USAF (Retired). In April 1942, General Doolittle led a force of B-25 medium bombers in a daring raid on the Japanese homeland that marked the turning point in the war against Japan. In October 1947, General Yeager flew the Bell XS-1 through the sound barrier and became the world's first supersonic pilot.





The Civil Air Patrol member-owned communications van and auxiliary power unit are used in support of emergency services operations conducted by the CAP Florida Wing. The unit is one of some 25,000 radio stations in the nationwide CAP communications network. The communications mission of Civil Air Patrol is to organize and maintain a reliable, nationwide, point-to-point, air-to-ground, and ground mobile radio capability for use in day-to-day administration, training, and emergency operations. The CAP national radio net is vital to the success of the peacetime emergency services mission and is included in wartime emergency operations plans as a primary backup to augment military communications resources.

The "Helio Courier" is owned by the Civil Air Patrol corporation and assigned to the CAP Rocky Mountain Region. It is one of 588 aircraft in the CAP corporate-owned fleet that are maintained and operated by individual CAP units throughout the country. Additionally, over 8,000 of CAP's adult members are aircraft owners. The bulk of mission support flying is performed by these members using their privately-owned aircraft. Historically, the volunteer CAP member has borne most of the cost in performing this service; but under a 1960 amendment to the CAP Supply Bill, aircraft maintenance expenses incurred on Air Force authorized missions for both CAP-owned and member-owned aircraft will be paid by the Air Force. This is in addition to the previously authorized reimbursement for the cost of fuel and lubricants used. (Photo by Jerry Wellman)



### LEVEL III - COMMAND AND STAFF (Grover Loening Aerospace Award)

Attendance at a region staff college is central to the training in Level III. The one-week school provides training in communicative, leadership and management skills for squadron level command and staff officers. A total of 459 senior members graduated from region staff colleges in 1981.

Also required for completion of command and staff training are completion of the Air University Extension Course Institute Squadron Officer School and study of four CAP pamphlets summarizing basic leadership/management theory and practice.

### LEVEL IV - SENIOR COMMAND AND STAFF (Paul E. Garber Award)

Level IV is designed for those members who desire to become high-level leaders in CAP. Ideally, every wing and region commander and those members being developed to replace them should complete Level IV. Members at this level represent CAP in their communities with presentations to civic clubs, church groups, and governmental agencies. They also are encouraged to attend the ten-day National Staff College (NSC) conducted annually at Gunter Air Force Station and Maxwell Air Force Base, Alabama. The course provides advanced leadership and management training for wing and region command and staff personnel who have completed a region staff college.



**Flight Preparation.** Lt Roy Bagwell (left) and Cadet Lee Bagwell do some "hangar flying" at Yokota Air Base, Japan, prior to an orientation flight in a Cessna 172 in the Tokyo area. They are members of the Yokota Cadet Squadron, one of the several overseas units of CAP.

The NSC receives outstanding support from the USAF Air University's Professional Military Education schools through the extensive use of their facilities and faculties. Both graduate and undergraduate academic credit are available for completion of the course. Fifty-four members graduated from the NSC in 1981. Eligible CAP members who are unable to attend the NSC may substitute the Extension Course Institute Air Command and Staff College Associate Program for this requirement.

### LEVEL V - USAF SENIOR SCHOOL (Gill Robb Wilson Award)

To qualify at Level V, a member must have three years' experience in command and staff position along with the academic accomplishment of completing Air University's Air War College Associate Program. The training provides an insight into Air Force policy desired of senior leaders in CAP. Only the most dedicated senior members achieve Level V.

### SPECIALIZED MISSION TRAINING

CAP senior members participate in numerous community level specialized training programs, such as those conducted by the Red Cross and local Civil Defense Agencies and national programs such as:

- **Flight Clinics.** Civil Air Patrol encourages flight safety by providing financial assistance to CAP pilots who attend a flight clinic sponsored by either Civil Air Patrol, Federal Aviation Administration, Aircraft Owners and Pilots Association or any other flight safety organization. The clinics include ground instruction in essential subjects such as flying safety, FAA regulations, emergency procedures, flight planning, and aviation weather. Clinic participants also demonstrate safe aircraft piloting skills to an FAA-certified flight instructor or a qualified CAP check pilot. During 1981, 53 flight clinics were conducted by CAP or other agencies throughout the country and were attended by 1,092 CAP pilots.



**Senior Award.** William D. Madsen was recognized as CAP's Senior Member of The Year by Air University Commander Charles G. Cleveland (left) and CAP National Commander Johnnie Boyd during the annual CAP National Board Meeting in New Orleans. Madsen, dressed in his World War II vintage CAP uniform, is currently assigned to the CAP Rocky Mountain Region Headquarters.

- **National Search and Rescue (SAR) School.** The National SAR School is designed to enhance the professionalism of SAR mission coordinators. The one-week course is conducted by the USAF and USCG at Governor's Island, New York. In 1981, an additional school was conducted at Kirtland AFB, Albuquerque, New Mexico, for the convenience of CAP members on the west coast.

- **Mission Coordinator Courses.** Two-day mission coordinator courses are conducted by the Air Force Aerospace Rescue and Recovery Service at locations throughout the country. The courses provide mission coordinator training to persons involved in the inland search and rescue mission under the National Search and Rescue Plan.

- **Mission Training Exercises.** Emergency service training and upgrading programs are conducted by each Civil Air Patrol wing to improve both the skills of individual members and the effectiveness of the organization as a team. Each wing also conducts annual disaster relief and search and rescue test exercises which are monitored by Air Force evaluators. The tests are used to determine the effectiveness of CAP wing training programs and wing capability to respond and satisfactorily execute any mission it may be called upon to perform. An important side benefit of test exercises is training gained through the opportunity provided to practice mission skills under realistic conditions.

- **Federal Emergency Management Agency (FEMA).** The FEMA Emergency Management Institute, formerly known as the Defense Civil Preparedness Agency Staff College, makes courses on Civil Preparedness and Radiological Monitoring available to CAP members for home study.

**CAP-MAP Award.** Connecticut Wing Commander Colonel Kenneth D. Faust accepted a CAP-Management Analysis Program (CAP-MAP) award from CAP National Commander Johnnie Boyd. The award recognized the top performance of Connecticut Wing personnel in the CAP-MAP competition among the nine wings assigned to the CAP Northeast Region.



**Chief Visited.** The New York Wing Bronx Group cadet drill team, the Sweepstakes winner in the 1980 CAP National Cadet Competition, visited with the Air Force Chief of Staff General Lew Allen, Jr., in his office in the Pentagon. Cadet Mario Massa presented General Allen with a Bronx Group Drill Team patch.

- **Communications Training.** An annual communications school is conducted by the CAP Northeast Region at Kutztown State College, Kutztown, Pennsylvania, and by the Great Lakes Region at Michigan State University, Lansing, Michigan. The schools are open to senior and cadet members and provide specialized training in communications procedures and techniques that qualifies attendees for CAP communications officer positions in their CAP unit of assignment.

- **Extension Course Institute (ECI).** Air University's ECI is the correspondence school of the Air Force and it serves CAP members without charge. Home study courses in general military training and specialized fields such as communications are especially beneficial to CAP members. Special CAP courses to augment training in Level II specialties for CAP senior members are currently under development.

- **Air Force Survival Continuation Training.** Public Law 557 authorizes the Air Force to use the services of Civil Air Patrol in support of local programs. The 4950th Test Wing at Wright-Patterson AFB, Ohio, is using the CAP Ohio Wing to assist with continuation survival training of Air Force aircrew members. In accordance with techniques established at formal survival school, Air Force survival instructors at Wright-Patterson use Ohio CAP pilots, planes, and radios to teach aircraft vectoring procedures to aircrews for use in downed aircraft situations. Personnel on the ground transmit vectoring instructions and other information to the airborne aircraft, based on direction of the aircraft sound, distinguishing landmarks of the area, and, if possible, the known geographical location of the ground site. Ground personnel also train with various signaling devices that downed aircrew members could use to communicate their location and needs to airborne personnel. Airborne personnel provide instant feedback to ground personnel on the effectiveness of their efforts. The experience, rather than standard textbook training, provides Air Force aircrews firsthand experience in guiding and communicating with a search aircraft should the need ever arise.

## CAP CHAPLAINCY

The National Chaplain's office is involved in a continuing effort to improve the quality of the Civil Air Patrol Chaplaincy. To this end, training programs are being instigated at two levels—the beginning or basic level and the supervisory level. The basic level training program is designed to take local clergy from the provincial settings and enable them to function in an ecumenical environment. The supervisory training level is designed to assist senior CAP chaplains in conducting conferences, recruiting and training chaplains, and learning managerial and supervisory techniques.

Work has begun to define the role of the chaplain in all facets of the Civil Air Patrol's missions so that commanders understand and develop realistic expectations of what chaplains do and so that chaplains are properly trained to fulfill those expectations.

During the past year a functional concept of the Civil Air Patrol Chaplain Service was established and organizational changes were made to enable the National Chaplain to direct the CAP chaplain program more in concert with the senior CAP chaplains. The titles of the Chairperson and the Vice Chairperson of the National Chaplain Committee were changed to the Chief of Chaplains, Civil Air Patrol, and the Deputy Chief of Chaplains, Civil Air Patrol, respectively, and their duties were more clearly outlined. An Executive Board of the National Chaplain Committee was set up as a smaller working group of five chaplains who can meet several times each year and make recommendations to the larger committee at an annual meeting.



**Chaplain Cited.** Chaplain Virgil B. Schrader was presented the first place Region Chaplains Award by Middle East Region Commander Eugene Harwell (left) and CAP Chief of Chaplains John F. Elliott.



**Color Guard.** Members of Arkansas's Monticello Composite Squadron formed an all-female color guard to perform at Monticello High School football games and other local events. The Arkansas Secretary of State Paul Riviere presented the group two U.S. and two Arkansas state flags which had previously flown over the state capital for use in their activities. From left: Becky Brown, Linda Bickford, Sandra Boyd, Karen Brown, and Terry Durham.

### 1981 HIGHLIGHTS

The Casaday-Elmore Ministerial Grant of \$500 was awarded to Cadet James A. Konicki, CAP, TAK Composite Squadron, New York Wing, for use toward an education in a ministry-related field.

Chaplain, Major, Domingo Velez-Rodriguez, CAP, Clara E. Livingston Cadet Squadron (Puerto Rico Wing), received the Thomas C. Casaday Unit Chaplain of the Year Award.

The Civil Air Patrol Chaplain of the Year Award, presented this year for the first time, went to Chaplain, Lt Colonel, George J. Rennard, CAP, Florida Wing Chaplain.

Principal speakers at the Civil Air Patrol National Chaplain Meeting in New Orleans, Louisiana, included the Very Reverend Thomas H. Clancy, S.J., Vice President of Communications, Loyola University; Lieutenant General D. A. Thompson, USAF, Retired, Fort Worth, Texas; and Chaplain, Brigadier General, John A. Collins, Deputy Chief of Chaplains, USAF.

Civil Air Patrol cadets participated in USAF sponsored Christian Encounter Conferences at Thousand Oaks, California, and Laurinburg, North Carolina.

**River Run.** Members of Virginia's Monticello Composite Squadron engaged in an exercise to test a survival raft on the James River. Thirteen squadron members launched three rafts during the one-hour exercise.



## SUPPORT FOR CIVIL AIR PATROL

### LEGISLATIVE SUPPORT

Public Law 557 (Section 9441, Title 10 USC) was passed on 26 May 1948. The Act, also known as the CAP Supply Bill, was amended on 27 May 1954 and again on 8 September 1980. The statute did the following:

a. Established Civil Air Patrol as an official civilian auxiliary of the Air Force and further clarified it for the purpose of determining civil liability as an instrumentality of the United States Government while performing Air Force assigned missions.

b. Authorized the Secretary of the Air Force to assist Civil Air Patrol in the fulfillment of its objectives. The Secretary of the Air Force, with approval of the Secretary of Defense, was authorized to give, lend or sell to Civil Air Patrol without regard to the Federal Property and Administrative Services Act of 1949:

(1) Major items of equipment including aircraft, motor vehicles, and communications equipment.

(2) Necessary related supplies and training aids that are excess to the military departments. The statute also permitted the use of services and facilities of the Air Force as the Secretary of the Air Force considers to be needed by CAP to carry out its mission.

c. Authorized reimbursement for POL used on Air Force assigned missions including unit capability testing missions and training exercises.

d. Authorized establishment of liaison offices at national, regional, state, and territorial levels of CAP and detail of any officer or employee of the Department of the Air Force to any of the liaison offices, or to any unit or installation of CAP to assist in the CAP training program.

e. Authorized payment of aircraft maintenance expenses relating to operational missions, unit capability testing missions, and training missions.

f. Authorized the payment of travel expenses and allowances to CAP members while performing missions assigned by the Air Force in time of war or national emergency.

g. Authorized the Secretary of the Air Force to use the services of CAP in fulfilling the noncombat missions of the Air Force.



**Outstanding Airman.** MSgt Ronald J. Voegtly of the USAF-CAP Liaison Office at Hickam AFB, Hawaii, talked with cadets during a visit to the Hawaii Wing Hickam Composite Squadron. Sgt Voegtly was selected as the CAP-USAF Outstanding Airman of the Year for 1980. This honor was based on Sgt Voegtly's outstanding professional skill, knowledge, and leadership in support of the HQ CAP-USAF mission and the national Civil Air Patrol program.

### AIR FORCE LIAISON SUPPORT

Under Public Law 557, the Secretary of the Air Force is authorized to provide certain support to Civil Air Patrol. Included is the establishment and manning of Air Force liaison offices at national, state, and territorial headquarters, and at not more than eight regional headquarters of Civil Air Patrol.

The Air Force liaison structure and Civil Air Patrol come together at the Headquarters CAP-USAF/National Headquarters Civil Air Patrol level. The bridge between the Air Force and CAP exists in the person of the CAP-USAF Commander, Brigadier General David L. Patton. As the senior officer in the CAP-USAF liaison structure, he performs duties in a dual status.

As an active duty Air Force officer, General Patton directs USAF support of Civil Air Patrol and commands all Air Force personnel assigned to Headquarters CAP-USAF and the eight region and 52 wing liaison offices.

As a private citizen, he acts as Executive Director of the Civil Air Patrol Corporation and is charged under the CAP Constitution and Bylaws with responsibility to manage the day-to-day activities of the corporation. He is also a voting member of the CAP National Board and National Executive Committee. The Air Force staff assigned to Headquarters CAP-USAF supports General Patton in both functions.

In each of the eight USAF-CAP liaison regions; which correspond to the eight CAP regions that geographically divide the 50 states, Puerto, Rico, and the District of Columbia; an Air Force colonel commands a small Air Force staff in the region office and an officer and non-commissioned officer in each of the USAF-CAP wing liaison offices under his jurisdiction.

USAF-CAP field liaison personnel serve as implementing agents for policies established by the Commander, CAP-USAF; as field advisors to assist CAP commanders in mission performance; and as liaison and control between CAP and federal government resources where facilities, services, equipment, or funds are involved.

Within the Air Force command structure, Headquarters CAP-USAF comes under Air University, commanded by Lieutenant General Charles G. Cleveland, and Air Training Command, commanded by General Thomas M. Ryan, Jr.

**Congressional Squadron.** Nick J. Rahall, II, (right), U.S. Representative from West Virginia's Fourth District and Commander of the CAP Congressional Squadron, presented Senator Jennings Randolph of West Virginia a copy of Frank Burnham's Book on CAP, *Hero Next Door*. Randolph sponsored legislation in 1946 and 1948 that chartered CAP as a non-profit corporation and granted it status as the civilian auxiliary of the Air Force.



## AIR FORCE RESERVE SUPPORT

In its most basic form the Civil Air Patrol is made up of two elements: capital and people. Capital is the equipment, material and funds which permit the CAP to accomplish its various missions; and people are those 60,688 CAP members who make the CAP work.

Lesser known, but no less important, is another group of people who work with the CAP—a cadre of over 400 members of the U.S. Reserve Forces. They provide advice and assistance to the CAP program during inactive duty training and on a limited number of temporary active duty tours.

Although the majority of the reservists working with the CAP in the Reserve Assistance Program (RAP) are members of the Air Force, reservists from the other branches of the armed forces are also represented, on an attached basis rather than assigned.

The 427 Air Force Reservists assigned to the CAP program work primarily at squadron and wing or state level. Composed of 369 officers and 58 enlisted personnel, the reservists assist unit (CAP) commanders in administration and leadership; serve as flight, and search and rescue evaluators; teach aerospace education courses to both CAP cadets and senior members; and function as staff officers and advisors at summer encampments, flight clinics, and leadership workshops.

Patterned after the Air Force Academy Liaison Program and approved in 1967, individual reservists in the RAP bring to the CAP program a background which includes several years of active-duty experience, professional experience in the civilian world which is often applicable to the CAP program, and a desire to provide service at the grass roots level of the CAP program.

During Fiscal Year 1981 and with an authorized per diem budget of \$127,000, USAF reservists provided slightly more than 6,000 mandays of support to the CAP program. This is in addition to the 23,320 days of non-paid or points only advice and assistance time spent with the CAP program.

**Reserve Advisor.** Major Richard Croker (left), Air Force Reserve Advisor to Georgia's Sandy Springs Gadget Squadron explains the operation of a handheld direction finder to cadets Kelli Mitchell, Michael Crowe and John Laudback. The equipment is used by CAP ground teams to track emergency locator transmitter (ELT) signals from downed aircraft.



**Reserve Discussion.** George P.A. Forschler, Deputy Assistant Secretary of the Air Force for Reserve Affairs and Colonel Joseph A. L'Abbe, Reserve Advisor to the Commander CAP-USAF, discuss reserve support for Civil Air Patrol during the CAP National Board Meeting in New Orleans. Mr. Forschler is a long standing member of Civil Air Patrol and served from 1966 to 1970 as Commander of the CAP Idaho Wing and as a member of the CAP National Board.

Non-paid activities include teaching and instructing at squadron and wing level; public affairs assistance in media, and internal communications; and presenting programs to schools, civic groups and other interested organizations.

Reservists used paid mandays to support CAP's programs which included cadet officer school, national staff college, aerospace education leadership development, international air cadet exchange, summer encampments and various search and rescue/civil defense activities.

Reservists can also be found helping CAP members develop recruiting and retention programs; formulating operation, emergency and communications training plans; and assisting both CAP and active-duty USAF-CAP liaison personnel in evaluating and inspecting various elements of the CAP program.

The RAP is organized in a military structure that parallels the active-duty USAF-CAP liaison force. There are eight regions and 52 wings within the eight regions.

Each region is headed by a Region Reserve Commander, usually in the grade of lieutenant colonel or colonel. The Region Reserve Commander is responsible for the overall operation of the CAP-RAP in his respective region. A Reserve Assistance Coordinator is responsible for the operation of the CAP-RAP in his or her respective wing. Each wing has reserve assistance officers/NCOs to assist at all levels of the operations.

Region and wing positions are kept at a minimum in order to provide a maximum number of reservists possible at the squadron or grass roots level of the CAP program where experience indicates that reservists are most needed and effective.

Personnel support and records maintenance support is provided by the 9004th Air Reserve Squadron (CAP), at the Air Reserve Personnel Center in Denver, Colorado. However, manning and training are the responsibility of the Region Reserve Commanders and Wing Reserve Assistance Coordinators.



**Officials Briefed.** Secretary of the Air Force Verne Orr and other key Air Force leaders met at the Pentagon in December with officials from the Civil Air Patrol National Headquarters to receive a briefing on Civil Air Patrol and to discuss the missions and future goals of CAP. Seated at the table are, from left: Brig Gen David L. Patton, CAP-USAF Commander and CAP Executive Director; Maj Gen Richard Bodycombe, Chief of the Air Force Reserve and Commander of Headquarters Air Force Reserve; General Robert C. Mathis, Vice Chief of Staff of the Air Force; Tidal W. McCoy, Assistant Secretary of the Air Force for Manpower, Reserve Affairs and Installations; Verne Orr, Secretary of the Air Force; George P.A. Forscher, Deputy Assistant Secretary of the Air Force for Reserve Affairs; Maj Gen Herbert L. Emanuel, Assistant Deputy Chief of Staff for Manpower and Personnel; and Brig Gen (retired) Carl S. Miller, CAP National Administrator representing CAP Brig Gen Johnnie Boyd, CAP National Commander.

### DOD EXCESS PROPERTY

Civil Air Patrol is authorized by Public Law 557 to acquire equipment and supplies that are excess to the needs of the DOD. Property acquired during 1981 included aircraft, vehicles, communications equipment, office equipment, and other property with an original cost to DOD of \$6,157,626.91. Restoration of aircraft and vehicles to a safe operating condition and modification of aircraft to meet FAA airworthiness standards require the expenditure of the limited funds of the Civil Air Patrol Corporation. DOD agencies identified 26 excess aircraft for transfer to CAP during 1981 as compared to 37 in 1980.

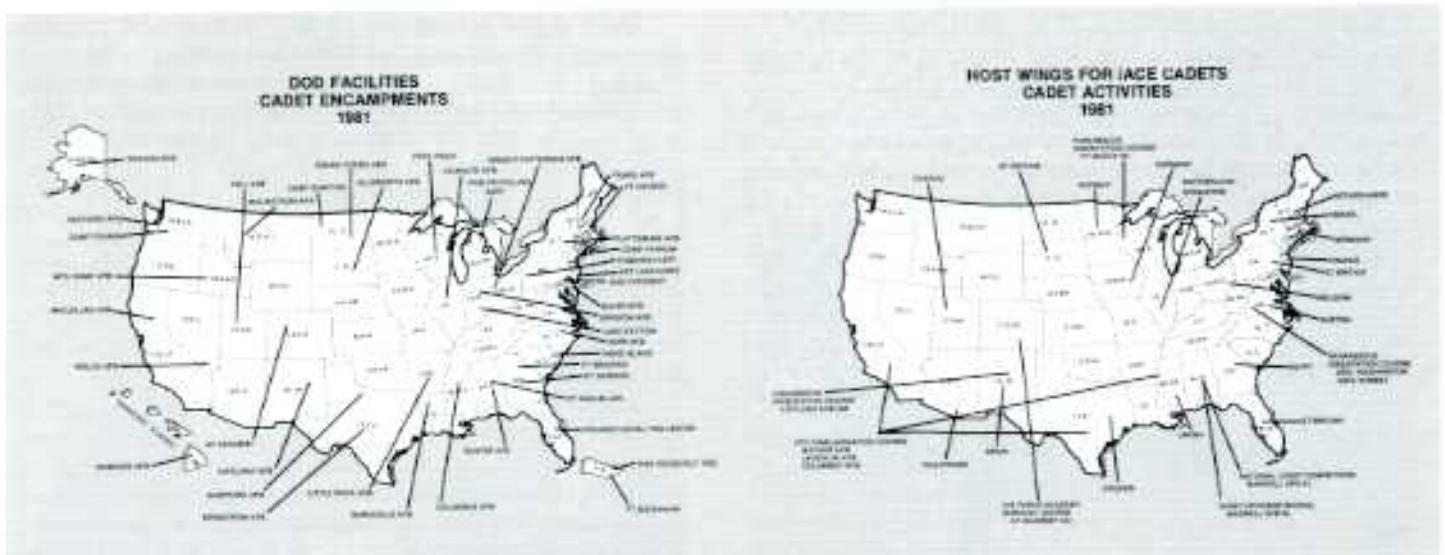
### OCCUPANCY OF DOD FACILITIES

The use of Department of Defense (DOD) facilities gives some financial relief to Civil Air Patrol units. CAP units occupy approximately 314,000 square feet of DOD building and office space at 104 locations. This accom-

modates less than 15 percent of the Civil Air Patrol units that require better facilities. The reduction in the number of DOD facilities even further limits the availability of such facilities for CAP use.

### CAP SUPPLY DEPOT

CAP operates a supply depot at Amarillo, Texas, to obtain, store, and ship aircraft parts to individual wings. All transportation and handling charges are paid by the users of this service. Spare parts are provided for the 588 CAP corporate-owned aircraft, consisting of 42 different makes and models. Parts for the DOD excess and CAP-acquired, civilian-type aircraft are usually unavailable from other sources. Excess DOD aircraft spare parts are not provided to CAP members for use on privately owned aircraft, but the depot does sell vendor-acquired spares to individual CAP members for use on their own aircraft.



## ASSOCIATION WITH OTHER ORGANIZATIONS

The success of most volunteer organizations is achieved through the dedication of members who contribute their time, talents, and resources in support of worthwhile causes. Separate organizations also work together in support of common objectives. Civil Air Patrol is associated with other local, national, and international organizations in areas of mutual interest.

**American Legion.** The American Legion and Civil Air Patrol have a common commitment in aerospace education and youth development and have cooperated in these areas of interest since 1950. The Legion urges its post commanders to contact counterparts in local CAP squadrons and discuss means for further cooperation at the grassroots level.

**Air Force Association (AFA).** The AFA has been a strong supporter of Civil Air Patrol in all three of its basic missions at the national and local levels. AFA actively participates in the annual National Congress on Aerospace Education and presents a special AFA award to CAP's Cadet of the Year during the CAP National Board Meeting each year.



**Top Cadet.** Civil Air Patrol Cadet of the Year Alan P. Dickinson was presented a special Air Force Association (AFA) award during the 1981 CAP National Board meeting in New Orleans. The presentation was made by AFA Executive Director Russell E. Dougherty (right) and AFA Chairman of the Board Daniel Callahan. Dougherty is a retired Air Force General and Callahan is a retired Air Force Major General. Cadet Dickinson is a member of Michigan's Five Point Composite Squadron and has progressed through the entire CAP cadet program since joining CAP in 1975. Dickinson received a \$1,000 CAP scholarship in recognition of his selection as CAP Cadet of the Year.



**Airline of the Year.** CAP Colonel Bob Rubens, Vice President of Republic Airlines (left) and Daniel F. May, President of Republic Airlines (center) accepted an award from CAP Legal Counsel Tom Handley which designated Republic Airlines as Civil Air Patrol's Airline of the Year for 1982 in recognition of Republic's outstanding public service. (Photo courtesy of Republic Airlines)

**Republic Airlines.** In recognition of Civil Air Patrol's contribution to promoting air travel and general aviation, Republic Airlines initiated a special discount fare for active CAP members in early 1981. This has been especially helpful in defraying out-of-pocket costs of CAP members who frequently travel at their own expense. Since Republic serves more than 200 U.S. cities, the special fares have greatly enhanced CAP member participation in CAP activities throughout the nation.

**Order of Daedalians.** This multi-service fraternal organization of military pilots supports CAP in financial contributions and local squadron activities and solo and private scholarships on both the local and national levels. National Headquarters, CAP, recipients of \$1,000 scholarships in 1981 were Alan B. Berry, Georgia Wing; and Cristove Dosev, Illinois Wing. The scholarships were used for ground and flight training toward an FAA private pilot certificate.

**Optimist International.** The Optimist International urges Optimist Clubs to extend and enrich their service to their communities by sponsoring CAP cadet squadrons. Optimist Clubs throughout the country sponsor Civil Air Patrol cadet units.

**Volunteers of America (VOA).** Civil Air Patrol and the Volunteers of America developed a mutual assistance agreement in 1980 to insure close cooperation between the two organizations in their common mission of emergency services. The agreement outlines principles of cooperation to provide maximum assistance to victims and workers in disaster and emergency situations and to insure that the maximum potential of both organizations will be realized.

**Federal Aviation Administration (FAA).** The FAA strongly supports CAP's aerospace education effort by serving with CAP and NASA as cosponsor of the National Congress on Aerospace Education. The FAA Orientation Course for CAP cadets is conducted annually at Will Rogers World Airport in Oklahoma City and FAA-sponsored flight clinics conducted throughout the country are well attended by CAP pilots.

**National Aeronautics and Space Administration (NASA).** NASA supports CAP's aerospace education efforts in many ways. The annual National Congress on Aerospace Education is cosponsored by NASA along with CAP and FAA.

**Federal Emergency Management Agency (FEMA).** FEMA was established in 1979 to merge closely allied federal programs involved with preparedness, mitigations, and response to national emergencies ranging from natural and manmade disasters to nuclear attack. In November 1981, a new Memorandum of Understanding was implemented between CAP and FEMA to promote mutual program support and coordination through specific points of contact at the various levels of both organizations. FEMA has ten regional offices that coordinate emergency services activities with various state and local governments. CAP wings, in turn, have developed numerous agreements with state and local governments making CAP support available during emergencies.



**Optimist Assist.** Jay Cozad (left) President of the Albuquerque North Valley Optimists presented a check for \$500 to Lynn Looney, commander of New Mexico's Black Sheep Composite Squadron. The money will be used to support cadet training in the squadron. Optimists Ed Moore and John Boland are in background. (Photo by Morgan McLaughlin)

**Federal Communications Commission (FCC).** The FCC has been extremely helpful in providing guidance on its rules and regulations and in assisting CAP in its efforts to improve its communications program. Mr. Robert McNamara of the FCC Rules Division and Mr. Marcus Stevens of the FCC Licensing Division have assisted by providing technical and administrative guidance.

**United States Coast Guard Auxiliary.** The USCG Auxiliary is a national, voluntary, non-profit, non-military organization dedicated to promoting safe boating through authorized activities and assisting the United States Coast Guard. Since both the Civil Air Patrol and the USCG Auxiliary share many common interests, and some individuals are members of both organizations, preliminary steps are being taken to establish a closer relationship between the two volunteer groups.



**Agreement Completed.** CAP National Commander Johnnie Boyd signs a "Memorandum of Understanding" between Civil Air Patrol and the Federal Emergency Management Agency (FEMA). The agreement was also signed by CAP-USAF Commander David L. Patton in his capacity as CAP Executive Director and by FEMA Director Louis O. Giuffrida. FEMA, as the successor to the Defense Civil Preparedness Agency, is the federal bureau which serves as the single point of management for civil defense planning and disaster relief activities of the federal government. The agreement provides for cooperation between CAP and FEMA in a number of areas at both national and regional level.



**Bowl-A-Thon.** CAP Captain Jo Ann Hyman helps Kristen Conner bowl in an event to raise funds for victims of Muscular Dystrophy. Jo Ann and other Rhode Island CAP members assisted in conducting the activity sponsored by TV-12 in East Providence.

**Veterans of Foreign Wars (VFW).** The VFW continues to recognize the common interests between CAP and VFW and urges VFW units throughout the country to maintain and strengthen their ties with local Civil Air Patrol units.

**Salvation Army.** The Salvation Army is chartered by Congress and charged in the Federal Disaster Relief Act of 1970 with responsibility to assist persons in need as a result of disaster emergencies. Emergency services is also a mission of Civil Air Patrol and to help insure that the maximum potential of both organizations to assist persons in need will be realized, a statement of cooperation between the Salvation Army and CAP was adopted in 1973. There has since been a continuing development of this worthwhile association.

**National Association for Search and Rescue (NASAR).** NASAR is a national, nonprofit association that promotes and supports search and rescue and provides a public forum for cooperation between state, federal, local, and private search and rescue groups. Lt Col James Bigelow of the CAP California Wing represents Civil Air Patrol on the NASAR Board of Directors.

**Air Cadet League of Canada (ACLIC).** Through its involvement in the International Air Cadet Exchange (IACE) program over the past 33 years, Civil Air Patrol has established good working relationships with similar organizations in many countries. The IACE was conceived and initiated by the Air Cadet League of Canada in 1947, and an especially close relationship has developed between CAP and the ACLIC since the first exchange between the two organizations in 1948.



**Survival Training.** CAP cadets attending the Air Force Academy Survival School discuss the parachute flare emergency signaling device on display at the Academy Survival Museum. They were among the 47 cadets from across the nation attending annual course. The cadets were taught life sustaining techniques including shelter preparation, food acquisition, firecraft, and land navigation. (Photo by Bill Madsen)



**Safety Reminder.** Cadet Sean McEwan of California's George AFB Composite Squadron presents safety material and reminds motorists on George AFB to use their safety belts. CAP cadets conducted the safety program at the request of Air Force safety officials for the second time in recent months.

**American Red Cross.** Civil Air Patrol has an emergency services mission to assist the Air Force in fulfilling its responsibilities for natural disaster relief operations while the American Red Cross is assigned responsibility by the Federal Disaster Relief Act of 1970 to assist persons in need as a result of disaster emergencies. Because of this common mission, the two organizations have developed a close working relationship that is formalized by a mutual support agreement extending to local CAP squadrons and Red Cross chapters.



**Flight Scholarship.** Kathryn Chaussee of Michigan's Westland Cadet Squadron was awarded a flight scholarship by the Michigan "99's," an organization of women pilots founded by Amelia Earhart. The award will enable her to attend the wing's solo flight encampment.

# NATIONAL EXECUTIVE COMMITTEE

(As of 31 December 1981)

Brig General Johnnie Boyd, CAP  
 Brig General David L. Patton, USAF  
 Colonel Howard L. Brookfield, CAP  
 Brig General William C. Whelen, CAP  
 Colonel Harvey R. Klein, CAP  
 Colonel Edgar M. Bailey, CAP  
 Colonel Eugene E. Harwell, CAP  
 Colonel Russell A. Sheibels, CAP  
 Colonel L. H. McCormack, CAP  
 Colonel William B. Cass, CAP  
 Colonel Sammie V. Pierce, CAP  
 Colonel Larry D. Miller, CAP  
 Colonel Bobbie J. Girard, CAP

National Commander  
 Executive Director  
 National Vice Commander  
 National Finance Officer  
 National Legal Officer  
 Northeast Region  
 Middle East Region  
 Great Lakes Region  
 Southeast Region  
 North Central Region  
 Southwest Region  
 Rocky Mountain Region  
 Pacific Region

## National Controller

Colonel Louisa S. Morse, CAP

## Corporate Legal Counsel

Thomas A. Handley

## National Administrator

Brig General Carl S. Miller, USAF, (Retired)

## CAP WING COMMANDERS

AL Lt Col Robert M. Dorning, CAP  
 AK Col Russell J. Anderson, CAP  
 AZ Col Henry M. Rood, CAP  
 AR Col David L. Guthridge, CAP  
 CA Col Edwin W. Lewis, Jr., CAP  
 CO Col Henry A. Elgin, Jr., CAP  
 CT Col Kenneth D. Faust, CAP  
 DE Col James W. Keener, CAP  
 FL Lt Col Howard R. Cumler, CAP  
 GA Col Phillip T. McLendon, CAP  
 HI Col John H. Felix, CAP  
 ID Col Keith L. Lysinger, CAP  
 IL Col Donald I. Reed, CAP  
 IN Col Edwin Des Lauriers, CAP  
 IA Lt Col Evan R. Winters, CAP  
 KS Col Jerome L. Hanson, CAP  
 KY Col Nathaniel L. Tucker, CAP  
 LA Col George Sartis, CAP  
 ME Col Joseph R. Melrose, CAP  
 MD Col Daniel J. Hill, CAP  
 MA Col Renzo Giromini, CAP  
 MI Col Robert W. Paulson, CAP  
 MN Col Lorraine V. Timmerman, CAP  
 MS Col Rodney I. Baker, CAP  
 MO Lt Col Gerald S. Holliday, CAP  
 MT Col Russell L. Sartain, CAP

NCAP Col Ronald A. Quander, CAP  
 NE Col William B. Woodruff, CAP  
 NV Col W. Vernon Bolt, Jr., CAP  
 NH Col Kenneth C. Jameson, CAP  
 NJ Col George S. Bochenek, CAP  
 NM Col Lloyd A. Sallee, CAP  
 NY Col Roy I. Arroll, CAP  
 NC Lt Col Thomas L. Wallace, CAP  
 ND Col David E. Wachal, CAP  
 OH Col Marjorie J. Swain, CAP  
 OK Lt Col David M. Pangrac, CAP  
 OR Col John W. Kenner, CAP  
 PA Col A. A. Milano, CAP  
 PR Lt Col John J. Gonzalez, CAP  
 RI Col Raymond G. Berger, CAP  
 SC Lt Col William E. Hobson, CAP  
 SD Col Harold K. Lindseth, CAP  
 TN Col William C. Tallent, CAP  
 TX Lt Col George R. Way, CAP  
 UT Col Ralph F. Findlay, CAP  
 VT Col John M. Bertoli, CAP  
 VA Col Floyd B. Calihan, CAP  
 WA Col Theodore A. Tax, CAP  
 WV Lt Col John P. Ratcliff, CAP  
 WI Col Leonard R. Wasyluk, CAP  
 WY Col Albert D. Lamb, CAP

## STATE SUPPORT

Forty-two states appropriated funds to support their respective Civil Air Patrol Wings for Fiscal Year 1982. The total provided amounted to \$2,537,027. This recognition and support of Civil Air Patrol by state governments is greatly needed and appreciated.

WING	AMOUNT	WING	AMOUNT	WING	AMOUNT	WING	AMOUNT
Alabama	\$ 29,100	Hawaii	\$100,000	Nebraska	\$ 29,880	Rhode Island	\$ 11,250
Alaska	772,341	Illinois	153,500	Nevada	30,000	South Carolina	81,576
Arizona	75,000	Kansas	4,000	New Hampshire	23,818	South Dakota	18,000
Arkansas	38,000	Kentucky	15,000	New Mexico	59,500	Tennessee	40,000
California	87,000	Louisiana	75,000	New York	90,000	Texas	41,800
Colorado	96,888	Maine	5,000	North Carolina	77,000	Utah	22,000
Connecticut	13,000	Maryland	27,500	North Dakota	46,749	Vermont	10,000
Delaware	5,000	Minnesota	32,500	Ohio	4,000	Virginia	40,000
Florida	50,000	Mississippi	20,000	Oklahoma	25,000	Washington	10,225
Georgia	40,000	Missouri	10,000	Pennsylvania	100,000	West Virginia	89,000
				Puerto Rico	30,000	Wyoming	8,400

## TEN YEARS IN REVIEW

Year	No. Wings	Amount	Year	No. Wings	Amount
1972	31	\$ 889,295	1977	34	\$1,391,013
1973	33	1,088,078	1978	35	1,652,198
1974	33	1,094,566	1979	38	1,823,572
1975	32	1,230,737	1980	39	2,200,623
1976	33	1,391,494	1981	42	2,537,027

# STATISTICAL SUMMARY

Vital Statistics 31 December 1981

	1980	1981		1980	1981
<b>MEMBERSHIP</b>			<b>AIRCRAFT</b>		
Cadets	22,721	23,020	Corporate Owned	605	588
Seniors	36,591	37,668	Member Owned	7,570	8,223
Total Members	59,312	60,688	Total Aircraft	8,175	8,811
<b>ORGANIZATIONAL UNITS</b>			<b>EMERGENCY SERVICES</b>		
Regions	8	8	Missions	1,175	1,160
Wings	52	52	Sorties	7,320	8,567
Groups	185	185	Hours Flown	14,424	17,878
Senior Squadrons	241	242	Objectives Located (Finds)	649	660
Cadet Squadrons	366	356	Lives Saved (Saves)	115	77
Composite Squadrons	943	931	<b>ENCAMPMENTS</b>		
Flights	88	85	Active Air Force Bases	28	26
Total Units	1,883	1,859	Other DOD Facilities	18	30
<b>RADIO STATIONS</b>			Non-DOD Facilities	28	26
Fixed Land	4,068	4,084	Cadets Attending	5,263	5,422
Ground Mobile	15,340	15,225	Seniors Participating	865	989
Air Mobile	3,505	4,095	<b>CADET AWARDS</b>		
Citizen Band	2,988	860	Mitchell Awards	1,180	1,181
Search and Rescue	688	675	Earhart Awards	343	444
Corporate Aeronautical	605	605	Spatz Awards	26	25
Repeater Stations	187	215			
Emergency Locator	87	139			
Total Stations	27,468	25,898			

## WING PARTICIPATION IN EMERGENCY SERVICES 1 January 1981 through 31 December 1981

The table below shows Civil Air Patrol participation in USAF authorized search and rescue operations, disaster relief, and other emergency services missions. Thousands of additional hours are spent on state and local support activities that are not reported. During 1981 Civil Air Patrol was credited with 660 finds and 77 saves. Twenty-seven of the saves were credited jointly to CAP wings and other rescue organizations. Total missions, finds, and saves will not add correctly below because, in some instances, more than one CAP wing was involved. ("Finds" are search objectives located and "Saves" are lives saved.)

	Missions	Sorties	Hours	Finds	Saves	
					CAP	Joint
Alabama	13	79	191	3	0	0
Alaska	97	727	1844	38	9	1
Arizona	38	174	450	20	3	0
Arkansas	19	310	636	7	0	0
California	127	1478	2533	98	0	1
Colorado	51	594	1160	26	1	12
Connecticut	3	6	15	2	0	0
Delaware	1	2	6	1	0	0
Florida	54	238	434	47	1	0
Georgia	23	99	185	10	1	0
Hawaii	5	15	34	0	0	0
Idaho	13	20	40	9	0	8
Illinois	24	95	185	16	0	0
Indiana	20	63	172	12	0	0
Iowa	5	40	85	1	0	0
Kansas	24	40	57	6	6	0
Kentucky	15	133	320	4	0	0
Louisiana	35	77	131	28	0	0
Maine	3	14	35	2	0	0
Maryland	9	76	186	1	0	0
Massachusetts	13	33	61	7	0	0
Michigan	28	48	82	12	0	1
Minnesota	20	139	352	15	0	0
Mississippi	15	61	119	5	0	0
Missouri	17	104	214	8	0	0
Montana	4	3	5	0	2	0
National Capital	1	3	6	0	0	0
Nebraska	9	70	163	6	0	0
Nevada	34	298	677	16	0	0
New Hampshire	9	17	36	4	0	0
New Jersey	10	23	37	4	0	0
New Mexico	55	160	264	12	6	7
New York	22	96	206	12	0	0
North Carolina	29	244	546	13	3	0
North Dakota	15	33	81	4	0	0
Ohio	26	26	56	19	1	0
Oklahoma	20	199	449	13	0	0
Oregon	40	195	406	16	1	0
Pennsylvania	24	176	331	12	0	0
Puerto Rico	8	23	66	0	0	0
Rhode Island	0	0	0	0	0	0
South Carolina	14	60	174	6	0	0
South Dakota	12	76	196	6	6	0
Tennessee	23	180	310	12	0	0
Texas	63	457	1094	39	2	1
Utah	37	546	1326	18	7	0
Vermont	5	12	16	3	0	0
Virginia	22	217	398	13	0	0
Washington	83	470	708	44	0	0
West Virginia	17	112	385	4	0	0
Wisconsin	13	68	161	4	1	0
Wyoming	18	138	254	5	0	0
<b>National Totals</b>	<b>1160</b>	<b>8567</b>	<b>17,878</b>	<b>660</b>	<b>50</b>	<b>27</b>

# RECOGNITION OF EXCELLENCE

## UNIT RECOGNITION

**Squadron of Distinction.** The Southern Erie Composite Squadron of the New York Wing was selected as the Civil Air Patrol Squadron of Distinction. The award was based on the unit's overall accomplishments from 1 July 1980 through 30 June 1981 as well as favorable recognition by its wing and region commanders. Captain Gordon C. Evans, commander of the squadron, received the F. Ward Rully Leadership Award in recognition of his outstanding work with the unit.

**Squadrons of Merit.** The following runners-up to the Squadron of Distinction were designated as Squadrons of Merit:

- (1) Housatonic Composite Squadron, Illinois Wing
- (2) Golden Triangle Composite Squadron, Mississippi Wing
- (3) Raritan Valley Composite Squadron, New Jersey Wing
- (4) Malheur Composite Squadron, California Wing

**Top 8 of the 80's.** The following wings were the top performers in each region under the criteria of the Civil Air Patrol-Management Analysis Program (CAP-MAP):

- |                                |                                  |
|--------------------------------|----------------------------------|
| Connecticut — Northeast Region | Missouri — North Central Region  |
| Virginia — Middle East Region  | Louisiana — Southwest Region     |
| Illinois — Great Lakes Region  | Colorado — Rocky Mountain Region |
| Tennessee — Southeast Region   | Washington — Pacific Region      |

## INDIVIDUAL RECOGNITION

**Cadet of the Year.** Cadet Alan P. Dickinson, Michigan Wing  
**Senior Member of the Year.** Lt Col William D. Masben, HQ Rocky Mountain Region

### Brewer Aerospace Memorial Awards

**Cadet Category.** Cadet Paul Harris, Michigan Wing  
**Senior Category.** Lt Col Lon A. Alap, Oregon Wing  
**Individual Category.** Mr. William C. Hinkley, Denver, Colorado  
**Organization Category.** Indiana Aerospace Education Council, Dr. Kenneth Pascher  
**Special Aerospace Award.** Dr. Meryn McLaughlin

**General Carl A. Spaatz Award Winners.** The following cadets are recognized for successfully completing all phases of the structured Civil Air Patrol Cadet Program.

#### Alabama

Lon J. Erickson, (No. 372), Mobile Composite Sq., P.O. Box 68014, Mobile, AL 36606

#### California

Paul C. Starr, (No. 581), Pacifica Cadet Sq., P.O. Box 3461, Pacifica, CA 94044

James B. Seisnietz, (No. 566), Saddleback Composite Sq., #68, 6702 Forest St., Cypress, CA 90630



**Highest Award.** Cadet Peter Bampton of Virginia's Southside Composite Squadron was presented the General Carl A. Spaatz Award by U.S. Senator Harry F. Byrd, Jr., of Virginia. The award signifies that Peter has completed all phases of the CAP Cadet Program. Bampton is a student at Virginia Military Institution.



**Top Squadron.** The 1981 Squadron of Distinction Award to New York's Southern Erie Composite Squadron was accepted by the squadron's commander Gordon C. Evans. The award and accompanying check for \$500 were presented by CAP National Commander Johnnie Boyd (left) and National Vice Commander Howard Brookfield during the CAP National Board Meeting in New Orleans.

#### Illinois

Daniel J. Marzalek, (No. 375), Cherokee Composite Sq., 339 Chicago Ave., Downer Grove, IL 60515

#### Indiana

David M. Finkel, (No. 565), Shelbyville Composite Sq., P.O. Box 841, Shelbyville, IN 46176

#### Maryland

Mark Kukula, (No. 569), Chesapeake Composite Sq., 2800 Palau Hwy, Baltimore MD 21224

**Processing In.** Celeste Peletz from Hawaii and Michael Binning from California complete necessary paperwork while processing in for the Cadet Officer's School held at Maxwell AFB, Alabama, during July. The annual ten-day course prepares cadets for expanded duties and responsibilities in the CAP Cadet Program. (Photo by Leonard Wood)



#### Michigan

Michael S. Davies, (No. 374), Utica-Sterling Cadet Sq., 11952 Delvin, Sterling Hts, MI 48079  
Robert C. Hazy, Jr., (No. 586), Michigan Wing Headquarters, 9505 Groh Bldg. 34, Grosse Ile, MI 48138

Jude Janowski, (No. 588), Bay City Composite, 905 E. Florence, Bay City, MI 48706

Dominic A. Strug, (No. 573), Utica-Sterling Cadet Sq., 11952 Delvin, Sterling Hts, MI 48079  
Robert M. Surman, (No. 183), Michigan Wing Headquarters, 9505 Groh Bldg 34, Grosse Ile, MI 48138

#### New York

Alycia W. Granville, Jr., (No. 579), Orangeburg Cadet Sq., N.Y.S. Armory, Orangeburg, NY 12062

Frederick M. Kozmowski, (No. 568), LJC Robert S. VanKeuren Cadet Sq., Box 434, Eastwood Station, Syracuse, NY 13206

James T. McKenag, (No. 568), LJC Robert S. VanKeuren Cadet Sq., Box 434, Eastwood Station, Syracuse, NY 13206

Randy J. Prysak, (No. 577), Rome Composite Sq., Bldg 100, Griffiss AFB, NY 13441

#### North Carolina

Michael L. Kiddle, (No. 567), Raleigh-Wake Composite Sq., 1326 Marshall St., Raleigh, NC 27604

#### Ohio

John T. Ryer, (No. 184), Warren Composite Sq., 304, CAP WPAFB, Vienna, OH 44475

#### Pennsylvania

Steven H. Rickart, (No. 583), NAS Wilcox Grove Composite Sq., 301 Prospect Ave., Hirscham, PA 19344

Richard C. Yingling, (No. 570), Penn State University Composite Sq., #307, RD 1, Box 260, Penn State, PA 16870

#### Tennessee

Bruce C. Reed, (No. 182), Columbia Composite Sq., P.O. Box 215, Searsmontown, TN 38483

#### Vermont

Richard J. Higgins, (No. 576), Rutland Composite Sq., Rutland, VT 05701

#### Virginia

Matthew W. Hampton, (No. 587), Southside Composite Sq., 3009 Waddington Dr., Richmond, VA 23224

Peter M. P. Hampton, (No. 571), Southside Composite Sq., 3009 Waddington Dr., Richmond, VA 23224

Frank E. Schaefer, (No. 564), Henrico Composite Sq., P.O. Box 461, Herndon, VA 22071

#### Wisconsin

Steven J. Schmidt, (No. 578), Milwaukee Composite Sq. #5, P.O. Box 21877, Milwaukee, WI 43211

**IACE Cadets.** Cadets Elaine Rosenthal (left) and Joan Nacino were among the 138 CAP cadets participating in the 1981 International Air Cadet Exchange program.



**Photo Lab.** Cadets Robert Pitts (right) and Thomas Fenton of Connecticut's Stratford Eagles Composite Squadron train in the process of enlarging and developing a photographic print before attempting the real thing in the squadron's darkroom. (Photo by Konstantine Rychalsky)

**Top Award.** Cadet James R. Elliott received the General Carl A. Spaatz Award from U.S. Senator Harrison Schmitt of New Mexico in a special ceremony at Kirtland AFB, New Mexico. The award signifies that James has completed all the requirements of the Civil Air Patrol Cadet Program.



**Scholarship Winners.** Civil Air Patrol scholarships valued at \$25,500 for academic year 1981-1982 were awarded to 50 of CAP's outstanding young men and women who are attending colleges and universities across the country.

<b>ALABAMA</b>	<b>INDIANA</b>	<b>NORTH CAROLINA</b>
Thurman Robertson	Peter Conter	Robert Powell
<b>CALIFORNIA</b>	John Mansfield	Michael Riddle
Edward Lee	John Moorman	Richard Wilson
<b>COLORADO</b>	Thomas Sulliff	<b>OHIO</b>
John Whitson	<b>LOUISIANA</b>	Kenneth Beale
<b>DELAWARE</b>	Robert Bradford	James Raley
Christopher Coleman	<b>MARYLAND</b>	Paul Sekota
Sean Liedlich	Mark Katsika	<b>OKLAHOMA</b>
Drew Longo	<b>MICHIGAN</b>	Eric Vander Linden
<b>FLORIDA</b>	Alan P. Dickson	Audrey Weisbrook
Stephen Hamel	<b>MINNESOTA</b>	<b>PUERTO RICO</b>
Douglas Seta	Brian Brunst	Kevin Christian
<b>GEORGIA</b>	David Marshall	Alfonso Hodge
Alan Berry	<b>NEBRASKA</b>	<b>TENNESSEE</b>
<b>GREAT LAKES REGION</b>	Lisa Strong	Donald Clark
Esther Roberto	<b>NEW HAMPSHIRE</b>	<b>TEXAS</b>
<b>ILLINOIS</b>	Patricia Clark	Steven Kipp
Jeffrey Haak	<b>NEW YORK</b>	James Reynolds
Daniel Marszalek	Philip Jones	<b>VIRGINIA</b>
Maryann Mrowka	Robert Kantor	Robert Collins
Joe Signoroff	James Koscicki	Patricia Senn
Robert Thomas	Sharon Koehn	Paul Wilkinson
Vadav Ujak	James Nickerson	<b>WISCONSIN</b>
		Kurt Wipperfunk

**Georgia OJT.** Cadet Donald Cooper of Georgia's LaGrange Composite Squadron received on-the-job training in the emergency room at the Eisenhower Army Medical Center, Fort Gordon, Georgia. Donald was one of twelve Georgia Wing cadets selected to participate in a special on-the-job training program sponsored by the Eisenhower Medical Center, Georgia Air National Guard, Moody AFB, Georgia; and Fort Stewart, Georgia. (U.S. Army Photo)



**Spatz Award.** Air Force Academy Cadet Tim Hawes was presented the CAP General Carl A. Spatz Award by Brig Gen R. D. Beckel, Commandant of Cadets at the Academy. The award was in recognition of Tim's accomplishments as a cadet member of Pennsylvania's Coatsville Composite Squadron. Tim credits his experience as a CAP cadet for arousing his interest in an aviation career.



**First Aid.** Cadets Mat Carson (left) and Robert Pepper place splints on William Smith's leg during a first aid course at Mather AFB for members of the newly formed California Wing Foothills Flight 85. (Photo by Kayla McRill)



**Flight Preparation.** Cadet Sevan Moushjian of the National Capital Wing's Wheaton Silver Springs Cadet Squadron is fitted with a flight helmet as she prepares for a flight in a T-37 jet trainer aircraft. Sevan earned the orientation flight by being selected as outstanding cadet at the wing's cadet encampment.

**Gil Robb Wilson Award.** This is the highest award attainable in the Senior Member Training Program. In addition to earning the Paul E. Garber Award and completing three years in a CAP command or staff position, recipients of the Gil Robb Wilson Award must have successfully completed the USAF Air War College Correspondence Course conducted by Air University, Maxwell AFB, AL. Gil Robb Wilson Awards were earned by the following CAP senior members during 1981:

**ALABAMA**

William R. Brown, 9400

**CALIFORNIA**

Stefan M. Tamm, 04103

**OHIO**

David Lee Hickenbottom, 34001

**OKLAHOMA**

Sandra V. Pierce, 6000  
Stewart Glusick, 35001



**Academy Appointment.** Cadet Jay J. Warwick of Florida's St. Johns River Composite Squadron was presented CAP's General Carl A. Spaatz Award by U.S. Representative William "Bill" Chappell. Jay was the recipient of former Vice President Mondale's nomination and appointment to the U.S. Air Force Academy and entered basic training at the Colorado Springs facility in June.

**Civil Air Patrol Hall of Honor.** The Civil Air Patrol Hall of Honor, located in the U.S. Air Force Museum at Wright-Patterson Air Force Base, Dayton, Ohio, was dedicated in May 1974. The display pays tribute to leaders who were instrumental in establishing the organization and in its development over the years. The following individuals have been inducted into the Hall of Honor. (Date and title of induction)

- \* Gil Robb Wilson - 1972
- \* Carl A. Spaatz - 1972
- D. Harold Bird - 1972
- William C. Whelan - 1972
- \* Paul W. Turner - 1972
- Lyle W. Castle - 1972
- \* F. Ward Rolly - 1972
- Clara E. Livingston - 1972
- Joseph S. Bergin - 1972
- Alan C. Penkinson - 1972
- Lucas V. Beau - 1973
- Edwin Lyons - 1973
- \* Earle L. Johnson - 1974
- S. Hallock duPont, Jr. - 1974
- James F. Carter - 1974
- William M. Patterson - 1974
- Zack T. Minsley - 1976
- \* Robert H. Herweh - 1979
- Mervin K. Strickler - 1979
- Thorton C. Casaday - 1980

\* Deceased

**Methanol Power.** Former astronaut Gordon Cooper poses with Cadet Eric Jenkins of the CAP National Capital Wing near the Super Cub which Cooper helped pilot across the country, using only alcohol as fuel. CAP cadets provided security for the aircraft while it was on display in front of the Capitol in Washington.



**Double Award.** Cadets Mark Cantrell (left) and Clint Venekamp posed with Oregon Governor Victor G. Atiyeh following ceremony in which the governor presented their General Carl A. Spaatz Awards. The Spaatz Award represents the highest level of achievement in the CAP Cadet Program.

**Paul E. Garber Award.** This award given in the name of an eminent aviation historian was presented to 74 senior members in recognition of their efforts to further the cause of aerospace.

**ALABAMA**

Jess L. (Grip) Haley, 01001  
Francis B. Jones, 94000  
Joan L. Hill, 94001  
John T. Benson, 94000  
Robert G. Babrsky, 94000  
Bernard S. Schramm, 94000  
William B. Bantz, 94000

**CALIFORNIA**

Ward A. Scharf, 04113  
Shirley M. Tamm, 04103

**COLORADO**

Jack Harbord, 05019

**CONNECTICUTE**

Carol P. Engler, III, 06006

**FLORIDA**

F. E. Harlow, 08013  
David L. Jost, 08032  
James H. Parris, 08344  
Willard W. Davis, 08301  
Michael W. Poppy, 08373

**GEORGIA**

Leslie J. Dineen, 09087  
Robert W. Young, 09087  
Douglas Abernethy, 09087

**HAWAII**

Samuel K. Kekoa, 51001  
Edward Benshoof, 51057  
Abel M. Correa, 51001  
William K. Baker, 51001  
Priscilla C. Baker, 51001

**ILLINOIS**

Michael Rafferty, Jr., 11245  
Edmund C. Berk, 11001  
William D. Rose, 11247

**INDIANA**

John Charles Birch, 12079  
George W. Young, 12001  
Gayle L. Field, 12168

**KANSAS**

Mildred M. Traubner, 14001

**KENTUCKY**

Barry W. Barnette, 15001

**LOUISIANA**

Leslie E. Hopper

**MARYLAND**

Robert James Swanson

**MASSACHUSETTS**

Sandra L. Mink

**MICHIGAN**

Willard Huffaker, Jr., 20001  
Sandra K. Clarke, 20190

**MISSOURI**

Dean Kay Hamilton, 23284

**WASHINGTON D.C.**

Lawrence L. Olson, 25001  
Thomas E. Allen, 25001

**NATIONAL HEADQUARTERS**

Raleigh Chaney, 99100  
Robert Rabson, 99000

**NEBRASKA**

Ever Anna Maria Crowdfell, 26001

**NEW HAMPSHIRE**

George G. Hault

**NEW JERSEY**

Harry J. Valery, 29074  
Abelardo Ruiz, Jr., 29075  
Russell Fred Gilbert, 29084  
Donald Halstead, 29087

**NEW MEXICO**

Dennis P. Kilman, 30012

**NEW YORK**

Alan Pogorzelski, 31118  
Robert Bartles, Jr., 31001  
Milton Haas, 31214

**NORTH CAROLINA**

Leslie G. White, 32001  
Marie Bagrowski, 92000  
Grady Pennington, 92000

**OHIO**

Regis T. Leach, 34041

**OKLAHOMA**

James A. Carter, 35001

**PENNSYLVANIA**

J. Weston Baker, 31202

**SOUTH DAKOTA**

Harold K. Lindbergh, 40001

**TENNESSEE**

Don N. Clark, 41048

**TEXAS**

Lawrence N. Adwell, 42076  
M. A. Biltman, 42076  
Luis Karnowitcher, 42190  
James P. Zoeller, 42076  
Enoch J. Bridges, 42024  
Ralph E. Landry, 42024

**UTAH**

Virginia Smith, 43001

**VIRGINIA**

Barton Paine, Jr., 45001  
John D. Lowman, Sr., 45134

**WASHINGTON**

Elizabeth Pries, 46001  
James Critchfield, 46080

**WISCONSIN**

Albert V. Fera, 48053



**Perplexing Problem.** Cadets attending the Cadet Officer's School at Maxwell AFB, Alabama, were exposed to the problem solving exercise called "Project X." From left, Edward Desocio, Joanna Sobieski, and Tom Frierson work on solution to simulated problems that could arise in survival, escape or counterinsurgency. (Photo by Leonard Wood)



**Japanese CAP.** Japan's Civil Air Patrol members are welcomed to Columbus AFB, Mississippi, by Air Force Major Nick Ardillo, Executive Officer with the 14th Flying Training Wing. The group was escorted by Cadet Mike Westmoreland, left. The visitors included, from right: Takashi Iida, Joji Yamaguchi, and Haruhiko Furushashi.



**Grover Loening Aerospace Award.** This award given in the name of an aviation pioneer was presented to 79 CAP school members during 1981.

<b>ALABAMA</b>	<b>KENTUCKY</b>	<b>OKLAHOMA</b>
Jess L. (Skip) Hickey, 01001	George M. Haddon, 15001	James A. Carter, 11104
Ebert M. Rhodes, Jr., 01005		
Leighton Linnoc, Jr., 01005	<b>LOUISIANA</b>	<b>OREGON</b>
Charles P. Roe, 05098	Lester E. Hopper, 16064	Robert E. Orr, 76017
William R. Bessie, 94000		Charles Thompson, 36007
Bernard Schrammeyer, 94000		
<b>ARIZONA</b>	<b>MARYLAND</b>	<b>PENNSYLVANIA</b>
Larry Hamrah, 01001	Jack B. Briggs, 18011	Helen Zepfenfeld, 37224
	Robert J. Swanson, 18019	Steven J. Schwartz, 37028
	Uwalyne P. Thomas, 18047	Stephen P. Ferris, 37091
<b>CALIFORNIA</b>	<b>MASSACHUSETTS</b>	Edward Kirby, Jr., 37021
Lori A. Brand, 04001	Levin H. Bar, 19065	
John A. Emerson, 04292	Marilynn M. Leffars, 19001	<b>RHODE ISLAND</b>
	Sandra Lee Minsk, 19032	Paul J. Morris, 18001
<b>COLORADO</b>	<b>MICHIGAN</b>	<b>SOUTH DAKOTA</b>
John R. Williams, 05141	Deborah A. Stevens, 20001	Merlin Mates, Jr., 40001
Norman G. Kloos, 05001	Donald F. Tappan, 20000	Mark E. Nozdrzyk, 40001
David C. McGilley, 05001	John F. Price, 20006	Lou M. Schmitt, 40018
Michael R. Foster, 05001		
<b>DELAWARE</b>	<b>MISSOURI</b>	<b>TENNESSEE</b>
Barbara A. Salata, 07011	Dean K. Hamilton, 23088	Pat E. Curran, 41000
	Keith T. Zeiler, 23084	
<b>FLORIDA</b>	<b>NATIONAL HEADQUARTERS</b>	<b>TEXAS</b>
Willard W. Davis, 08301	Robert G. Roberts, 90000	Lois Kaimwacher, 42190
Rosemary Artwick, 08432		B. E. Baumgardner, 42190
Michael W. Popejoy, 08353		C. E. Neal, 42001
Rodney S. Harpe, 08289		R. B. Bessie, Jr., 42151
<b>GEORGIA</b>	<b>NEVADA</b>	<b>VIRGINIA</b>
Harry E. Jones, 09001	Sister Anna-Maria Coverdell, 28001	Donald Gopenfeld, 43124
		Walter E. Spence, 45068
<b>HAWAII</b>	<b>NEW JERSEY</b>	Paul N. Strout, 45001
Horace C. Conway, 51001	Donald Harbott, 29067	
	Mary F. Bennett, 29001	<b>WASHINGTON</b>
<b>ILLINOIS</b>	<b>NEW MEXICO</b>	Ronald Simmons, 46001
Edmund C. Berck, 11001	Kathy A. Kinair, 30012	Jule G. Silva, 46019
Charles E. Lowery, 11275		<b>WEST VIRGINIA</b>
William D. Rose, 11347		Ronnie C. Harmon, 47001
Florence Westholm, 11189		Robert W. Jenkins, 47001
John F. Sullivan, 11284		
<b>INDIANA</b>	<b>NEW YORK</b>	<b>WISCONSIN</b>
Margaret Hornbeck, 12011	Steven B. Gullberg, 31294	Albert V. Elva, 48013
	Robert D. Johnson, 31211	
<b>KANSAS</b>	<b>NORTH CAROLINA</b>	<b>WYOMING</b>
Charles Neuberger, 14001	Louise G. White, 32001	Terry D. Stanberry, 49001
George Mills Boyd, 14001	James S. Wiggs, 32018	
	Gerald Underwood, 32017	

**Cadet School.** Lt Col Phil Simmons (left) reviews the Cadet Officer's School curriculum with Cadet Robert S. Binford of the Louisiana Wing. Simmons is a reserve officer on temporary active duty to serve as commandant of the school. Some 100 cadets from across the nation completed the 10-day course held at Maxwell Air Force Base, Alabama. The purpose of the school is to train and develop cadets for additional and expanded duties and responsibilities.

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Cadets attending the Air Training Command Familiarization Course at Mather AFB, California, visited a maintenance facility at Travis AFB where Air Force technicians were repairing a C-5 jet engine. The cadets responded enthusiastically to the entire ATC sponsored program, but the most exciting phase of the activity continued to be orientation flights in military aircraft. (Photo by Ken Kennedy)

CAP cadets and senior members attending the Rocky Mountain Region joint Cadet Leadership School and Senior Staff College at the Air Force Academy were tested on the academy's Leadership Reaction Course. The course offered twelve different problem solving situations that required the ten-person teams of cadet and senior members to pool their ideas on how to use limited materials to solve each situation, arrive at a course of action decision, and then work as a team to carry it out. . .not always successfully. (Photo by Bill Medsen)





NATIONAL CADET COMPETITION  
MAXWELL AIR FORCE BASE, ALABAMA