8th Anniversary Issue

AIR WEATHER SERVICE

OBSERVER

1937 - A Quarter Century of Military Weather Service - 1962

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AWS Commander Stresses Leadership At NCO Graduation

Speaking on military leadership in the Space Age at the MATS NCO Academy this month, the AWS commander cited know-how as the key aspect of modern leadership and pointed out that "we have not fully learned the employment of nuclear weapons before we are working on masers and lasers."

As graduation speaker for the Orlando AFB, Fla., academy's November class, which included the Commandant's Award winner and another top graduate from AWS, General Peterson underlined challenges of modern leadership to the Air Force scientist in particular.

"Leadership," the general said, "is more than supervision, more than issuance of orders, more than personal courage. It requires you to lead—to be out in front, to point the way and to be followed with enthusiasm, not reluctance."

He reminded his audience that a greater increase in knowledge has occurred in the past 60 years than in any 600-year period in human history. Knowledge, he said has begun "to explode in geometrical progression, increasing as the square rather than as the sum.

Basic Principles

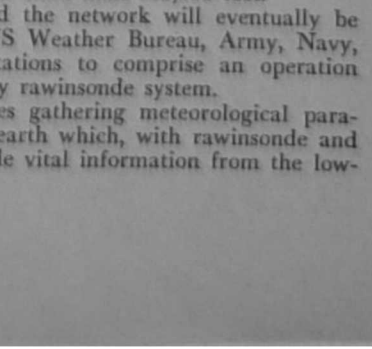
For centuries, in the general's words, military leaders adhered to the same basic principles, with new techniques contributed by Alexander the Great, Julius Caesar, Charlemagne, Napoleon, von Clausewitz and others, and new weapons and capabilities — bow and arrow, gunpowder, cavalry, artillery, automotive vehicles and the airplane.

But suddenly the orderly development and use of new weapons and techniques has vanished, and we have not fully learned the employment of nuclear weapons before we are working on masers and lasers.

Following are additional excerpts from General Peterson's graduation address:

"The element of know-how is, I believe, the key phrase in military leadership today. This Space

(Continued on page 7)



DISPLAYING his leadership potential, TSgt Robert E. Epps, 6th Weather squadron, Tinker AFB, Okla., received the Commandant's award at recent graduation ceremonies of the MATS NCO Academy. (Story on page 3.)

Col. Seaver Dies After Illness

Col. James T. Seaver jr., who served as AWS vice commander from November 1959 to July 1960, died October 27 in Washington, D. C., after a long illness. Burial was in Arlington National Cemetery.

Col. Seaver was assigned to the Pentagon as Assistant for Weather, USAF headquarters prior to his death. He is survived by his wife, the former June Fuller of Long Island, N. Y., and three sons, Jeffrey, 9, John, 17, and James III, 19, who is now on active duty with the Air Force at Keesler AFB, Miss.

Col. Seaver

A native of Mt. Vernon, N. Y., Colonel Seaver graduated from Dartmouth college in June 1938 and worked for Liberty Mutual Insurance Company before joining the service in October 1940. After attending Massachusetts Institute of Technology as a meteorological cadet, he was commissioned a second lieutenant in July 1941.

Progressing to the grade of colonel by July 1945, Colonel Seaver served in Europe with the 8th Air Force for two years and in the Far East with the 20th Air Force for a year before his release from active duty in 1946. For his combat service, he was awarded the Distinguished Flying Cross and the Legion of Merit. He was recalled to active duty in November 1948 from a civilian position as assistant to the vice president of Sales Management, Inc.

AIR FORCE AWARDS are presented by Lt. Gen. Joe W. Kelly (left), MATS commander, to Dr. Robert D. Fletcher (center), Director of Scientific Services, Hq. AWS, and Col. Templeton S. Walker, commander, 9th Weather Reconnaissance group.

Dr. Fletcher & Col. Walker Receive Air Force Awards

Dr. Robert D. Fletcher, Director of Scientific Services, Hq. Air Weather Service, and Col. Templeton S. Walker, commander, 9th Weather Reconnaissance group recently were presented Air Force awards.

Dr. Fletcher, who for 11 years has been Director of Scientific Services, received the award for significant contributions to meteorology and allied sciences.

His citation for this Air Force Decoration for Exceptional Civilian service reads in part: "Dr. Fletcher has displayed the highest qualities of leadership in supervising the technical activities of the Air Weather Service and, through generous application of keen professional knowledge, has contributed greatly to the international advancement of meteorology and related geophysical sciences." The citation is signed by Air Force Secretary Eugene M. Zuckert.

Colonel Walker. received the Legion of Merit for significant contributions to weather reconnaissance and aerial sampling. He served as Test Services Unit commander for recent nuclear tests in the Pacific.

"Under Colonel Walker's exemplary leadership," the citation reads, "weather, rescue, photographic and medical test-support forces were assembled in one-fourth the normal time and 2,664 sorties for 25 atmospheric nuclear tests were launched."

Formerly AWS Director of Air Operations, Colonel Walker is a veteran of 21 years of Air Force service, 16 of them with AWS.

LOADING AN ARCAS meteorological rocket into the launcher are (l to r): TSgt Curtis M. Lord, A1c Gabriel L. Jeffries and A1c Marvin F. Patton all of Det. 10, 4th Weather group, Eglin AFB, Fla.

AWS weather support to Astronaut Walter M. Schirra's Project Mercury flight brought a congratulatory message from the Defense Department representative at Patrick AFB.

Forwarded by Lt. Gen. Joe W. Kelly, MATS commander, to General Peterson, the message said in part, "the teamwork, flawless performance of duty and splendid cooperation in this most noteworthy achievement is something we will all remember with pride. Please convey my heartfelt appreciation to all members of your forces who participated in this significant event."

USAF Network Fires Weather Rockets

November 7, 1962 marked the first simultaneous firings of meteorological rockets by the USAF Rocketsonde network.

Established by 4th Weather group, at the direction of Hq. AWS and USAF, the net is composed of stations at Ft. Churchill, Canada; Eglin AFB, Florida; and Ascension Island in the South Atlantic.

NASA was invited to participate in the program with firings from their active Wallops Island station. They have indicated they will.

The Ft. Churchill site belongs to the Air Force Office of Aerospace Research (AFOAR), while Eglin is an AF Systems Command (AFSC) test center, and Ascension is part of AFSC's Atlantic Missile Range. The 4th Weather group is tasked to support AFOAR and AFSC, the two commands that are engaged in Air Force Research, development, test and evaluation.

Launchings are planned for each Wednesday at 1800Z. The frequency will be increased to two or three launches weekly and more stations will be added by the summer of 1963. It is planned that Antigua B.W.I. and Thule, Greenland will be the next stations added to the USAF network.

The rocketsonde observations are now being transmitted on military and civilian weather circuits in a winds-only code. A new code is being developed for transmission of winds, temperature and density.

The rockets used are ARCAS motors with either ROBIN or ARCASONDE I payloads. These rockets enable meteorologists to determine temperature, density and winds to over 200,000 feet, thus extending the heights obtainable by rawinsonde more than 100,000 feet.

From this beginning, it is hoped the network will eventually be expanded and further linked to US Weather Bureau, Army, Navy, NASA and foreign rocketsonde stations to comprise an operation somewhat similar to the present day rawinsonde system.

Future plans involve rocketsondes gathering meteorological parameters up to 100 miles above the earth which, with rawinsonde and meteorological satellites, will provide vital information from the lowest levels far out into space.

AIR WEATHER SERVICE
OBSERVER

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BRIG. GEN. NORMAN L. PETERSON
Commander, Air Weather Service
MR. JOHN D. RUGG, Director of Information
2ND LT. CASEY R. LUCZAK, Editor

US Air Force — Aerospace Power for Peace

ON THE

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AWS Global Report

Highlights of Air Weather Service personnel at work and play.

Capt. Edwin B. Huber, Aerial Weather Officer and Navigator for the 55th Weather Reconnaissance squadron recently received the Air Force Logistics Command Academic Achievement Award. The $50 award was earned for completing an off-duty, five semester credit hour course in Analytical Geometry and Calculus with a grade of "A". The education was received at the American River Junior College near Sacramento, Calif.

Huber

Lt. Col. Willard T. Brannon, Chief of Maintenance and Supply, 8th Weather group, Scott AFB, Ill., has been selected by MATS to attend the Maintenance and Management Seminar which is to be conducted at Wright-Patterson AFB, Ohio from November 5 through December 14, 1962.

The seminar, which is conducted by the Air Force Logistics, Command's School of Logistics in association with the Air Force Institute of Technology, examines the broad role of higher level management in the conduct of maintenance management. The objectives of the seminar are to stimulate growth and vision for application to the development and implementation of command decision and policies, to develop broader understanding of staff relationships and to enhance and round out executive performance.

A1c James R. Jarrett of 3d Weather wing's scientific services division was recently selected as headquarters Airman of the month. He devised a highly-praised electronic data tape filing and cataloguing system that permits weather scientists to have instant access to weather data for any given area of the world.

Jarrett

Recently, the Central Intelligence Agency (CIA), presented the National Intelligence Survey commendation award to Mr. John V. McNairy, who was Chief, Area Studies Branch and NIS Coordinator for the Climatic Center. While in this capacity he supervised and assured the timely forwarding of drafts to the CIA for publishing the National Intelligence Survey, Section 23, Weather and Climate. These surveys contain information on all countries and include information on the people, occupation, religion, etc.Section 23, for which Mr. McNairy was commended, pertains to the weather and climate portion.

Lt. Col. Eugene Tiddy recently assumed command of Det. 1, 55th Weather Reconnaissance squadron, Eielson AFB, Alaska. A veteran of more than 20 years service, he has 3700 hours of flying time and combat missions in World War II and Korea. Colonel Tiddy has been in AWS since 1948.

He came to Eielson from Shaw AFB, S.C., where he was Commander of Det. 4, 3d Weather squadron.

Detachment 1 has AB-57 aircraft for high altitude weather reconnaissance and furnishes support for WB-50 aircraft that come from McClellan AFB, California to fly a weather reconnaissance track almost to the North Pole.

Approximately 25 members of the 1212th Balloon Activity squadron are establishing a temporary operating location at Ellsworth AFB, S.D. The detached group will launch high altitude balloons to collect upper air samples at altitudes in excess of 100,000 feet. This new squadron mission is expected to continue until next spring.

Making the temporary move are balloon launch personnel, four aircraft and crews and maintenance teams.

During the flights launched from South Dakota, the largest balloon ever utilized operationally by the 1212th will be floated to 120,000 feet. This balloon is made of polyethylene and has a capacity of four million cubic feet.

ANGLO-AMERICAN TROPHY and a handshake are presented to A1c Gary Chesser (left) Det. 8, 28th Weather squadron, by Maj. Gen. Romulus W. Puryear, 3d Air Force Commander. Chesser received the award for his outstanding contribution to Anglo-American relations.

Peter E. Romo jr., son of Lt. Col. Peter E. Romo, AFMTC Staff Meteorologist, Patrick AFB, Florida, won a $1,100 scholarship for this academic year. Peter was awarded the George H. Gamble Honors Scholarship at Stanford University. This marks the fourth year that Peter has received grants ranging from $500 to this year's $1,100.

Graduating from the General Henry H. Arnold School in Wiesbaden, Germany, he enrolled at Stanford, majoring in mathematics, with plans of entering the computer field.

Romo

Peter expects to receive a commission in the United States Air Force upon completion of his senior year and has completed ROTC summer camp at Fairchild AFB, Washington, where he served as a Flight Commander. Peter can proudly be numbered among the Air Force sons who are setting today's profile for tomorrow's men in blue.

Maj. Lloyd G. Starrett, Commander, Det. 23, 4th Weather group, was recently elected Chairman for the Albuquerque Chapter of the American Meteorological Society. The Albuquerque chapter consists of members from the US Weather Bureau, Detachment 23, the University of New Mexico and Sandia Corporation. All forecasters and some observers from the detachment are members of the local chapter.

A1c Gilbert W. Sedabres was recently chosen Airman of the Quarter for Hq. 8th Weather group, Scott AFB, Ill. At a brief ceremony, Col. Louis Bertoni, Deputy Commander, presented Airman Sedabres with a check for $10.00 in recognition of outstanding devotion to duty during the period July through September 1962. In addition to the check, Airman Sedabres will be relieved of all additional details for one month and will receive a three day pass.

Versatile Airman Receives Award

A1c Gary Chesser from Evansville, Ind., and now with Det. 8, 28th Weather squadron, Mildenhall, England, was recently awarded the 7513th Air Base Group Commander's Trophy for Anglo-American Relations.

The award, started by Col. Thomas C. Kelly, base commander, to promote Anglo-American relations, rotates every three months.

Chesser's accomplishments, almost solely stemming from sports, have included playing for two English rugby teams, teaching softball and basketball at English schools to students and instructors and speaking on Anglo-American sports at various functions in surrounding communities.

He has also, at his own expense, chartered buses to bring English lads on base to play basketball and softball against American teams. Recently, the all-around athlete dabbled in show business, acting as a singing master of ceremonies for entertainment he arranged at a Cambridge school for handicapped persons.

TSgt Robert F. Fry, Observing Evaluation NCO, 3d Weather wing headquarters, Offutt AFB, Nebr., has been chosen as Weather's NCO of the month. Commenting on his selection, Col. Anthony T. Shtogren, 3d Weather wing commander said, "I feel it is particularly commendable that Sergeant Fry has devoted many off duty hours to self-improvement, completing five ECI courses and six USAFI courses."

Fry

"By Jove, Robby, a bit of poultry"

SHARING in the Thanksgiving Day festivities at his home, Robert William Quelch (left), son of Capt. and Mrs. William H. Quelch jr., AWSIG, frolics with his favorite girl, Miss Rose Edwards.

CLIMBING TO THE OBSERVATION PLATFORM, atop the USBW building, is one of the many duties performed by A2c Garth E. Wallis, augmentation observer.

Businessmen Visit Fuchu Air Station

The 1st Weather wing and allied units at Fuchu Air Station, Japan played host recently to 54 members of the Defense Orientation Conference Association, a group of prominent defense-minded business, industrial and professional leaders from the United States who travel at their own expense but tour under the auspices of the Secretary of Defense.

The group arrived in Tokyo via commercial transportation from Hawaii where they were briefed by Admiral Harry D. Felt, Commander-in-Chief, Pacific. The group was received in Japan by US Ambassador Reischauer and Admiral Miller, Chief of Staff, United States Forces Japan.

The group was led by Mr. Donald Belding, retired Chairman of the West Coast Advertising Agency of Foote, Cone & Belding. The DOCA contingent received special briefings during their visits to Fuchu Air Force Weather Central and to the 1st Weather wing's Scientific and Climatological Services Division.

The OBSERVER

Spotlights

Detachment 3, 35th Weather Squadron

Long periods of up-slope stratus and fog, from early Fall until late Spring, provide forecasters and observers with a never ending variety of ceiling and visibility values at Det. 3, 35th Weather squadron.

The detachment, located in Eastern Washington, at Spokane International Airport, appreciates the clear skies and excellent visibilities it encounters during the rather brief summer, when thunderstorms are not threatening.

The unit is a joint Air Force-Weather Bureau facility. All observations are taken at the Weather Bureau station and presently, two Air Force observers augment the Weather Bureau staff. It is expected that the strength will increase in the near future to insure a 24-hour continuous weather watch.

Weather Bureau equipment is used by the Air Force augmentation observers. Their observations are transmitted to the base weather station via Electrowriter and placed on the Sage Circuit by the observer on duty at that location.

Units supported include the 84th Fighter group and the 498th Fighter Interceptor squadron (Geiger Tigers).

Weather briefings are made to the commander and Operations personnel of the 84th Fighter group by Capt. James Owens, commander, Det. 3, and forecasters brief 498th Alert Crews and operational personnel.

Additional Support

In addition, support is also given to the 116th Fighter Interceptor squadron (ANG) and the 116th Weather Flight (ANG) which are stationed at Spokane IAP. Detachment 3 is the advisory team for the 116th Weather Flight and works in close cooperation with MSgt McCabe, ANG Technical Advisor.

Presently, the overall strength of the detachment totals 14. An observer is on duty around the clock, posting teletype and fax data, plotting sectional charts and upper air diagrams, transmitting observations, plotting severe weather warnings and advisories on the Sage Circuit. These are in addition to the Weather Bureau Augmentation program.

Forecasting service is on a limited basis, and hours and schedules vary to meet the needs of the flying units served. Three-hour trend forecasts, met watch advisories and tactical briefings via telephone constitute the main work load for forecasting personnel.

Close cooperation with the Spokane Air Defense Sector weather station is maintained at all times. Discussions, by telephone, with the duty forecaster take place at least twice daily and more frequently during periods when advisories or severe weather warnings are required. Additionally, other information such as pilot reports and flight data are exchanged.

Approximately one year ago, an effective quality control program was established at the detachment and has been continually undergoing improvement. Presently, the program is being supervised by the chief forecaster, CWO Henry W. Fulks and chief observer, MSgt Edward H. Hendricks. The program provides the detachment commander with a complete analysis of detachment operations, including areas needing special attention. In its present form, the program requires less than an hour per day, depending on weather conditions, to be kept current.

Aside from daily operations, recreation is available to all personnel in the form of fishing, hunting, boating, camping and skiing. A large recreation area, including boats for fishing and skiing, swimming facilities and a picnic area is maintained at Clear Lake by the Air Force.

Detachment 3 is a small unit in terms of assigned personnel and available facilities, but its desire to fulfill its mission exalts its accomplishments.

INSTRUMENTATION at the USWB includes the Observing Console being used by A2c Wallis.

Commendation Medals

US Air Force Commendation medals for the period of time listed have been recently awarded or approved for presentation to the following AWS personnel:

Colonel Robert L. Sorey, 26th Weather squadron, 3d Weather wing, from August 1, 1957 to August 1, 1962.

Colonel Lowell A. Stiles, Detachment 3, 1st Weather wing, from July 11, 1960 to July 28, 1962.

Lt. Colonel Francis T. McHenry, Detachment 22, 26th Weather squadron, 3d Weather wing, from September 2, 1958 to October 31, 1962.

Lt. Colonel Harold Banks, Detachment 8, 8th Weather squadron, 3d Weather wing, from July 1, 1960 to August 15, 1962.

Lt. Colonel Lynn T. Irish, Headquarters AWS, from September 15, 1958 to October 20, 1962.

Major Franklin Barrett, USAF Weather Task Force and Staff Weather Officer to US Military Commanders in Thailand, from September 4, 1961 to July 31, 1962.

Captain Louis E. Velez, Headquarters AWS, from August 4, 1959 to September 25, 1962.

1st Lt. William S. Muir, Detachment 3, 3d Weather wing, from January 8, 1960 to June 12, 1962.

1st Lt. David M. Taylor, Detachment 6, 4th Weather group, from April 1, 1961 to August 20, 1962.

SMSgt Robert E. Toynbee, 56th Weather Reconnaissance squadron, 9th Weather Reconnaissance group, from August 1,

(Continued on page 8)

Epps Receives Coveted Award

In the November 2, 1962 graduating class of the MATS NCO Academy, TSgt Robert E. Epps, weather observer, 6th Weather squadron, Tinker AFB, Okla., was presented the Commandant's Award for outstanding improvement in all phases of academy life.

His military career began on September 27, 1948, when he enlisted in the USAF for three years. After basic training, he attended the US Military Police School at Camp Gordon.

After separation from the Air Force in June 1953, Sergeant Epps was employed by an insurance company in Washington, D.C. until he re-enlisted on September 11, 1953.

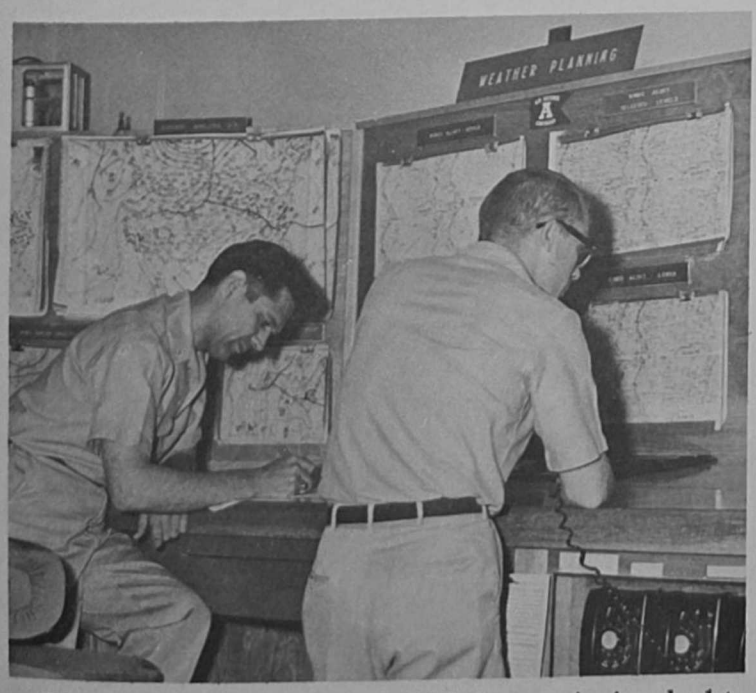
Late in 1954 he was assigned to the 12th District OSI at Chanute AFB, Ill., and after attending the basic OSI Special Investigation School at Washington, D.C., he became a special agent in OSI.

In 1959, after attending basic weather school at Chanute AFB, he spent 18 months as a weather observer and was selected to attend the Weather Observer Technician Course where he graduated with honors.

His awards include the Good Conduct Medal with four bronze loops, the National Defense Service Medal, the Air Force Longevity Award with three bronze oak leaf clusters and the Air Force Outstanding Unit Award, which was awarded to him while he served with the 1005th Special Investigations squadron in 1955.

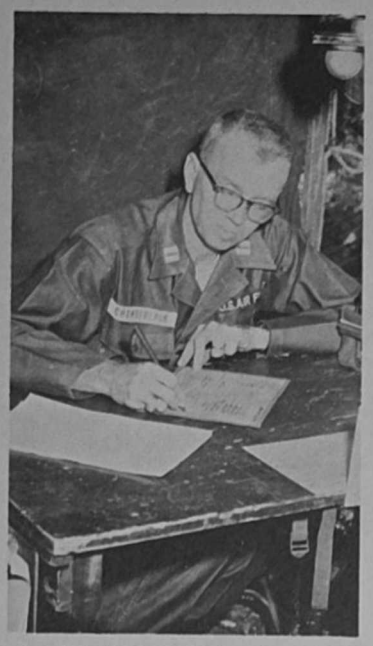
As winner of the Commandant's award, Sergeant Epps is the second honoree from 4th Weather group in four months.

MSgt Donald B. Seeko, Hq. 4th Weather group, was the honor graduate for the June 22, 1962 class.



TELEPHONE BRIEFING for a TAC clearance is given by 1st Lt. Maxwell G. Christopher (right) while CWO-3 Henry W. Fulks analyzes morning Skew-T's.

PROCEDURES ARE CHECKED by MSgt Edward H. Hendricks, chief observer, while A2c Larry L. Calhoun prepares a tape for transmission on the Sage Circuit.



DUTY FORECASTER, Capt. Robert M. Chamberlain, forecasts local weather conditions during Exercise Three Pairs.

Any Suggestions?

The Aeronautical Systems Division of AFSC, Wright-Patterson AFB, Ohio, is looking for a name for the 463L Materials Handling System, now being developed. 463L represents a total materials handling system employing all equipment for rapidly loading and shipping cargo the world over. It will be operational by 1965.

Suggestions for a popular name for the system are welcome from all military and civilian members of major Air Force commands which will use the system. These include those serving with MATS, AFSC, AFLC, SAC, TAC, ADC, ATC, USAFE, PACAF and AAC. Entries must be postmarked no later than December 31, 1962 to qualify. The winning entry will be presented with a scroll.

Hailstones as big as tennis balls rained down from the sky over Altus AFB, Okla., causing an estimated $30,000 to $40,000 damage. Aircraft, buildings, automobiles and personnel were pelted by stones, some three inches in diameter. One punctured the wing of a B-52.

Exercise Three Pairs Reunites Two Officers

During any military maneuver, with the scope of Exercise Three Pairs, many interesting personal stories arise. One such story, arising from US Strike Command's Joint Exercise, now in progress at Fort Hood, Texas, concerns two Air Force officers who are serving together as they did 20-years ago in the vital South Pacific campaigns of World War II.

Col. Alvin B. Buck and Lt. Col. Everette C. Newton were sent to Kearns Field, Utah in 1942 to take charge of a weather unit and squire it to the Pacific. Spending the duration of the war in the South Pacific, they reached most of the islands in that area, either together or separately.

During the war Colonel Buck had the distinction of being one of the few weather officers who volunteered to accompany the B-28 bombing raids over Tokyo, taking weather observations. He flew a full combat tour in this manner to win permanent air crew wings and was awarded the Distinguished Flying Cross and the Air Medal with three oak leaf clusters. At about this same time Lt. Col. Newton was commanding a weather task force during the invasion of Okinawa.

Go Separate Ways

After the war, both officers went their separate ways but kept in contact. Colonel Buck went on to become Deputy Commander, 2d Weather group, Langley AFB, Va., while Lt. Col. Newton became commander of the weather detachment at the US Strike Command's home base at MacDill AFB, Fla.

As assignments for Three Pairs were distributed, they found themselves together again in somewhat of a government-sponsored reunion with Colonel Buck acting as the staff weather officer and commander of the weather task force supporting Exercise Three Pairs and Lt. Col. Newton acting as his deputy.

In the exercise they command a weather task force of 17 officers, 4 warrant officers and 26 airmen. The group has established a tactical weather center at Fort Hood. Routine, as well as, operational forecasts are made available through this center and a continuous watch on weather conditions is maintained to permit diversion of exercise aircraft to other bases in the event of deteriorating weather.

Three days before the actual maneuvers of Exercise Three Pairs began, Colonel Buck's weather center was in full operation producing periodic forecasts. As far back as August, Lt. Col. Newton came to Fort Hood to assist in planning the joint operation from the weather standpoint.

The Operation Three Pairs tactical weather support center at Fort Hood is a very mobile unit. All equipment is designed to be air transportable and can be disassembled, packed into canvas bags and on its way to a new location in a matter of hours.

The military people manning the weather support force come from bases all over the country. The 2d Weather group has provided weather support for all joint exercises since the organization of USSTRICOM. This has been accomplished, as in the case with Operation Three Pairs, by withdrawing qualified forecasters and observers from established weather stations and headquarters units of the 2d Weather group. No one is immune. Col. Nicholas A. Chavasse, commander, 2d Weather group, personally served as staff weather officer for General Paul D. Adams at the recent Swift Strike II Exercise in the Carolinas. General Adams is the commander of USSTRICOM.

Communications Vital

One of the things Colonel Buck quickly points out about the operation of a weather task force, is its reliance on communications. Weather information is received from all parts of the United States and from field forces, processed and tailored to operational needs and then relayed to Three Pairs weather support teams located with each Joint Task Force headquarters, division headquarters, the Air Force's command post and other units supporting Operation Three Pairs.

The timeliness of this information is based on how quickly it can be processed, emphasizing the quality of the communications work.

A short time ago, SSgt Larry D. Crumley, Administrative NCO, Hq. AWS, Scott AFB, Ill., received a phone call from a near-by community bank and was informed he had just won 3,000 Top Value Stamps.

Skipping lunch he raced to the bank to secure his treasure, envisioning the beautiful gifts his prize would bring.

Two books later all 3,000 stamps were in place and even though Crumley had a parched tongue and empty stomach he remained optimistic. "Only 723 more books and I'll be able to get that new car."

WEATHER PERSONNEL (l to r), Capt. Irvin G. Jorgenson, Det. 9, 16th Weather squadron; 1st Lt. Paul R. Holmes, Det. 1, 2d Weather group, and TSgt Raymond L. Nybro, Det. 1, 2d Weather group, determine the effects of frontal movement on operations.

NASA Sets Record Launching 6th TIROS

The sixth TIROS meteorological satellite was launched by the National Aeronautics and Space Administration on September 18, 1962, at the Atlantic Missile Range, Cape Canaveral, Fla.

It marked the sixth time in as many attempts that a US meteorological satellite has been placed in orbit, establishing a record unmatched by any other NASA spacefraft system. Similarly, it set a new reliability record for the Delta booster vehicle which will have orbited 11 satellites in a row—an unprecedented record for US rocketry.

Launching of the TIROS was timed to permit maximum coverage by the satellite's two TV cameras of tropical storm areas in the Atlantic and Pacific Oceans during the last half of the 1962 hurricane season. It is expected to operate through December. TIROS V, launched on June 19, this year, has provided coverage over hurricane and typhoon areas in the Atlantic and Pacific Oceans during the first portion of the 1962 season. The useful lifetime of a TIROS satellite averages about four months.

Although the wide-angle TV camera, in TIROS V, continues to operate, the medium-angle Tegea lens has not functioned since July 6 because of a random electrical failure in the camera's system. In view of the importance of the TIROS' cloud cover photographs, during the time of greatest hurricane and typhoon activity (June through November), a backup TIROS was scheduled in order that coverage would not be interrupted. Therefore, although originally forecast for launching in November, the sixth TIROS was moved up to September. Because of this change, the TIROS is not equipped to conduct infrared experiments. Future TIROS satellites are programmed to carry infrared equipment and will continue radiated and reflected energy studies similar to those conducted by earlier TIROS spacecraft.

The new TIROS weighs 281 pounds. Compensating weight has been included to make up for the infrared equipment. Like TIROS V, it was launched into a circular orbit, about 402 miles (350 nautical miles) above the earth, with an angle of inclination of 58 degrees to the equator.

1942

WEATHER OFFICERS (l to r), 2d Lts. Alvin B. Buck and Everette C. Newton, team up to squire a weather unit to the Pacific.

1962

WEATHER OFFICERS (l to r), Col. Alvin B. Buck and Lt. Col. Everette C. Newton join forces in Exercise Three Pairs.

AWS Observes

Airborne Weathermen

by TSgt Thomas M. Watson, Det. 1, 2d Wea. Gp.
US Strike Command, MacDill AFB, Fla.

(During the past several months the OBSERVER has been praising the efforts of AWS parachutists. It has been brought to our attention that other individuals are interested in this type of training, and for this reason we bring you the story of a recent graduate of the Basic Airborne course at Fort Benning, Georgia.)

Presently, there is a requirement in the 2d Weather group for airborne qualified observers and forecasters. To help fill this requirement, I attended and completed the Basic Airborne course at Fort Benning, Ga., "Home of the Airborne." This training is designed to make you a fully qualified military parachutist. Instructors are the finest the Army Airborne divisions can furnish and equipment is the best in the world.

I was assigned to the 4th Headquarters and Service Company (Airborne), when I reported to Fort Benning. All officers, NCOs and airmen are assigned with officers and members of the Army, Navy and Marines, as well as with cadets from all service academies. At present, airborne training is of such importance that many academy cadets give up their summer leaves to attend the course.

The company area is nearly self-contained. There is a company and BOQ mess in the area, as well as, a barbershop, shoeshine parlor, laundry, tailor shop and Post Exchange. The PX branch is open evenings to make it available to students, since there is no break in the training schedule long enough to go to the PX during duty hours.

Fatigues with combat boots is the uniform for school, bloused in the Army manner. At least four uniforms and two pair of combat boots are required. Rank insignia is worn with regulation name tags over the right breast pocket and service branch tags over the left. Officer rank is of the sew-on type for safety and convenience. At least three new buckles and two belts are recommended.

Items of Interest

Although buckles need not be shined, they accumulate deep scratches rapidly and must be replaced. I took five buckles and used them all.

The laundry gives one-day service at 55 cents per uniform. Shoes must be well shined, but fortunately the shoeshine parlor has a contract policy. For $2 per week, they will shine all your boots. To me the service was well worth the money.

Next item of importance is inspections. Every day before the start of instruction, a personal inspection is conducted by cadre instructors. Uniforms must be pressed if you are above the rank of E12 (A3c).

Inspections

Officers are separately inspected by cadre officers. NCOs conduct the ranks inspection. Items closely watched for are general appearance and frayed or dirty uniforms. It is impossible to wear a uniform for two consecutive days; plan for a clean uniform every day. Shaves must be close, haircuts "airborne."

Immediately following inspection is physical training, which is mandatory for all personnel. The Army daily-dozen exercises are done in addition to the run. Prior to entering the course, students must take a physical training test of four pull-ups, 34 sit-ups, 80 deep knee bends and three six-minute runs with two-minute walks between the second and third increments. There is a two-minute time limit on the sit-ups and deep knee bends.

Training should be done in fatigues and boots, as all exercises at school are done in the same uniform. The PT test must be passed—failures go back for an additional week of physical training. Pass it the first time. Exceed these test requirements in pre-entry training.

Unless prior arrangements have been made to attend the standard three-week course, all officers and NCOs first attend the Air Mobility week of training. The second week for officers and NCOs is the first for airmen.

Ground week consists of physical training, inspections, parachute landing falls from two and four-foot platforms, wearing and adjustment of equipment, mock door exits and nine jump commands.

Tower week includes physical training, inspections, mass exits from 34-foot towers, mass exits from 250-foot (free-fall) towers, exercises with the wind machine, suspended harness, swing landing trainer, mock door training and malfunctions.

Jump week consists of inspections, mock door and parachute landing falls. Depending on weather conditions and suitability of aircraft, five jumps are made —usually one each on Monday, Wednesday and Thursday, and two on Tuesday. The last jump on Thursday is with full combat equipment, including the M-14 rifle. Friday of jump week brings graduation.

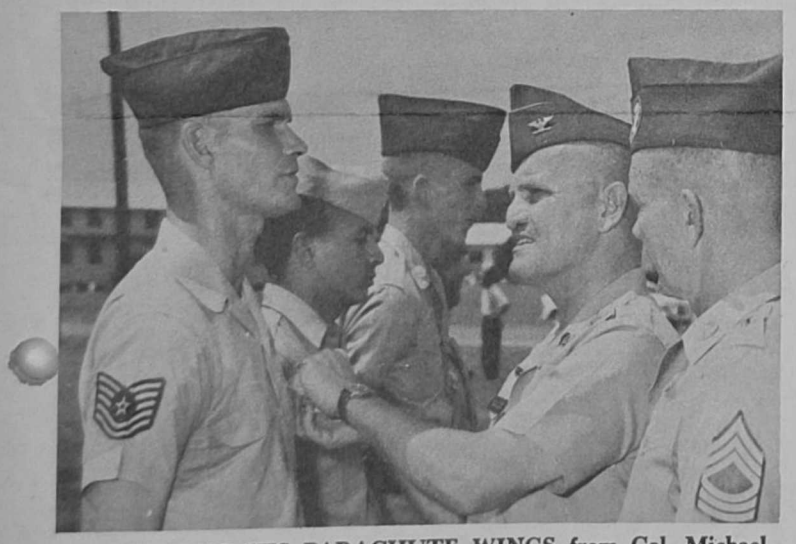
Throughout the course a total of four demerits is allowed. These are given for all points of performance. Minor infractions or slowness are corrected on the spot by a mental alertness exercise (ten to 22 push-ups or deep knee bends). It saves wear and tear on the individual if he looks sharp at all times. Excessive gigs might mean repeating a week of training.

Take sufficient funds in the form of travelers' checks. Fort Benning will cash checks only for those who have an account in the Benning bank. At certain times, the PX will cash checks, but only for amounts less than $25.

Those who have initiative and personal desire to become "airborne qualified" will qualify. Preparation physically and mentally for airborne training is of great value. Training is hard but pays off and a great personal satisfaction is gained upon completing the course.

My best word of advice is to go to airborne training as the Spartans went to battle, "To win or be carried from the field."

With a healthy attitude and willingness to learn, you will graduate as one of the best-trained airborne airmen in the world, fully qualified to participate in military jump operations.



RECEIVING HIS PARACHUTE WINGS from Col. Michael Paulick, Director of the Airborne-Air Mobility Depart., USA Infantry School, Fort Benning, Ga., is TSgt Thomas W. Watson, Det. 1, 2d Weather group.

AREA WEATHER CONDITIONS for the Frankfurt, Wiesbaden and Heidelberg areas are taped by Capt. Posy L. Holcomb jr. The tapes are heard by Air Force News listeners on week-ends and are presented by Det. 25, 31st Weather squadron, Rhein-Main AFB, Germany, as part of a local weather broadcast.

Births

SHAW, 1st Lt. and Mrs. Craig D., a daughter, born September 3, 1962 at Madigan General Hospital. Father assigned to Det. 4, 35th Weather squadron, McChord AFB, Washington.

PAUKER, SSgt and Mrs. Joseph R., a son, born September 22, 1962 at Madigan General Hospital. Father assigned to Detachment 4, 35th Weather squadron, McChord AFB, Washington.

WALLACE, TSgt and Mrs. Ray H., a daughter, Tammy Faye, born September 24, 1962 at Obion County General Hospital, Union City, Tennessee. Father assigned to Detachment 5, 1st Weather wing, APO 74, San Francisco, California.

SANDS, Lt. and Mrs. William J. jr., a daughter, Sherri Lynn, born October 6, 1962 at Orlando AFB hospital, Orlando, Florida. Father assigned to Detachment 5, 8th Weather squadron, McCoy AFB, Florida.

McCLOSKEY, SSgt and Mrs. Sidney A., a son, born October 10, 1962 at Selma, Alabama. Father assigned to Detachment 21, 24th Weather squadron, Craig AFB, Alabama.

Deaths

The OBSERVER regretfully announces the following deaths:

1st Lts. Glenn H. Sprague and Robert E. Galbrecht, both of the 57th Weather Reconnaissance squadron, were killed in a recent B-57C aircraft accident.

Capt. Robert J. Ulrich, AWS-IG, in an automobile accident near Lebanon, Illinois, on November 18, 1962.

Building of the pyramids and the Great Wall of China consumed a far greater share of total energy and resources available in their times than manned exploration of the moon will require in our economy.

Solar pressure on the satellite, ECHO, is estimated at "1 housefly-power."

Navy Tribute Reaches AWS

An "absolutely magnificent performance" by MATS in positioning the Marines into Guantanamo during the recent Cuban crisis recently drew the praise of Chief of Naval Operations, Adm. George W. Anderson.

The admiral's tribute was contained in a letter to Air Force Chief of Staff, Gen. Curtis E. LeMay, who added his own commendation in a letter to MATS commander, Lt. Gen. Joe W. Kelly.

General Kelly praised the MATS command performance in endorsing the letters down to EASTAF, WESTAF, APCS, ARS and AWS.

Admiral Anderson, in his letter to General LeMay wrote: "Please accept the congratulations and appreciation of the Navy and Marine Corps for the absolutely magnificent performance of MATS in positioning our Marines from the West Coast to Guantanamo.

"The efficiency and dispatch with which this operation was carried out attests to outstanding coordination and direction from the top down through and including the line mechanics for the individual aircraft.

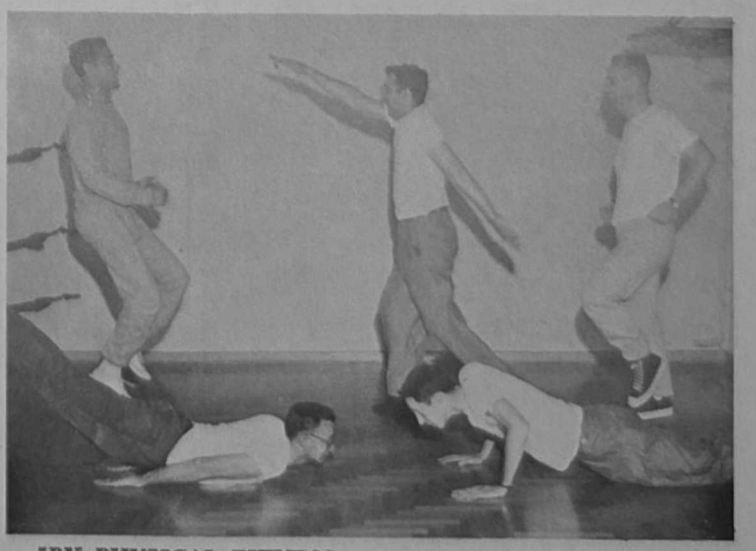
"The Marine lift into Guantanamo was but one of many MATS accomplishments during recent days without which our combined efforts would have been something less than effective."

General LeMay called the MATS lift one of the finest examples of teamwork and dedication to duty he had ever witnessed.

"I add my appreciation to that expressed by Admiral Anderson ...for your exemplary performance of duty," the Chief of Staff wrote to General Kelly.

General Kelly said the letters were a fitting tribute for the "professional job accomplished at all echelons of MATS during the movement..."

"Every man and woman in MATS can be proud of the splendid performance which prompted the recognition," the MATS commander said.



5BX PHYSICAL FITNESS program is under way at Det. 11, 31st Weather squadron. The 21 officers and airmen of the weather unit started their conditioning program on September 5, and have followed the outline as directed by the 5BX booket. Here members of the unit limbering-up include (front row): A1c Dale E. Kipple (left) and A2c Thomas C. Doyle; (back row l to r), A2c Roger F. J. Mercier, A1c Willard M. Eisert, and SMSgt Larry J. Kluth.

Radio Program Features Taped Weather Broadcasts

On July 21, 1962, Det. 25, 31st Weather squadron, Rhein-Main AFB, Germany, started the production of a taped weather broadcast for public consumption. The American forces network in Frankfurt, Germany requested a live weather broadcast for their "Week-end World" program. As a result, every Saturday and Sunday the duty forecaster prepares a two or three minute broadcast twice daily. The weather portion of the program is prepared at the detachment, transmitted from there directly to a recording tape at the AFN studio. There it is played at an appropriate time during the program.

The weather forecast is heard throughout the European area, from Ireland to the iron curtain countries and from Scandinavia to the Mediterranean. The broadcast is tailored for consumption by the military public giving details in rather general terms.

The program begins with a description of weather occurring over a specific area with emphasis on sky coverage, precipitation areas, temperature ranges, position of fronts and high and low pressure systems. Included is a reason for the occurrence of the significant phenomena. The second portion of each broadcast is devoted to forecasting.

This program is heard throughout Western Europe and the weather portion is generally heard in conjunction with traffic and road reports in Germany. Undoubtedly, servicemen and their families make many decisions regarding picnics, leaves and weekend excursions, once the weather outcome is determined.

On October 1, 1962, the service to AFN was expanded to include two one minute tapes to be played daily Monday through Friday. These tapes only include a forecast for the Frankfurt, Wiesbaden and Heidelberg areas.

Aside from the taped broadcasts, the unit provides four brief forecasts for the continent and current temperatures and forecast high and low temperatures for Frankfurt, Wiesbaden and Heidelberg. These are read over AFN by the regular announcer.

To round out services to the public, the unit provides the European edition of the STARS AND STRIPES with a news service type weather chart and brief forecast covering Western Europe, the British Isles and the Mediterranean countries. This feature appears in the edition distributed in the Frankfurt area.

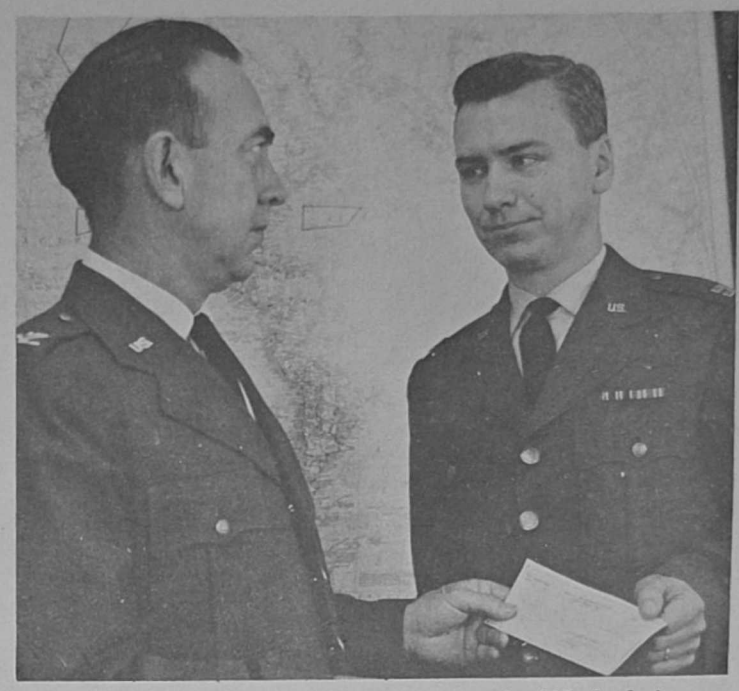
Six Reach Finals In Safety Contest

Six members of Air Weather Service have reached the finals in the annual MATS Flying Safety Poster contest.

TSgt Shepard M. Humston, Det. 16, 1st Weather wing, won two $15 awards for outstanding posters he submitted and Capt. Richard L. McManus, Budget Officer, 8th Weather group won an award in the contest for the second time in four years. In 1958 while serving with the 2d Weather wing in Germany his poster won second place in the MATS-wide competition and he was awarded a check for $50 and a handsomely engraved trophy.

Other individuals receiving $15 awards included: Capt. William E. Porter, 56th Weather Reconnaissance squadron; A1c J. L. Hightower, 53d Weather Reconnaissance squadron, and A2c Earl W. Armstrong, Det. 14, 16th Weather squadron, Fort Hood, Texas.

PILOT BALLOON is followed by A2c David H. Jones through a theodolite to determine wind velocities at Mikra, Greece, as Capt. John F. Morrissette (left), records the findings.



SPECIAL RECOGNITION, in the form of a $15 check, is presented by Col. John J. Jones (left), commander, 8th Weather group, to Capt. Richard L. McManus, Budget Officer of the same unit. Capt. McManus received the award for being selected as an Air Weather Service finalist in the MATS Flying Safety Poster Contest.

Retirees

Following AWS personnel retired on dates indicated. The listing is by rank and month of retirement.

September 30, 1962

Lt. Col. Adolph Gaertner jr., Hq. AWS, Scott AFB, Illinois.

Maj. William C. Woodworth, Hq. 1st Weather wing, APO 925, San Francisco, California.

Maj. John W. Braheny, 29th Weather squadron, 4th Weather wing, Richards-Gebaur AFB, Missouri.

Maj. John T. Harrell, 26th Weather squadron, 3d Weather wing, Barksdale AFB, Louisiana.

Maj. Lawrence B. Duke, 53d Weather Reconnaissance squadron, 9th Weather Reconnaissance group, APO 856, New York, New York.

Maj. Willie H. Lankford, 32d Weather squadron, Oklahoma City AFS, Oklahoma.

Maj. Floyd W. Vanderman, 1210th Weather squadron, Annex 2, 225 D St., S.E., Washington 25, D.C.

Maj. Arthur E. Leonard, Hq. 4th Weather group, Andrews AFB, Washington 25, D.C.

Capt. Astor K. Johnson, 16th Weather squadron, 2d Weather group, Ft. Monroe, Virginia.

CWO W-4 Augustus L. Pearson, Hq. 3d Weather wing, Offutt AFB, Nebr.

CMSgt Charles F. Mertensotto, Det. 6, 33d Weather squadron, 4th Weather wing, Truax Field, Wisconsin.

SMSgt Robert E. Chalfant, Hq. 2d Weather wing, APO 633, New York, New York.

MSgt Paul J. Perry, 56th Weather Reconnaissance squadron, 9th Weather Reconnaissance group, APO 328, San Francisco, California.

MSgt Richard A. Goldsmith, Det. 11, 11th Weather squadron, 3d Weather wing, Hunter AFB, Georgia.

MSgt Marshall W. Hendrix, Det. 9, 24th Weather squadron, 8th Weather group, Perrin AFB, Texas.

MSgt Choron A. Grimsley, Hq. AWS, Scott AFB, Illinois.

TSgt Gerald A. Berry, Det. 41, 12th Weather squadron, 4th Weather wing, Ft. Lee AFS, Virginia.

SSgt Woodrow W. Fitzgerald, Hq. AWS, Scott AFB, Illinois.

October 31, 1962

Lt. Col. Mark J. Brown jr., 4th Weather squadron, 4th Weather wing, Hamilton AFB, California.

Lt. Col. Jack A. Bell, 15th Weather squadron, 8th Weather group, Charleston AFB, South Carolina.

Lt. Col. Lynn T. Irish, Hq. AWS, Scott AFB, Illinois.

Lt. Col. Valdo Y. Moncado jr., 29th Weather squadron, 4th Weather wing, Richards-Gebaur AFB, Missouri.

Lt. Col. Leland J. Rath, 24th Weather squadron, 8th Weather group, Randolph AFB, Texas.

Lt. Col. Francis T. McHenry, 26th Weather squadron, 3d Weather wing, Barksdale AFB, Louisiana.

Lt. Col. Ross E. Voyles, 9th Weather squadron, 3d Weather wing, March AFB, California.

Lt. Col. Ralph W. Wilson, 8th Weather squadron, 3d Weather wing, Westover AFB, Massachusetts.

Lt. Col. Charles E. Lambert, Hq. 4th Weather group, Andrews AFB, Washington 25, D.C.

Maj. Emerson W. Smith, 55th Weather Reconnaissance squadron, 9th

(Continued on page 7)

AWS Nominated For Safety Award

Air Weather Service has recently been nominated by MATS for the Laura Taber Barbour Safety Award.

The award is to be presented to a person or associated group for notable achievement of method, design, invention, study, or other improvements in the field of civil or military aviation safety.

The award consists of a gold medallion, certificate and honorarium. It is a gift of father and son, Clifford E. Barbour sr. and Clifford E. Barbour jr., of Pittsburgh, Pa., in honor and memory of Mrs. Clifford E. Barbour sr., Laura Taber Barbour, who lost her life in an aviation accident in 1945.

MATS based their nomination on the dedication of Air Weather Service in their efforts to forecast accurately, provide precise weather measurement in critical terminal areas, predict hazardous elements and disseminate such information immediately.

Lt. Gen. Joe W. Kelly, MATS Commander, said, "I feel that the Air Weather Service is worthy of the highest consideration for this award. Their efforts have a bearing on safety in almost all walks of life, from private aviation to missile launch and from business to sports. Without their contributions, the deterrent posture of this country could not be maintained with any degree of authority, and the technological advances in speed and safety achieved thus far in civilian aviation would be compromised because of extreme unreliability."

"Quick Reaction Force" Utilizes Weather Team

One of the most stable units at Chateauroux Air Station is also one of the most mobile.

Included in Detachment 22, 31st Weather squadron, commanded by Maj. Rolla E. Griffith, is "Package Weather Station Alpha."

The five man team of this flexible unit serves as part of the MATS "Quick Reaction Force." Born through the necessity of immediate airlift response to trouble spots around the globe, such as the Congo crisis, the team is prepared to dispatch within two hours after alert of an emergency airlift to any destination in Europe, Africa or the Middle East.

During the recent SOUTHERN EXPRESS exercise in which MATS aircraft airlifted NATO's Mobile Land Force from northern Europe to Greece, "Package Weather Station Alpha" arrived on an advanced aircraft and provided weather forecasting at Mikra, Greece, for the duration of the exercise.

Normally, the weather team works two 12-hour shifts, however, some 15 to 20 days after deployment they can be augmented by additional weather personnel.

In exercise SOUTHERN EXPRESS they were immediately strengthened from nearby Athens by Lt. Col. Harold Hovey and A2c John Melbostadt. Colonel Hovey then commanded the detachment for the remainder the exercise.

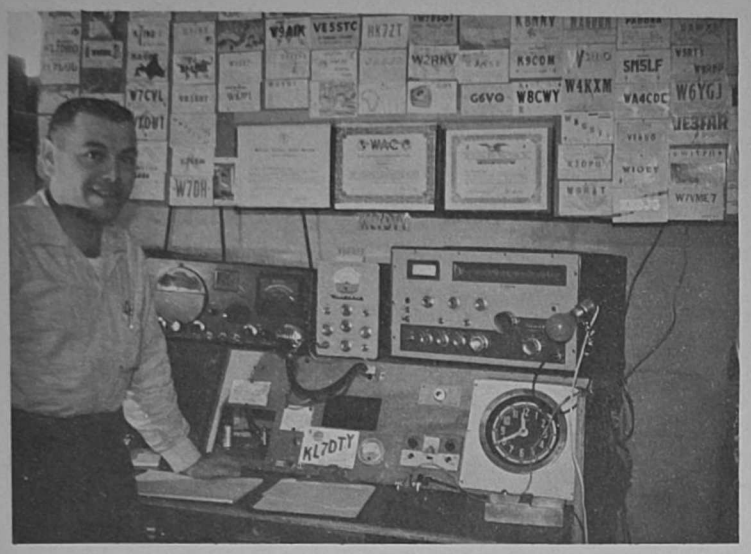
Dispatched under the command of Capt. John F. Morrissette, the weather team from Chateauroux included Lt. Richard Kennah, A1c Cecil Sapp and A2c David Jones.

The packaged weather station cosists of tents and all necessary weather instruments to provide complete weather forecasting and observing under all conditions.

Through the mobile communications squadron, also used in supporting MATS operations in the field, this weather team is able to acquire weather charts over facsimile facilities and weather forecasts from more distant locations.

Other personnel, including specialized equipment for the MATS Quick Reaction Force for the European Theater, are assigned to the 1602d wing and the 1616th Support squadron.

Satellites and rocket bodies hurled into space more than four years ago are still being tracked by scientists from the National Aeronautics and Space Administration's Space Operations Control Center at Greenbelt, Md. Nearly 100 vehicles are orbiting the earth and several are continuing to transmit signals. Included in the latter group is Vanguard I, launched on March 19, 1958.



AMATEUR RADIO communicator, SSgt Martin A. Powers, 11th Weather squadron, recently received the Worked All Continents certificate by the American Radio Relay League.

Leadership . . .

(Continued from page 1)

Age which has already put men into orbit around the earth and has given weathermen — through the TIROS weather satellites — a look at the earth's atmosphere from above — this Space Age is the Age of the Scientist. We are in the midst of a scientific revolution beside which the Industrial Revolution of the past 200 years pales into insignificance."

Voice Not Enough

"Gone are the days in which a commanding voice and an inspiring manner were the chief requirements for leadership. Today, these attributes — while still necessary — are not enough. An inspiring manner has no measurable effect upon a mathematical formula or physical law . . . and no satellite has yet been shouted into orbit."

"A few weeks ago I was privileged to hear some far-sighted comments by one of the foremost scientific leaders of our day, Dr. Edward Teller. Dr. Teller was exploring the varied aspects of modern man's relationship to the space-age environment in which we are now all called upon to live and work.

"He made one point particularly significant to this subject of leadership: 'Man's ability to make a magnificent response to moments of stress.' Dr. Teller believes, as I do, that this ability is not a hallmark of space-age man, but a characteristic of all men, in all ages. I would add that it is an essential attribute of leadership today as in no other age.

Flexibility Important

"Upon this potential 'magnificent response' depends the most important single attribute of modern leadership — flexibility. Not only must today's leader possess the ability and the knowledge to apply time-honored techniques and methods; he must have the versatility and flexibility to direct men and resources at his disposal in new directions, along new paths, to achieve new objectives.

"If he is to do so, the challenge of these new objectives must draw forth from him the 'magnificent response' and, most important of all, his character and example must call forth the same 'magnificent response' from those under his command."

"Demands of this era in history are reflected in rapidly changing, ever-expanding missions for every element of our armed forces, however small or large that element may be. As a scientific as well as operational command, charged with the world-wide task of serving all the Air Force and much of the Army, Air Weather Service meets this fluid working environment at every turn. Not only must the continuing weather-support needs of today be met, but the environmental-support requirements of tomorrow must be anticipated and analyzed, and techniques and procedures devised to satisfy them.

Moon Forecasts Needed

"Although man has already successfully orbited the earth, C-54s still fly from Point A to Point B — and their pilots still need weather briefings to make each flight. On the other hand, Project Apollo promises to take man to the moon in this decade, and forecasting the environmental conditions for that flight is altogether another matter.

"Needless to say, the opportunities for enlightened, flexible versatile leadership in the weather service are boundless . . . now that even the sky is no longer the limit.

"For example, we in AWS are now engaged in a 60-day test of hitherto untried abilities to forecast the occurrence of solar flares and proton showers. These far-reaching results of gigantic storms on the surface of the sun (beside which our own hurricanes and typhoons are mere pinwheels) will have much to do with man's ability or inability to survive outside the blanket of atmosphere which now protects us from our sun.

Solar Flares Dangerous

"Since these solar flares and poton showers greatly increase for a time the level of hazardous cosmic radiation outside the earth's atmosphere, a demonstrated ability to forecast the solar storms which cause them is of vital importance.

"If it should prove impossible to forecast them — and I don't believe at this point in time that it will prove impossible — manned space vehicles will have to be heavily shielded, thus increasing thrust requirements and reducing useful payload and equipment.

"I need hardly point out that leadership in this area cannot be guided by traditional methods or experience, but demands a new approach, developed from intelligent analysis of limited research data."

Missile-Launch Leadership

"Consider if you will the strenuous and stringent demands for enlightened leadership placed upon those responsible for launching our various missile shots. Here again, weathermen pursue uncharted ways, calling forth the utmost in flexibility and versatility to meet the challenge.

"In order to provide each shot with effective weather support, AWS men at Cape Canaveral must be fully conversant with the characteristics of the particular booster and vehicle selected to do the job."

"The exacting demands of this space-age Air Force of which we are all a part are not peculiar to any one command — they pervade the total mission of the aerospace force which the Air Force has now become.

Magnificent Response Vital

"It is precisely for that reason that Dr. Teller's 'magnificent response' is so vital to leadership today. Brought forth, as he said, by stress, the maximum achievement which it represents has ceased to be simply desirable — it has become an essential requirement of our ability to survive.

"As leaders, we must be prepared not only to respond magnificently ourselves but to elicit from our subordinates the same degree of response. Anything less is too little, and unequal to the challenge."

"One other aspect of leadership must be mentioned — the modern necessity for taking the larger, over-all view, rather than the narrow, parochial view of any situation. Command cannot be effectively exercised from the bottom of a well — it requires the broad panorama of the hilltop.

Fluency in Other Fields

"The military meteorologist faces this basic principle of command by virtue of the ever-increasing need for fluency in scientific fields outside meteorology itself. It is no longer enough to be simply a meteorologist — it has become essential to understand the principles of astrophysics, celestial mechanics, and the like — just as the modern physician must also be part psychologist, part chemist, part social worker, to perform his job properly."

"In another sense, this principle of taking the larger view is demonstrated in the business of pursuing mutual goals with members of other military services, other governmental agencies, other countries. It is in this area, perhaps, that the increasing demands placed upon today's leaders are most strongly felt.

"No longer can we afford the luxury — if, indeed, we ever could — of operating on the basis of a one-sided view. To do so is to proceed on the basis of insufficient data."

"In summation, I hope that I have made clear my belief that the impact of the Space Age upon the Air Force has made necessary the emergence of a new type of leader."

Hallmarks of New Leader

"The hallmarks of this leader are a thorough knowledge of not only his own particular field of endeavor but allied fields as well; a flexible and versatile approach to problems, which will permit him to respond effectively to new challenges and to evoke the same sort of response from his subordinates; a determination to take the broad, over-all approach, rather than the narrow, parochial one; and a genuine recognition of the fact that this sort of informed and inspired leadership is essential to the age in which we now live.

Retirees . . .

(Continued from page 6)

Weather Reconnaissance group, McClellan AFB, California.

Maj. Bernard M. Rose, 9th Weather Reconnaissance group, McClellan AFB, California.

Maj. Ralph G. Wallace, 1210th Weather squadron, Annex 2, 225 D St. S.E., Washington 25, D.C.

Maj. Neil B. Gardner, Hq. 8th Weather group, Scott AFB, Illinois.

Maj. James R. Miller, 8th Weather squadron, 3d Weather wing, Westover AFB, Massachusetts.

Maj. Richard G. Shiplet, 26th Weather squadron, 3d Weather wing, Barksdale AFB, Louisiana.

Capt. Michael A. Titre, 16th Weather squadron, 2d Weather group, Ft. Monroe, Virginia.

Capt. Robert J. Burright, Hq. 4th Weather wing, Colorado Springs, Colorado.

Capt. Charles M. Deardorff, 24th Weather squadron, 8th Weather group, Randolph AFB, Texas.

Capt. Charles M. Umpenhour, 26th Weather squadron, 3d Weather wing, Barksdale AFB, Louisiana.

CWO W-4 Norman L. Tyler, 16th Weather squadron, 2d Weather group, Ft. Monroe, Virginia.

CWO W-3 Elmer J. Holt, Hq. 4th Weather group, Andrews AFB, Washington 25, D.C.

CWO W-3 Maximillian C. Kozak, 15th Weather squadron, 8th Weather group, Charleston AFB, South Carolina.

Scientists Discuss Space Factors

In October, under sponsorship of 4th Weather wing, Scientific Services, Ent AFB, Colo., Maj. Leonard L. DeVries and Capt. Ramon Wilkins of Hq. Air Weather Service, Scott AFB, Ill., held a series of conferences with SPADATS, 71st Surveillance wing, ADC Operations Analysis, NORAD and ADC Plans Divisions.

Major DeVries and Captain Wilkins represented Scientific Services, Hq. Air Weather Service. Their purpose was to discuss problems of describing and forecasting environmental effects on man, vehicles and instruments in space and space environmental factors on the future NORAD operations. Discussions involved the variable air density on the rate of change of orbits for satellites tracked by SPADATS. Other topics discussed were the effects of Aurora and meteorites on BMEWS radars and of various solar and space influences on future NORAD systems.

The mutual exchange of information during these conferences will assist the 4th Weather wing in support of NORAD and ADC in fields of meteorological and natural environmental support.

Powers Gets Radio Award

SSgt Martin A. Powers, Weather Equipment Technician, 11th Weather squadron, was recently awarded the Worked All Continents certificate by the American Radio Relay League.

A ham operator for the past two years, SSgt Powers received the award for having carried on two-way radio communications with other amateurs on all six continents.

A member of the US Navy from 1945 through 1948, SSgt Powers enlisted in the United States Air Force in January 1955. He completed rawinsonde operator training at Chanute AFB, Illinois in June 1955, and later attended the Weather Equipment Repairman and Weather Equipment Technician courses at Chanute. He was assigned to the 6th Weather squadron, Tinker AFB, Okla., from 1956 to 1959, and was assigned to Alaska in 1960 following completion of the Weather Equipment Technician course.

Powers finds radio activities a satisfying and interesting hobby. During the past two years, he has contacted other "hams" in 39 states of the United States, six provinces of Canada and in 46 countries ranging from Australia and the Union of South Africa to Russia. He estimates that he has contacted nearly 1000 amateurs during this period.

PAIR OF TOP NATIONAL Boy Scouts of America executives and a pair of high level scouters in the local area discuss the scouting program in the Far East. Mr. Charles H. Heistand (2nd from left), Assistant Chief Scout executive and Mr. Kenneth B. Spear (2nd from right), Assistant National Director of Field Operations, confer with Col. William S. Barney, commander, 1st Weather wing and Kanto Plain District chairman. James A. Earley (far right), Scout Executive for the Far East Council, looks on. The two national executives are on a round-robin tour of scouting facilities in the Far East.

Speedster Jones Places Third

1st Lt. Jerry D. Jones, Det. 12, 15th Weather squadron, Olmsted AFB, Pa., recently captured 3d place in the arduous Pike's Peak Marathon Run. The 26 mile, 385 yard long course began at the Cog Railway Station in Manitou Springs, Colorado and progressed up the rough and rocky Barr Trail to the summit of Pike's Peak (14,110 ft.) and returned down the same route to downtown Manitou Springs.

Thirty-five runners, from different parts of the country, started the race but only 21 were able to complete the course. John Mohler and Robert Rose, both from Kansas State College, finished first and second respectively in 4:10 and 4:14. Jones's time was 4:32, the best performance ever turned in by an Eastern runner in the seven year history of the thin altitude race.

Jones had only a few days to accustom himself to the rarified atmosphere and to adjust his running to a constant uphill climb. Consequently, his excellent finish surprised most long-distance running buffs.

"The whole secret to this test of stamina and endurance," Jones pointed out, "is getting used to running at that altitude. Both Mohler and Rose were practicing there since June. They had a tremendous advantage."

"I was real close to the two going up the 14,110-foot peak," he explained. "But coming down, wow! There's no way to control your speed, and as a result I fell four times and banged myself all up." Jones added that he had several nose bleeds because of the high altitude. Above the timberline the runners encountered snow, rain and hail at several points.

Lt. Jones is now competing regularly in long distance runs in the East and is pointing toward the Atlantic City Marathon and the Culver City, California Marathon. Both of these races will be counted as trials for candidacy to the US team for next spring's Pan-American Games in Brazil.

THIRD PLACE WINNER in the Pike's Peak Marathon Run, 1st Lt. Jerry D. Jones, Det. 12, 15th Weather squadron, prepares for future long distance runs.

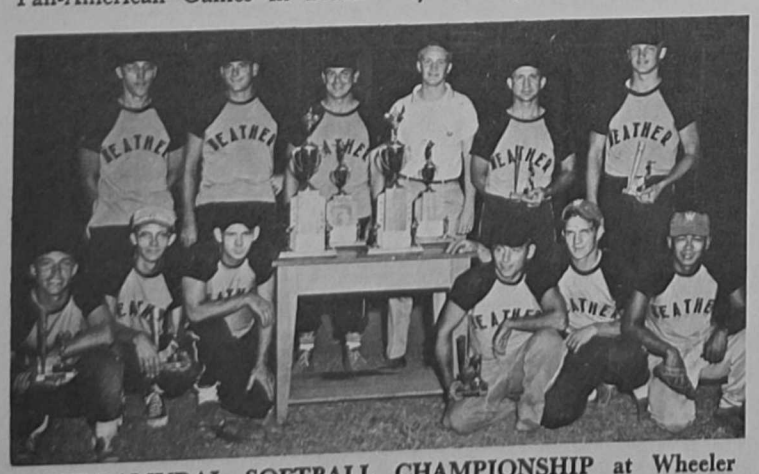
Charity Project Nets Profit

The 11th Weather squadron, Elmendorf AFB, Alaska, successfully completed its third charity Headpin Bowling tournament, netting $127 for the Greater Anchorage Community Chest.

First place trophies, in both the three game and single game events, went to SSgt John Sanderson of the 11th Weather squadron Field Maintenance Shop. His scores were 301 out of a possible 360 in the three game series and 108 out of 120 in the single game event.

SSgt Hillard Schrupp, Det. 13 observing section, took second place in both events with scores of 300 and 106. The third place trophy, in the three game series, was awarded to SMSgt Richard Patton, a forecaster at Det. 13, who had a 293 series. TSgt Fred Baldwin, NCOIC of the squadron observing branch, took third place in the single game event with a 102 score after edging three other bowlers who finished in a four-way tie.

The tournament was managed by CWO John F. Gaillard.



INTRAMURAL SOFTBALL CHAMPIONSHIP at Wheeler AFB, Hawaii, was won by Det. 3, 1st Weather wing. They also won a post-season double elimination round-robin tournament with a record of 5-1. SSgt Jess Gunter was the team's captain and coach. Pitching chores were shared by A1c Bill Willis and Gunter. Displaying the "hardware" they collected are (l to r): (Kneeling) A1c W. Willis, Capt. S. Swisher, A2c Curt Hayes, Gunter, A2c R. Osenbaugh and SSgt W. Sibayan. (Back row) SSgt T. Gurrski, TSgt H. Joseph, Maj. R. Smith, A3c J. Bonner, Capt. G. Luckenbach and A3c R. Reid. Not in the picture but members of the team are Lt. Col. W. Staten, SSgt E. Voneski, A1c E. Fennessy and SMSgt S. Pemberton.

Sport Shorts

The 3902d Headquarters squadron of Offutt AFB, Nebraska, recently defeated the golf team of the 3d Weather wing, its traditional rival, in an inter-squadron league championship match.

Previous to this year, the 3d Weather wing headquarters team had won the inter-squadron competition for five consecutive years.

This year it was a different story as the 3902d demonstrated it had a team of outstanding "divot-takers." Five members finished the season with handicaps of four or less.

3d Weather wing concluded the season minus the services of two of its best golfers, 1961 Strategic Air Command champion, 1st Lt. Richard Correll and CWO Augustus Pearson. Both men left the service shortly after the season opened.

Lack of a suitable set of golf clubs apparently had no serious effect on the golfing ability of A1c Juan Longoria, Det. 16, 24th Weather squadron, Webb AFB, Texas.

Using an old set of unmatched Personnel Services clubs, checked out on the day of the tournament, Airman Longoria finished first in the first flight of the Webb Open Golf Tournament.

Matched against the cream of the base golfers, none of whom carried less than a full matched set of clubs, Juan emerged victorious.

The final round was a photo finish between Longoria and Sergeant Adams, but Juan finished strongly to nail down first place and the trophy.

An Air Force kegler at Nouasseur AB, Morocco is claiming a record and base recreation officials are supporting him until the mark is disproved. The mark set by A2c Paul Robbins is two 300 games in as many days. He rolled the first perfect game on the base lanes on October 2 and followed with a 300-game the next day. Airman Robbins, who has been bowling 13 years, owns a 198 average this year. He had a 200 average last year and his high three-string mark is 770. Any challengers?

Capt. Alonzo Smith jr. and 1st Lt. Richard C. Abel, both of Det. 62, 11th Weather squadron, placed first and second respectively in the base single bowling tournament recently conducted at Shemya AS, Alaska.

Captain Smith topped the field with a handicap score of 1278 pins for six games and Lieutenant Abel followed with a total of 1220 pins.

AWS reconnaissance will be on television next month, reports Lt. Col. Robert E. Hairston, Air Force Hurricane Liaison Officer, from Miami. On December 16, Walt Disney's "Wonderful World of Color" will carry films of 1961's Hurricane Hannah, filmed in part aboard AWS Hurricane Hunter WB-50s and at the National Hurricane Center in Miami.

Check local TV schedules for time and channel for the Sunday-night show, which is a National Broadcasting Company network program, telecast at 7:30 p.m. EST.

Softball Champs

EMERGING LEAGUE CHAMPIONS of the Northern Elmendorf Intramural Softball League, the 11th Weather squadron softball team finished the season with 13 wins against three losses. Lt. Col. Archie M. McFarland (center), presents the league championship trophy to team captain SSgt James Rhame (lower right). Other members of the team include (l to r): (Back row) SSgt William Bossie and TSgt Francis Wood; (3d row) A2c Richard Hook, A1c Wesley Speulda and A1c James Swann; (2d row) A1c Louis Yannotti, A1c Larry Lee and SSgt Ronald Lindsey; (front row) SSgt John Leathers, McFarland and Rhame.

Commendations

(Continued from page 3)

1960 to June 17, 1962.

SMSgt Raymond H. Schulte, Detachment 8, 16th Weather squadron, 2d Weather group, from July 11, 1960 to October 26, 1962.

MSgt Donald R. Copeland, Headquarters AWS, from August 21, 1956 to October 15, 1962.

TSgt Charles E. Flanegan, 56th Weather Reconnaissance squadron, 9th Weather Reconnaissance group, from April 1, 1960 to July 23, 1962.

TSgt Herbert P. Scheer, Headquarters AWS, from October 17, 1958 to September 12, 1962.

TSgt William L. Larson, Air National Guard Jet Instrument School, Ellington AFB, Texas, from February 12, 1959 to July 20, 1961.

SSgt William J. Jackson, Headquarters AWS, from December 9, 1960 to October 26, 1962.

A1c Michael J. Mulloy, 56th Weather Reconnaissance squadron, 9th Weather Reconnaissance group, from August 22, 1960 to August 1, 1962.

Something Fishy

Maj. Richard A. McClurg, commander, Det. 16, 24th Weather squadron, Webb AFB, Texas, recently advertised in a daily bulletin for aquarium equipment, fish and advice and guidance in setting up an aquarium.

"We are dressing up the station and would like very much to build an aquarium into the wall," Major McClurg said.

Any assistance from tropical fish hobbyists would undoubtedly be appreciated. Pieces of equipment which could be used in the project include tanks, pumps, fish, everything. "We don't have a thing," the major concluded.

FIRST PLACE golf trophy is presented by Col. Charles W. Head jr., Air Base Group Commander, Webb AFB, Fla., to A1c Juan Longoria, Det. 16, 24th Weather squadron. Observing the presentation is Longoria's commanding officer, Maj. Richard A. McClurg.