

New RECON record established by AWS

SCOTT AFB, IL—Air Weather Service people validated \$9.2 million in savings during the fiscal year 1976 and 77 Resources Conservation (RECON) push. The figures were released by Capt.

Casimer Kacala, AWS RECON program administrator.

"This was the highest total ever achieved by a MAC Technical Service," Captain Kacala said, "... and exceeded the AWS goal by more than 384 per cent."

Brig. Gen. Berry W. Rowe, AWS commander, commended his people for the support given the program by saying, "I am appreciative of the broad-based support of the program as is reflected by the 480 management actions submitted and validated." He added, "Even more important is the fact that we have had an aggressive and creditable program."

Beginning in fiscal year 1977 the RECON program will not recognize savings of less than \$500. The change is expected to reduce the administrative costs of the program.

RECON Awards were presented to two weather units for achieving

Silver Leaves

AF picks 32 AWSers, seven former members

SCOTT AFB, IL—Air Weather Service was recently told that 32 of

AFGWC first termers visit USAF museum

OFFUTT AFB, NE—Air Force history became more of a reality to 25 first-term airmen of the Air Force Global Weather Central (AFGWC) recently. They were guests of the Wright-Patterson AFB, OH, Air Force Museum. It was the second such group to make the trip.

"I was very impressed," said A1C Linda Beneke, a computer programmer. "The way it was done up and all the exhibits they had were really something to see. I hope more (people) will get the chance to go."

Transportation for the trip was provided by Air National Guard and Air Reserve units in the Military Airlift Command Administrative Airlift Program. For some of the 25 AFGWC airmen the trip was their first ride in a military aircraft.

the most dollar savings in Air Weather Service for fiscal year 1976 and 77.

First place, for documented savings of more than \$1.8-million, went to the 1st Weather Wing (WW) and second place honors to the 7WW for more than \$1.6-million savings. The awards were presented to Cols. Joseph Tucker and Robert Fanning, winning unit commanders, by General Rowe during the AWS Commander's Conference here Nov. 1-2.

All AWS units exceeded their assigned goals and achieved a total savings of \$9.2-million dollars or 380 per cent of the combined AWS goal.

The savings puts Air Weather Service in first place among the Military Airlift Command's technical services with the Aerospace Rescue and Recovery Service and the Aerospace Audio Visual Service in second and third places respectively.

its majors and seven former members were selected for promotion to lieutenant colonel. The persons to be promoted are:

Air Weather Service Headquarters: William A. Albro, Arthur L. Boright, Donald B. Hodges, Larry W. Jobes, Ronald J. Kraus and Ardith N. Wagley.

1st Weather Wing: Lyman L. Kaiser, James Kerlin, Thomas L. Rish and Michael T. Schwitters.

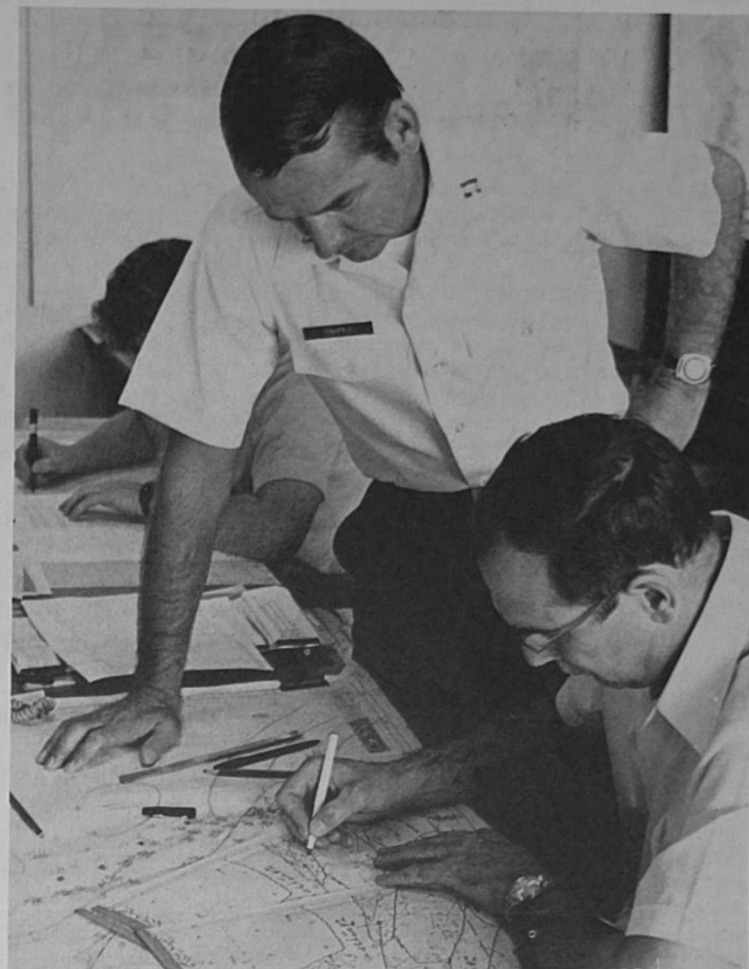
2WW: William C. Culver, Terrell D. McCorry and Alfred F. Scholz.

3WW: Daniel R. Gornell, William J. Sands, Victor F. Sartorius, John H. Taylor, Clement J. Thomas and James H. Wood.

5WW: Walter J. Harrison, Clark S. Pinder and Richard D. Stonemark.

Air Force Global Weather Central: John W. Kiercks, James F. Shunk, Robert E. Dettling, Ralph M. Hughes, James K. Lavin, David L. Nelson, Max H. Peek, Jerald L. Picantine and Bobby D. Underwood.

Former AWS members selected for promotion are Ed D. Heath, Charles A. Egolf, Edwin Dobkowski, John Klag, Francis House, John Upchurch and John J. Kelly Jr.



DATA ANALYSIS, by Brian Terrett, director of the Amberley Weather Service Office, is monitored by Capt. Earl R. Snipes, Detachment 4, 1st Weather Wing, Hickam AFB, HI, who was on temporary duty in Australia as weather liaison officer during Exercise Kangaroo II. The exercise tested Australian, New Zealand and U.S. sea and air forces for 22 days. (U.S. Air Force photo)

Weather units support Kangaroo II exercise

RAAF AMBERLEY, AUSTRALIA—When six F-111 fighter-bomber jets left Mountain Home AFB, ID, to take part in Exercise Kangaroo II here, men and women of the Air Weather Service made sure the pilots were weather wise along the way.

Exercise Kangaroo II took place between Oct. 6-27 and tested the combined sea and air forces of Australia, New Zealand, and the United States.

AWS' part in the event consisted of two actions. The Tactical

Weather Support Unit provided enroute forecasts for deployment and redeployment phases and Capt. Earl R. Snipes, a staff weather officer from Detachment 4, 1st Weather Wing, Hickam AFB, HI, was liaison officer between U.S. forces and local weather people. He helped with the provision of support given flight crews during briefings.

Also taking part in the exercise were aircraft and men of the 61st Military Airlift Support Wing, Hickam AFB.

INSIDE:

General cites good, bad	3
Senior advisor says, 'Now!'	3
Nightmare	5
Delegate below equator	6
What is 'gorp'?	8



Happy Holidays

(Hopefully, safe ones too)

Weather whys???

Q. I have been alerted for assignment to OL _____, 11WS, Alaska. May I be released from the assignment to go to forecaster school?

A. Your assignment must take precedence over your belated request for forecaster school. You were eligible to volunteer for forecaster school for quite some time before being selected for overseas. For personal reasons you chose not to volunteer for school. When a person is selected for overseas as the most eligible non-volunteer, it would be unfair to his peers to offer him the option of going to forecaster school in lieu of the assignment. Someone less eligible for overseas would then have to take the assignment. Such a policy might motivate people to go to forecaster school, but desire for career progression should be the prime motivator instead.

Q. I'm beginning to feel that no matter how good a job I do I'll never get promoted. Why this terrific slowdown in promotions? Are we headed for a no stripes situation?

A. Air Force enlisted authorization and strength have been cut almost in half and the number of people for each grade (E-9, one per cent, E-8, two per cent, etc.) is restricted. Attrition and voluntary release programs resulted in most separations being in the lower grades. Since promotion quotas are based on existing and future vacancies, AF-wide by grade, a slowdown was expected. However, we expect neither vast promotion quota increases nor do we expect a complete halt in them as we saw in the late 50s and early 60s in some specialties. Under the Weighted Airman Promotion System (WAPS) a promotion percentage is set for the Air Force and applied equally to all specialties. Also, we now have the Total Objective Plan for Career Airman Per-

sonnel (TOPCAP) which assures there will be quotas. As an example, from July 1976 until December 1977 there will be at least 40 TOPCAP separations in AWS making 222 promotions available to AF. Persons retiring prior to their TOPCAP date will free another 366 promotions. Beginning with promotion cycle 78A, selections to E-6 and E-7 will be done yearly and although this will not "open up" more quotas, it will lower cut-off scores. This will help persons short on time in grade and service, but who are willing to prepare for Specialty Knowledge Tests (SKT) and Promotion Fitness Examinations (PFE). Granted, tight promotions will be the "name of the game" for a while, but under WAPS, the opportunity is there—it's up to the individual.

Q. I recently met the board for below-the-zone promotion to E-4, senior airman. I didn't make it. The questions they asked were different from the ones they asked the other people. I felt they might be designed to keep people in tenant units from being selected. Is there any restriction or guidance on the type of questions they can ask?

A. The purpose of the board is to evaluate and compare eligibles in appearance, military bearing, mission knowledge, current events, supervisory or NCO responsibilities, communicative skills and evaluation of selection folder contents. In addition, guidelines state, "The board will be provided standard questions which will be asked each individual appearing before the board." If you believe you were subjected to prejudicial treatment or questions, report your concern to your supervisor and commander immediately. They can follow up your complaint and give you guidance on appropriate opinions.

Unit tops CFC goal by 185 per cent

TINKER AFB, OK—Detachment 1, 15th Weather Squadron here met its Combined Federal Campaign (CFC) goal—then met it again—then almost met it again. With an average of \$40 per person, Det. 1 ended its drive with 285 per

cent of its goal. The achievement earned more than satisfaction for the unit's people. MSgt. Edward L. Dean, unit CFC monitor, received special base recognition for the unit placing among the installation's top 10 units.

LET'S SWAP

Present wing: (Circle) 1 2 3 5 7 AFGWC
Rank/Name: _____
CAFSC: _____ Base: _____
Mail Address: _____
Want to go: _____

The eligibility rules for exchanging assignments are contained in AFR 39-11. If you meet the criteria and want to swap, fill coupon and send to: AWS/CMS, Scott AFB, IL, 62225.

Swap list

Three people want to swap assignments with other persons of the same specialty code. They are:

25150—A1C Brian M. Chapman, 130 Wright Park Manor, Rome, NY 13440, wants Castle AFB or Vandenberg AFB, CA, or anywhere in California.

30250—A1C Billy R. Miller, PSC Box 1815, McGuire AFB, NJ, wants Georgia or any southeastern state.

25150—A1C Carl J. Loerbs, PO Box T1828, Tinker AFB, OK 73145, wants Hill AFB, UT.

Personnel shorts

Did you know that?

* Air Force stopped random urinalysis? Future tests will be limited to persons suspected of drug abuse.

* Air Weather Service is developing a special three-week course for station chiefs? Present indications are that the course, to be given at Chanute AFB, IL, may be offered in late 1977.

* The military sweater is not authorized for use as an outer garment when out of doors?

* Some AWS detachments have combined their observer and forecaster meetings and seminars?

* Persons selected for an overseas tour who refuse to extend or reenlist to complete a full tour will be removed from the assignment—and are ineligible for promotion and must separate on the date of separation?

* Home Basing was favorably received during its first six month test? If the second test generates a similar response, the policy will become part of AFR 90-1.

* Persons having a general Airman Qualification Examination score of 80 or above or at least a year of college education do not have to complete the U.S. Armed Forces Institute Reading III test as a prerequisite to attend the NCO Academy?



AT THE CRACK of dawn weathermen go to the morning briefing at the Exercise Brave Shield XV Operations Center, Eglin AFB, FL. (U.S. Air Force photo)

Field exercises test AWSers too

EGLIN AFB, FL—Between Oct. 4-17 more than 50 Air Weather Service people of two separate wings supported the U.S. Readiness Command Joint Readiness Exercise Brave Shield XV.

The weather people were there to provide technical information which would aid field and air support commanders in decision making during the massive event.

Brave Shield XV involved more than 19,000 Army and Air Force people and the weather support force (WSF) commander was Col. James M. Dunn, 1st Weather Squadron commander.

According to a 1WS spokesman, "The focal point of the WFS was the Joint Task Force Deployed Forecast Unit which was established on the perimeter of Eglin Auxiliary Field Three. It was manned by 1WS people, augmented by 3WS and 5WS people."

The Deployed Forecast Unit (DFU) issued mission control forecasts each six hours, to include a 24-hour forecast and outlook for the objective area, plus terminal and route forecasts for tactical airlift. This was done following receipt of planning guidance from the Air Force Global Weather Central.

During the exercise the USAF Force weather team, manned by 3WS at Hurlburt Field, furnished backup for the DFU by taking the mission control forecast responsibilities.

Other weather units providing key support included Detachment 3, 5WS, Ft. Bragg, NC; and Det. 21, 5WS, Ft. Stewart, GA.

Highlight of the exercise was a night air assault by more than 1,800 men of the 82nd Airborne Division.

BRAVE SHIELD XIV

YAKIMA FIRING CENTER, WA—According to SSgt. James Prange, 14 men from Det. 6, 5WS, supported Exercise Brave Shield XIV after spending what was described as "a time of physical handicaps."

For a week and a half, small tents, cots, field desks, mess tents and outdoor toilet facilities replaced the "luxuries" found in base weather stations.

The exercise here tested the joint tactical ability of Army and Air Force units against an opposing force.

Weather support was provided to both sides by Det. 6 with three staff weather officers, two forecasters and nine observers working out of five locations on the firing center.

INDEPENDENCE II

FT. EUSTIS, VA—In a separate exercise, Independence II, and amid realignment of the former 16WS, people of Det. 13 here took part in the Army game.

The exercise involved the 7th Transportation Group and took place at Ft. Story, VA. Taking part in the exercise from Det. 13 were TSgt. Charles S. Irby and A1C John A. Meadow.

The men, using a tactical observing set, provided hourly surface observations around-the-clock and pibal observations twice each day.

Their duty performance earned a letter from the Army which, in part, said, "The (weather) team became invaluable when it developed that a high intensity storm was imminent. As commander of the team, TSgt. Charles S. Irby did an outstanding job. The information he provided influenced decisions made regarding beaches used and operational requirements."

"Special mention was made by the exercise chief umpire on the outstanding weather information available throughout the exercise."

Command line

1976:

'Tasks, triumphs'



Brig. Gen. Berry W. Rowe
AWS commander

Nineteen hundred seventy-six has been a significant year for Air Weather Service and I offer you my view of the events which made it so.

SINGLE CAREER LADDER—

We began the year faced with the task of making the Single Career Ladder for our airmen into a fully delineated program that our people could understand and support. Much needed to be done and we worked hard to get the conceptual and procedural details ironed out.

We vigorously pursued better coordination among the various actions that were underway and we moved out in areas where actions were lagging or nonexistent.

Increased emphasis has also been placed on getting the word out to you in the field. The net result is that we have now a solid, well documented and understood program. Your acceptance is evidenced by the fact that fiscal

year 1977 forecaster school quotas are filled for all but the last few classes.

COMEDS—

Less publicized but equally important is the Continental U.S. Meteorological Data System, or COMEDS, program. Despite the lack of fanfare, this weather communications upgrade has been one of the greatest steps forward of the entire year. It is certainly the most visible to those of you in the detachments—and one that many of you have told me is absolutely great.

AWDS—

One giant step we made has been totally transparent to most of AWS. We finally got a finished Automated Weather Distribution System, or AWDS, document which outlines requirements for modernization of our base weather stations.

This was a long, hard, joint effort by the Air Force Communi-

cations Service, Military Airlift Command, AWS and the weather wings. That document was something which had to be done before the Air Staff could even begin to work the problem.

PAPERWORK SLASH—

We have been quietly going about a task that has often been hoped for by all of us—that of making a dent in the problem of reducing paperwork at the detachment level. I am talking about numerous directive revisions that simplified procedures and gave our wings more management latitude. Such things as FMH-1B and the revisions to the Management Information System (MIS) aimed at reducing both local bookkeeping and the amount of information submitted up the chain. Admittedly, none of these was a "giant step for mankind," but every little bit helps.

RECON—

Our Resources Conservation

program was one of the more brilliant achievements of the past year, and one in which the rank and file of AWS can take a large measure of satisfaction. By your individual contributions, large and small, you helped save the U.S. Air Force \$9,194,200.

MORE—

I can't begin to include here all the actions, both here in the headquarters and at the wings, that deserve to be brought to your attention—space won't permit that. (I'm working on an alternate means to give you a sort of "Report to the Stockholders.") Nor can I give adequate coverage to the other side of the coin—those actions and programs where success continued to elude our grasp.

BEWARE—

I would be remiss if I didn't mention that one salient failure which weighs most heavily on my mind; that of safety. At press time, we had experienced 11 private

motor vehicle accidents (three fatalities); 15 sports and recreation accidents (one fatality); and a grand total of 36 military disabling injuries.

The personal suffering and anguish to loved ones far exceeds the loss of valuable human resources; but that loss has been substantial.

If I could have one wish for those remaining days of this Bicentennial Year (which includes the holiday season), it would be that each of you will THINK before you commit that unsafe act—which at least one per cent of you who read these words are about to commit within hours or minutes after you put this issue of the OBSERVER down.

May each person in AWS have the best holidays ever

Progression race on move in AWS

All forecaster school quotas are filled through September 1977. If a person is promoted to sergeant today, it will be nearly 10 months before he or she can be scheduled for school unless someone withdraws from a class. The current situation, if allowed to continue could seriously impair the career progression of our young NCOs.

In addition, a large percentage of our E-3s and E-4s (senior airmen) are anxious to get to forecaster school as soon as possible. We are also overmanned with observers in many units. As a result, many observers are underemployed and, in some instances, downright bored.

A change to AFM 50-5 allows sergeants (five-levels) to attend forecaster school and other seven-

level courses as long as they have (or obtain) two years retainability beyond their forecaster school graduation date.

In an effort to speed up the process for our airmen, more properly use them, and insure they are better prepared to enter forecaster school, Air Weather Service is starting a voluntary program, the Weather Technician Apprentice Program.

Under this program, I recommend our people submit an AWS Form 47, applying for forecaster school, as soon as they are promoted to senior airman. They should volunteer for a class date at least 15 months beyond their date of rank as senior airman. Normally a senior airman will become a sergeant upon obtaining one year

in grade, if he has filled all mandatory promotion requirements. Therefore, the extra three months will insure ample time to extend or reenlist to gain retainability, have orders cut after promotion to sergeant and provide time for an orderly move to forecaster school. This procedure doesn't violate Air Force directives, yet it will allow a person to enter school six to eight months sooner than did past procedures.

As soon as the person volunteers for forecaster school, he or she should begin the Career Development Course 25170. Wherever feasible, the volunteer should be shifted from observer duty to work with one or more certified forecasters. Training should be provided in map

analysis, radarscope interpretations, Skew-T analysis, basic forecast theory and procedures.

The trainee should be encouraged to enroll in math, physics and meteorology courses. Staff sergeants and above, who are preparing to enter forecaster school, should have priority for this program. Under no circumstance should the trainee be used solely as a "go-fer"—the purpose of the program is to prepare and train for the forecaster school.

Persons taking advantage of the program must maintain their proficiency in observer skills. Many of them will test as observers prior to completing forecaster school and, after graduation, all will test in both



CMSgt. Howard M. Bock
AWS senior enlisted advisor

aspects of the single career ladder.

For those persons eligible for forecaster school, and desire a class between now and September 1977, but have not applied, I urge you to send an AWS Form 47 immediately. The classes are full, but if anyone drops out, we will try to fit you in. If we can't do that, we will schedule you for classes farther downstream.

Brig. Gen. Berry W. Rowe
Commander, Air Weather Service
David F. Barr
Editor

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TODAY Vance AFB's observer work area, (above) complete with Continental United States Meteorological Data System terminal, has a completely different look. SrA Jeff Woods completes an hourly observation on the desk which holds a telephone and electrowriter. Behind him is the pilot-to-metro service (PMSV) counter. The PMSV console includes wind indicator, data clipboards, work area surface and storage area.

THE PRE-RENOVATION observer work area (right) in Vance AFB, OK's 1941 base weather station was complete with what is now outdated Continental United States Meteorological Teletype equipment. (U.S. Air Force photos)

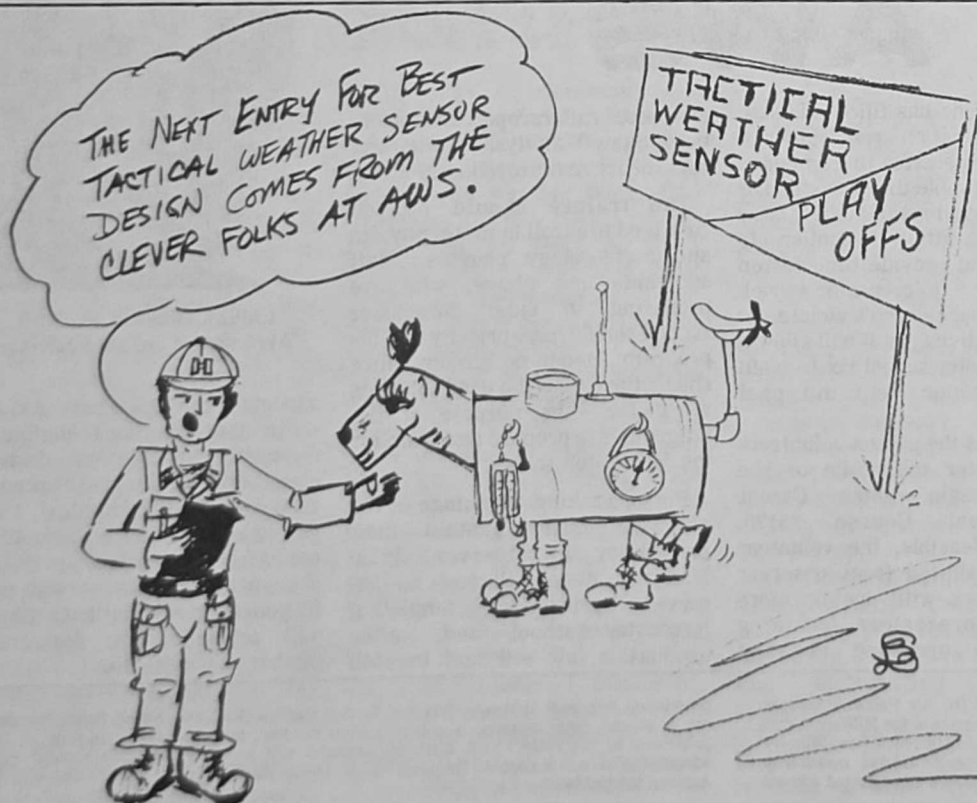


VANCE AFB, OK—Thanks to a tenacious commander, a creative NCO, a supervisory NCO and several hard workers, the Vance AFB weather station has a new look.

According to 1st Lt. Lloyd L. Anderson Jr., unit information officer at Detachment 15, 24th Weather Squadron here, the facelift of the 35-year-old station began last year with the installation of the Continental United States Meteorological Data System, or COMEDS, here was announced. At that time Maj. William T. Higham, detachment commander, justified the station's need to local officials.

Shortly thereafter SSgt. George J. Rasa designed the floor plan, work counters and wall arrangements. With the arrival of materials, MSgt. Gary L. Price coordinated and supervised the men who made changes in the station. The changes, according to Lieutenant Anderson, led Col. Loren Lorenzen 24WS commander, to praise the station's appearance and the efforts it took to do the job.

Station gets new appearance



(by Maj. Donald L. Best, Hq. AWS)

OBSERVATIONS

Cheney Award to MAC nurse

SCOTT AFB, IL (MNS)—Capt. Regina C. Aune, a Military Airlift Command flight nurse, received the 1975 Cheney Award at the Pentagon recently.

Despite the injuries she received when a C-5 Galaxy crash-landed while airlifting Vietnamese orphans and U.S. citizens from Saigon, Republic of Vietnam, she displayed outstanding heroism.

Although injured she helped rescue efforts until she reached the point of losing consciousness. Her injuries included a broken foot, broken leg, broken bone in her back, deep cuts in her left leg, arm and elbow.

Captain Aune, now a clinical nurse at Travis AFB, CA, has a nursing degree from Cleveland, OH's St. John's College. She was commissioned in 1972.

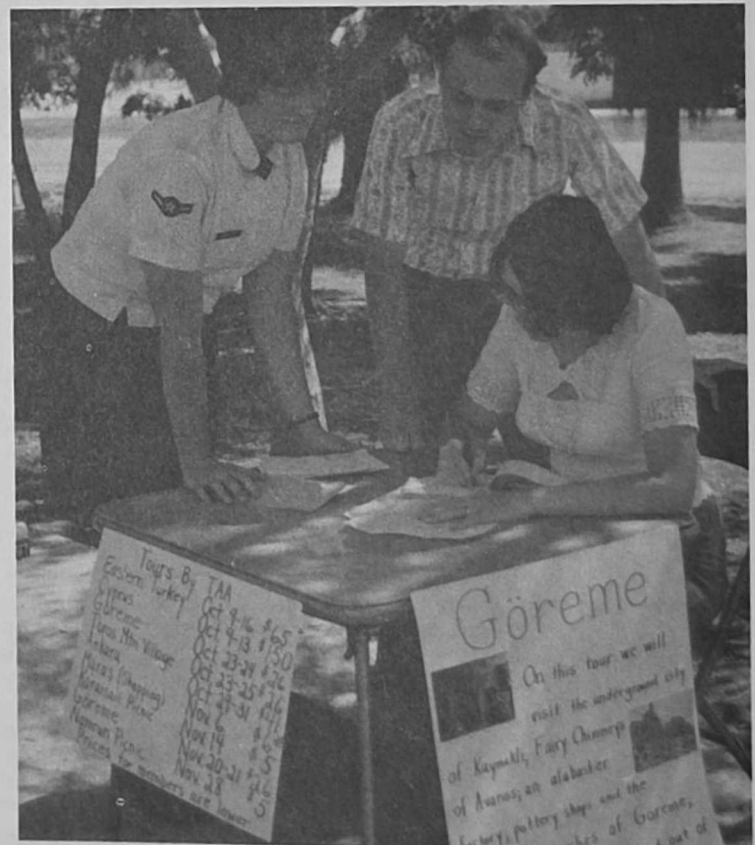
Physically fit or sloppy shape

WASHDC (AFNS) A recent physical fitness workshop of Air Staff and major command representatives concluded that the current Air Force fitness program needs revitalization. For this reason weather people, along with the rest of the Air Force, should begin getting in shape while the revitalization proposals are being considered by USAF officials.

Civilian health question goes

WASHDC (FNCS)—Civilians assigned to Air Weather Service, along with the rest of Civil Service, will no longer have to worry about the medical information blank when completing Standard Form 171.

According to a recent ruling by the Civil Service Commission (CSC) the question, "Do you have, or have you had, heart disease, a nervous breakdown, epilepsy, tuberculosis, or diabetes?" no longer will be on the form. They further advised that because older editions of the forms still have the question, the CSC requests all agencies to cross out the question on the form before giving it to an applicant. The change is designed to afford applicants greater privacy.

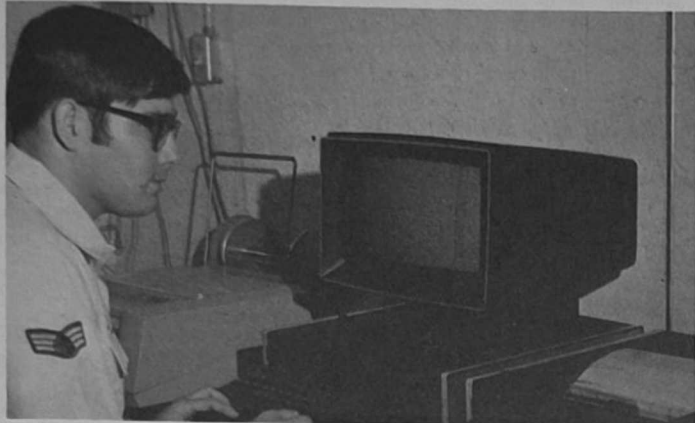


SIGNING UP for a trip to a Turkish tourist center is Amn. Donna M. Purcell. Helping her are SSgt. and Mrs. James M. Schilling, Tuslog Det. 2, Incirlik, Turkey. The Schillings are active in the Turkish-American Association, which is dedicated to improving relations between the two countries. They help meet this goal by educating newly arrived Americans in the customs and courtesies of Turkey. (U.S. Air Force photo)

From within

Detachment people big givers

COLUMBUS AFB, MS—When Col. Clarence E. Whinery, base commander here, accepted the Combined Federal Campaign check for \$588 from A1C Steven L. Lunning and A1C Steve J. Bracknell, he had 140 per cent of a weather detachment's goal for the drive. Detachment 2, 24th Weather Squadron here not only was one of the base's big givers, according to unit population, but was the first organization to reach its fair share goal.



RAPID RESPONSE to his request came to SrA Dan Vial, Detachment 1, 15th Weather Squadron, Tinker AFB, OK. The quick response (approximately eight seconds) is the result of Det. 1 being among the first units to use the newly activated continental United States meteorological data system, or COMEDS. (U.S. Air Force photo)

Officer history award candidate

SCOTT AFB, IL—Lt. Col. Leonard H. Smith, 5th Weather Wing executive officer, Langley AFB, VA, is the Air Weather Service 1976 candidate for the Air Force Wing Historian of the Year Award. The nomination stems from his compiling and editing the July 1-Dec. 31, 1975, wing history.

Colonel Smith's unit history was selected in competition with nine other AWS semi-annual wing histories. A highlight of the 5WW history, according to John F. Fuller, AWS historian, was the inclusion of more than 100 relevant supporting documents.

Colonel Smith's selection to represent AWS in the Air Force competition earned him a letter of commendation from Brig. Gen. Berry W. Rowe, AWS commander.

Seeks history hallway photos

OFFUTT AFB, NE—Air Force Global Weather Central (AFGWC) is establishing a History Hallway to preserve the history of AFGWC in photos. Capt. Bob McPeck, unit information officer, requests photos of people, equipment, facilities and visitors which Air Weather Service people, active or retired, may have in their personal files. All photos will be copied and returned to the owners. Interested persons should send their photos to AFGWC/OI, Offutt AFB, NE 68113.

Two gain 'best budget' award

OFFUTT AFB, NE—TSgt. Ellis Jones and 1st Lt. Ben Day, budget managers for the Air Force Global Weather Central here, returned as winners from the Military Airlift Command Comptroller Conference recently.

During the Scott AFB, IL, conference Col. Kenneth D. Leuthold, MAC comptroller, cited the weather pair for having the most accurate, timely and effective management of their function during the current fiscal year. For the accomplishment they received the MAC fiscal year 76 Category I Best Budget Performance Award.

Army men join AF Association

FEUCHT, GERMANY—When a detachment commander wants to recruit members for the Air Force Association (AFA), but works with the Army, what does he do?

Maj. Larry W. Wallace, Detachment 1, 7th Weather Squadron commander, found a way—he signed up Army men. Major Wallace recently acquired four AFA members from his Air Force unit then signed up 22 Army people for a total of 26 new members.

Now the group is waiting for official establishment of an AFA chapter at Nuremberg.

Nightmare leaves lesson

by

Capt. Richard L. Holden
Det. 75, 3WS, Hurlburt Fld, FL

How are your instincts?

Take driving, for instance. An erroneous assumption while driving could have hazardous, even deadly, results. Let me give you an example by citing a recent personal experience. It happened just last night, in fact, and I write this to preserve the lesson from it.

It had been a tiresome week, and all I could think of after work was the enjoyment a short nap would bring before my drive to a friend's house for an evening of card playing, which was to start at 7 p.m.

I set the alarm for 6:30 p.m. and dozed off while watching the evening news.

The scheduled nap time passed swiftly, but the alarm failed to sound. I finally woke up to someone's hysterical gasps of victory on some television quiz show.

I slipped into a shirt and trousers and scrambled out of the house and into my dependable old car. It was normally a 20 minute drive to my friend's house, but with traffic and stop lights on my side, I figured I could shave off a few minutes. I would have to stretch a few traffic rules here and there, but I had gotten by with that before. In fact, I had never, to this day, even received a speeding ticket or had an accident. I was what is called "a safe driver."

The traffic was definitely on my side; very few cars were on the road. I considered the time of evening and recalled that police cars were normally parked at a nearby roadside restaurant at this time. Assuming this night was not different, I stretched the speed limit by 10 or 15 miles per hour until I reached the restaurant. As I passed it I saw my hunch was correct. I had slowed down and sure enough, two empty police cars were parked outside.

The small country stretch ahead was my favorite portion of the route. The only speed trap I recalled here was on the outskirts of the city limits before the actual stretch began. I stayed within the

speed limit until I passed the speed gun I knew would be there.

Slowly I accelerated until I was over the first hill. Then I decided to make the next few minutes count.

I felt lucky even as the speedometer moved to 65 then to 70. I glided around an ever-so-slight curve in the road—when it happened.

It was over before I could even think of stopping. All I saw were the spokes on bicycle wheels followed by a young, terrified face, looking into my headlights. He was crossing the road and I hit him broadside.

Who would have expected a boy to be on a bicycle at night out here in the middle of nowhere? Why did he try to cross the road when he should have seen and heard my car coming?

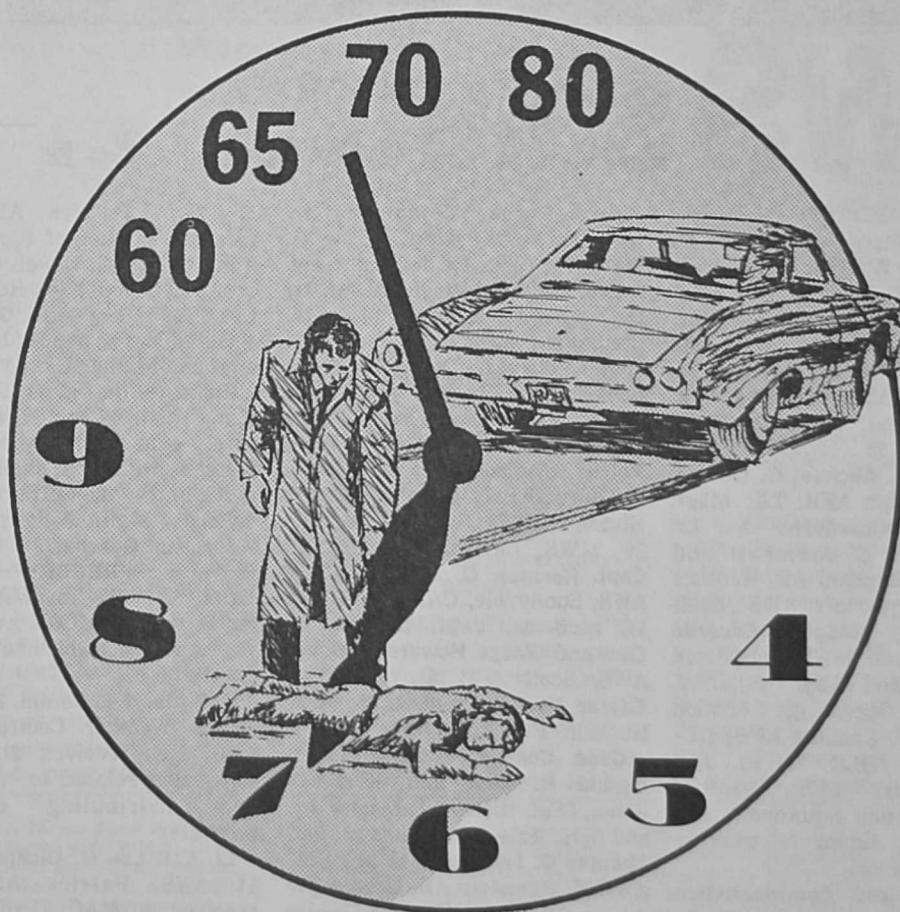
My mind ached and hands began shaking violently as I felt my foot jamming against the brake pedal. I could scarcely find the key to shut off the engine.

Then—dead silence—except for my own desperate breathing. I got my flashlight, stepped out of the car and, in shock, slowly walked back down the road.

The rays from my light centered on the catastrophe. It lay without motion—directly in the path I had just driven. I closed my eyes and felt hot tears running down my cheeks. Then, falling to my knees on the asphalt, I begged God to not let it be true; yet, I knew there was no hope.

The silence of the night was broken by a sudden spontaneous loud noise. I opened my eyes in time to see the local news team as they said, "Good night" on my television set. I turned toward the noisy alarm clock, which showed the time to be 6:30 p.m. and shut it off. My hand shook as I smiled in gratitude for my second chance.

Then, before leaving "once again" for my friend's house, I closed my eyes and prayed that I would make no careless assumptions on the drive ahead. (Edited for the AWS OBSERVER from the SOF HI-LITES)



[Drawn by John Milford]

Ten flags: Pohle delegate to CIMFA meet

SANTIAGO, CHILE—Lt. Col. John F. Pohle, Detachment 25, 5th Weather Wing, Howard AFB, CZ, commander, was the U.S. Air Force delegate to the eighth reunion of the Inter-American Committee for Meteorology of the American Air Forces (CIMFA) recently.

The committee forms a part of the cooperative system of the chiefs of the American Air Forces. CIMFA has the mission to provide technical meteorological advice to the Conference of the Chiefs of the American Air Forces. Further, as permitted by the organization's regulations, it also coordinates and standardizes the various American Air Force's weather activities.

Colonel Pohle demonstrated the TMQ-22 Meteorological Measuring Set and spoke on the concept of mobile weather teams and equipment to support relief efforts during or after natural disasters. The demonstration was televised over three national Chilean networks.

Other nations represented at the committee meeting were: Columbia, Peru, Venezuela, Argentina, Brazil, Ecuador, Dominican Republic and Uruguay.



AWS salutes...

MEDALS

Legion of Merit: Col. James M. Dunn, 1st Weather Squadron, MacDill AFB, FL.

Meritorious Service Medal: Oak Leaf Cluster (OLC) Col. John J. Elliff and Lt. Col. Charles M. McDonald, 7WS, Heidelberg, Germany; Maj. Ernie R. Dash, Detachment 75, 3WS, Hurlburt Fld, FL; Maj. Michael G. Olivier, 24WS, Randolph AFB, TX; MSgt. Karl R. Hammerdorfer Jr., Lt. Cols. James C. Marshall and William E. Buchan, Air Weather Service headquarters (AWS), Scott AFB, IL; CMSgt. Eduardo Hidrogo, Det. 10, 25WS, Bergstrom AFB, TX; and TSgt. Billy W. McLemore, Operating Location (OL)-C, AWS, Chanute AFB, IL.

Air Medal (OLC) 1st Lt. Joel D. Bonewitz, 54th Weather Reconnaissance Squadron, Andersen AFB, Guam (a weather officer instructor).

Joint Services Commendation Medal: Col. Duane M. Griesbach, AWS, Scott AFB, IL.

Air Force Commendation Medal: (two OLC) TSgt. Rickey D. Masters, 7WS, Heidelberg, Germany; and TSgt. Nevin C. Swartz, Det. 40, 2nd Weather Wing, RAF Croughton, UK. (OLC) MSgt. Albert Chavez, Det. 29, 25WS, Buckley ANGB, CO; and TSgt. Barry E. Golembiewski, 2WW, Kapaun Bks, Germany. TSgt. Robert Madison, Det. 10, 7WW, McGuire AFB, NJ; SSgt. Robert H. Hinson and TSgt. James Reif, Det. 20, 24WS, Laughlin AFB, TX; Capt. Norman D. Baker, Det. 3, AWS, Sunnyvale, CA; Maj. Glenn W. McBride, Capt. Douglas B. Cone and CMSgt. Howard M. Bock, AWS, Scott AFB, IL; and Sgt. Caesar M. Gay Jr., Det. 75, 3WS, Hurlburt Fld, FL.

Good Conduct Medal: TSgts. Gerald R. Reas and Jerril L. Jones, SSgt. Richard T. Massey Jr., and Sgts. Robert C. Means Jr. and Thomas G. Swartzlander Jr., Det. 2, 2WW, Ramstein AB, Germany.

SPECIAL HONORS
MSgt. Ronald A. Gearhart, Det.

11, 2WS, Patrick AFB, FL, received a letter of appreciation from the local Naval Ordnance Test Unit commander. Recognition was for Sergeant Gearhart's outstanding "no notice" briefing of a group of senior United Kingdom visitors to the Cape Canaveral Range Control Center. The visitors openly said they were "... impressed with the facility, and particularly the calibre of individuals staffing its positions" —Sergeant Gearhart.

RECON

Det. 5, 7WW, Dover AFB, DE, received two RECON awards for six suggestions which saved more than \$22,000.

A1C Albert L. Samm, Air Force Global Weather Central, Offutt AFB, NE, received \$135 for a suggestion related to monitoring and distributing computer products.

Lt. Col. Lee G. Dickinson, Det. 11, 2WS, Patrick AFB, FL, received a MAC Certificate of Achievement for RECON actions.

Lt. Col. David Ferruzza received \$25 from the suggestion program.

With a savings of \$740,400 the 2WW achieved 283 per cent of its fiscal year 76 and 7T RECON goal. Individual certificates of achievement went to (all in 2WW): Maj. Edward Gibeau, TSgt. Otis Griffin, 2WW, Kapaun Bks, Germany; Capt. Richard Kaeser, Det. 11, Torrejon AB, Spain; SMSgt. Paul Persian, Det. 51, Wiesbaden AB, Germany; and Capt. Robert Wachtman, Det. 4, 7WS, Schwaebisch Hall, Germany. Certificates for 31WS went to: TSgt. Donald Coppedge, Det. 20, Sembach AB, Germany; Capt. John Holdner, Det. 16, Zaragoza AB, Spain; TSgt. Michael Silverman, Det. 4, RAF Bentwaters, UK; and CMSgt. Robert Zimmerman and TSgt. Donald Carter, 7WS, Heidelberg, Germany.

EDUCATION

From Southern Illinois University 1st Lt. Robert A. Frederick, Det. 5, 7WW, Dover AFB, DE, and Capt. Robert L.

Defense Meteorological Satellite Program which are contained in the SCAP. The procedures are geared to insure that present Air Force policies and regulations are met.

LGSS also insures, with the coordination of Headquarters MAC and Sacramento ALC, that AWS chief of maintenance complexes have sufficient levels of spare repair cycle and equipment items available to support approximately 300 weather units.

LGSE insures that appropriate quantities of equipment are maintained in accordance with applicable table of authorizations plus coordinating any proposed move of equipment, including tactical weather sets, with the item manager at Sacramento when asked for by AWS Operations. The command military construction program or MCP is also monitored by LGSE.

LGSE is the program manager for agreements, which include all international, interservice support, and host enant support agreements.

It also manages the Thule (Greenland) weather statement of work and the logistics force packaging system.

Last, the AWS program administrator for the resources conservation program is also part of LGS.

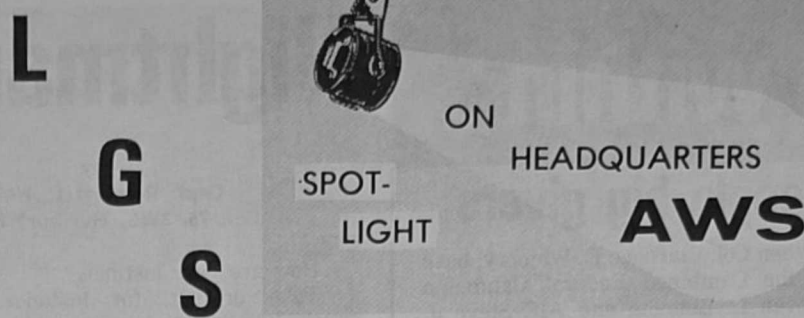
Eggum, Det. 14, 7WW, Norton AFB, CA, received masters degrees in business administration.

From Webster College masters degrees went to Capt. Jerry M. Christian and Michael S. Risch, OL-A, Det. 12, 7WW, Olathe, KS; Samuel P. Williamson, Det. 3, 7WW, Charleston AFB, SC; and Tom Utley Jr., Det. 3, 5WS, Ft. Bragg, NC.

TSgt. James O. Dewberry, Det. 3, 7WW, Charleston AFB, SC, completed requirements for the Community College of the Air Force (CCAF) certificate in meteorology. Also completing CCAF is MSgt. Eugene W. Thompson, Det. 22, 26WS, Carswell AFB, TX.

TSgt. Andrew J. Pernik, Det. 12, 7WW, Richards-Gebaur AFB, MO, and SSgt. Anthony J. Klesen Jr., Det. 2, 5WS, Ft. Belvoir, VA, gained CCAF certificates in meteorological equipment technology. Sergeant Klesen also

(Continued on page 7)



by
Capt.
David
M.
Morrison

Winter causes problems in Korea

by John Fuller
AWS Historian

In 1950 bitter lessons in winter warfare were relearned when, on Nov. 25, North Koreans, heavily reinforced by Chinese Communists, launched a counterattack against United Nations Command forces in North Korea.

Weather conditions during the next two weeks were dominated by cold which flowed from Siberia across Manchuria into North Korea. The cold flow plunged temperatures to as low as minus 25 degrees amid high winds and blowing snow.

Standard-issue equipment malfunctioned in such weather. Lubricants normally used on weapons became so thick and sticky the men began to use various hair oils and even then, were careful to wipe the weapons so just a trace of oil remained. The cold caused instances where soldiers had to use their frozen weapons as clubs to fight off the enemy.

Weather, in North Korea in 1950, caused problems which were rarely encountered by any army

before. Firing rates were reduced because artillery pieces took longer to return to battery. Mortar base plates warped or cracked. Grenade pins stuck. The 3.5-inch rockets misfired because the propellant would not burn completely. Communications broke down because radio batteries froze. Mechanized vehicles mortified by cold if not kept running or frequently started.

The cold, in the country which earned the nickname "Frozen Chosen," almost seemed to be a case of nature in revolt. Ordinary entrenching tools could not penetrate the rock-hard, frozen ground, and grenades or dynamite broke it into solid chunks. It even defied bulldozers—rooter teeth welded to the dozer blades broke off and when lubricant couldn't keep the earth from freezing on the blades, jackhammers had to be used to chip it off.

Conditions were intolerable for humans. Stockings froze to feet and when they were removed the skin came away too. Although bedrolls were lost in the fighting, even the men who still had them risked freezing if they slept.

Frostbite and shock skyrocketed. To overcome shock, men were treated in special warmup tents with stimulants to accelerate depressed breathing. Once over the initial shock they suffered intestinal disorders caused by eating frozen rations.

Blood froze before it coagulated. Water-soluble medicines and blood plasma froze and burst their bottles. Medics, who had to wear gloves, could not change dressings—and to remove the dressings exposed the patient to freezing.

"I would estimate," one officer reported, "... that our combat operation hours were reduced at least 25 per cent by the effort required to keep alive in winter weather." Another estimated that a rifleman lost two per cent efficiency for each degree of temperature below zero.

Morale suffered because, under the intense pressure of the elements and the enemy, the will to fight was all but crushed by man's basic instinct to survive—to just stay alive.

Such was the Korean War of 1950—and its damnable weather.



COLD is the enemy of weathermen serving where temperatures are or get below freezing, such as at the North and South Poles, Greenland, Alaska, and during the Korean War. This weatherman is plagued by frost from his own breath frozen to his clothes, mustache and even his eyebrows. That was how it was in the 1950s. (U.S. Air Force photo, AWS historian)

AWS salutes (Continued from page 6)

received a bachelors degree in business management through Southwest Texas State University.

MSgt. Arthur O. Johnson, Det. 10, 2WS, Eglin AFB, FL, received a bachelors degree in management from Troy State University.

SERVICE SCHOOLS

MSgt. Manley Biggerstaff, Det. 4, 7WS, Schwaebisch Hall, Germany, completed the Senior NCO Academy (NCOA) by correspondence.

TSgt. Larry L. Calhoun, Det. 10, 7WS, Kitzbach, Germany, was 17 in his 129-member NCOA class.

Maj. Richard Breese, Det. 21, 2WW, Kindsbach, Germany, completed the Air Command and Staff College, as did **Capt. Thomas E. Pratt**, Det. 6, 2WW, Stuttgart, Germany.

TSgt. James D. Carter, AWS, Scott AFB, IL, completed the NCOA.

MSgt. James M. Rischer, Det. 2, 2WW, Ramstein AB, Germany, completed the Air Force Leadership and Management Development Seminar there.

Sgt. Dennis D. Walker, Det. 11, 12WS, Luke AFB, AZ, earned the Academic Achievement Award and was an honor graduate from the NCO Leadership School;

SSgt. James Wallace, Det. 20, 24WS, Laughlin AFB, TX, earned the Commandant's Award from the same type school.

Maj. Winston Crandall, Det. 1, 2WS, WPAFB, OH, and **Maj. Ann B. Dedmond**, Det. 12, 7WW, Richards-Gebaur AFB, MO, completed the Industrial College of the Armed Forces by correspondence.

UNIT HONORS

Quarterly honors at Det. 75, 3WS, Hurlburt Fld, FL, went to Outstanding NCO Weather Specialist **Sgt. Terrill W. Hughes** and Outstanding Airman Weather Specialist **A1C Kathy A. Blouin**.

A1C Wentworth H. Newman, an administrative specialist, is Headquarters 1WW's First Term Airman of the Quarter at Hickam AFB, HI.

A1C Bruce W. Swartz is Det. 8, 30WS, Kadena AB, Japan's First Term Airman of the Quarter (AOQ).

Sgt. Larry Brukardt, Det. 8, 31WS, Zweibrücken AB, Germany, is the 2WW's NCO of the Quarter (NCOQ).

SSgt. James R. Lohman, Det. 12, 25WS, George AFB, CA, is the 5WW Maintenance Man of the Year (1975).

At Det. 13, 5WS, Ft. Eustis, VA, **SSgt. John T. Dunick** was chosen NCOQ and **SrA Michael D. Waldemer** as AOQ.

SSgt. Ira C. Lunt, 2WW, is AWS' 1975 Primary Duty Safety NCO of the Year.

PROMOTIONS

To captain: **Michael J. McGlynn**, Det. 40, 2WW, RAF Croughton, UK.

To first lieutenant: **David M. Praner**, **Richard P. Reeve** and **Richard St. Pierre**, Det. 75, 3WS,

Hurlburt Fld, FL; **Mary R. Webb**, Det. 11, 25WS, Cannon AFB, NM; and **Steven L. Nelson**, Det. 17, 9WS, Ellsworth AFB, SD.

To master sergeant: **Roland D. Munson**, Det. 11, 2WS, Patrick AFB, FL; **William R. Newberry**, Det. 8, 26WS, Griffiss AFB, NY; and **Carle H. Clarke**, Det. 14, 25WS, Holloman AFB, NM.

To technical sergeant: **Paul D. Bradley**, Det. 18, 30WS, Yong San, Korea; **Robert Madison**, Det. 10, 7WW, McGuire AFB, NJ; and **Elmer Kirkman**, Det. 2, 5WS, Ft. Belvoir, VA.

To staff sergeant: **Leopoldo A. Viernes**, Det. 10, 25WS, Clark AB, RP; **Kenneth W. Nemes Jr.**, Det. 1, 30WS, Yokota AB, Japan; and **Norman F. Riche III**, Det. 22, 26WS, Carswell AFB, TX.

To senior airman: **Joanne B. Brezon** and **Vivian L. Stine**, Det. 21, 2WW, Kindsbach, Germany; **David E. Lane**, Det. 17, 9WS, Ellsworth AFB, SD; **Terry L. Gerber**, Det. 8, 26WS, Griffiss AFB, NY; **Marie L. Aubrey**, Det. 2, 7WW, Travis AFB, CA; **Bradley R. Beck**, OL-A, Det. 2, 7WS, Fulda, Germany; **Robert L. Pounds Jr.**, Det. 12, 7WS, Finthen, Germany; and **Mark V. Currin** and **Edward R. Roberson Jr.**, Det. 22, 26WS, Carswell AFB, TX.

To airman first class: **Boyd L. Bermel**, Det. 8, 5WS, Ft. Riley, KS; **Timothy L. Nelson** and **Stephen J. Carmel**, Det. 11, 25WS, Cannon AFB, NM; **Michele R. Quinn**, 2WW, Kapaun Bks, Germany; **Mark C. Reed**, Det. 2, 7WS, Hanau, Germany; **Christian W. Sturm**, Det. 7, 7WS, Grafenwoehr, Germany; and **Joseph A. Fatur**, Det. 2, 5WS, Ft. Belvoir, VA.

—COMMAND ASSIGNMENTS—
Lt. Col. Robert C. Sabin now

commands Det. 18, 30WS, Yong San, Korea.

Capt. Dennis W. Newsom succeeded **Capt. Robert A. Wachtman** as commander of OL-F, 2WW, Hellenikon AB, Greece.

MARRIAGES

A1C Stephen A. Lord, Det. 3, 5WS, Ft. Bragg, NC, married **Susan Davis**, Sept. 4, at Altoona, PA.

On Sept. 23, at Howard AB, CZ, **SrA Mike Wright** married **Dalys Morales**; and **Sgt. Homer Stevens** married **Felicia De Leon Nunez**.

Sgts. Donald W. Shelton and **Cheryl Hart** were married Sept. 23, at Pope AFB, NC, where Donald is a member of Det. 3, 5WS at nearby Ft. Bragg.

A1C Sernia M. Gauthier, Det. 2, 2WW, Ramstein AB, Germany, was married to **A1C Glenn Thomason**, of the base, in a German ceremony, Aug. 20.

SSgt. Daniel J. Brees, Det. 3, 5WS, Ft. Bragg, NC, married **Jeanne Shreffler**, Oct. 2, at Ambler, PA.

A1C Steven P. Taylor, Det. 7, 5WS, Ft. Ord, CA, married **A1C Deborah L. Hooke**, Det. 29, 25WS, Buckley ANGB, CO, at Atlanta, GA, Oct. 2.

A1C Deborah A. Hassel was married to **SSgt. David N. Runyan**, Sept. 18. Both are members, 24WS, Laughlin AFB, TX.

SSgt. Tim Powell married 1st Lt. **Merrilee A. Bedney**, Aug. 20. Both are members, 24WS, Laughlin AFB, TX.

BIRTHS

Capt. and Mrs. James W. Creech, son, **Dustin Ashley**, Oct. 19. Father with 2WW, Kapaun Bks, Germany.

Sgt. and Mrs. James Hudgens,

son, name not provided, Oct. 21. Father with Det. 11, 7WS, Coleman Bks, Germany.

2nd Lt. and Mrs. Richard Kovach, son **Kenneth James**, date not provided. Father a forecaster, Det. 8, 26WS, Griffiss AFB, NY.

Capt. and Mrs. James C. Weyman, daughter, **Rachel Edith**, Oct. 1. Father with 7WS, Heidelberg, Germany.

Maj. and Mrs. James T. Moore, daughter, **Jennifer Anne**, Oct. 11. Father with Det. 3, AWS, Sunnysvale, CA.

A1C and Mrs. Ronald E. Ede, son, **Derrick Erin**, Oct. 16. Father with Det. 10, 2WS, Eglin AFB, FL.

SSgt. and Mrs. Cecil I. Smith, son, **Laurence Michael**, Aug. 26. Father with Det. 11, 25WS, Cannon AFB, NM.

SSgt. and Mrs. Donnel C. Wingate, son, **David Nathaniel**, Oct. 27. Father with Det. 2, 7WW, Travis AFB, CA.

SSgt. and Mrs. James Prange, daughter, **Jamie Lee**, Oct. 15. Father with Det. 6, 5WS, Ft. Lewis, WA.

A1C and Mrs. Gary C. Keller, son, **Jonathan**, Oct. 8. Father an observer with Det. 3, 5WS, Ft. Bragg, NC.

REENLISTMENTS

TSgt. George M. Scott, Det. 75, 3WS, Hurlburt Fld, FL; **SrA Carroll A. Owens**, Det. 10, 2WS, Eglin AFB, FL; **TSgt. James Reif**, Det. 20, 24WS, Laughlin AFB, TX; and **MSgt. Douglas B. Atkinson**, Det. 3, 7WS, Heidelberg, Germany.

RETIREMENTS

CMSgt. Eduardo Hidrogo, Det. 10, 25WS, Clark AB, RP.
Helene B. Henderson, after 20 years federal service, at Chanute Technical Training Center, IL.

In memoriam

Sgt. Russell C. Farquhar, a 23-year-old member of Detachment 1, 7th Weather Squadron, Feucht, Germany, was killed in an automobile accident Oct. 25, 1976. He is survived by his widow, two sons and his parents.

Sports shorts

Slowpitch team takes tourney

OFFUTT AFB, NE—The Air Force Global Weather Central slowpitch softball team won the base championship here with five straight victories. The wins came in a double elimination playoff tourney and team members included Jim Liberda, Warren George, Steve Green, Bobby McPeck, Jimmie White and Dick Pruitt. Other members were: Bill Smith, Frank Globaker, Ron Townsend, Blair Abshire, Paul Anderson, Jim Martens, Jim Calihan, Larry Bailey, Al Ramsay, Dan Reeves, Dan Watkins and Howard Alston.

Davis leads bowling league

STUTTGART, GERMANY—Richard J. Davis, Detachment 6, 2nd Weather Wing, here, is the new president of the Southwest Division of the Army Classic Traveling Bowling League.

Adsit coaches all-stars

HEIDELBERG, GERMANY—Ronald H. Adsit, 7th Weather Squadron, here, received a Certificate of Appreciation from the Heidelberg Community for his part in American Youth major league baseball. During the season Ron took part in the diamond action as an all-star team coach.

Score earns gift, trophy, title

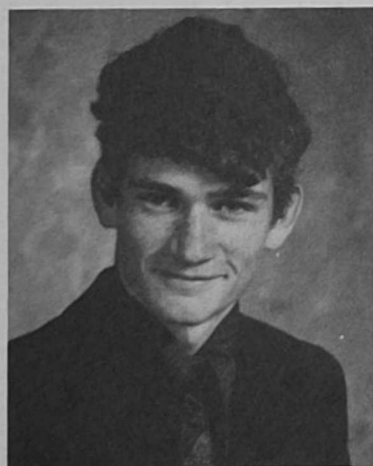
WPAFB, OH—Joe Small, 15th Weather Squadron here, is the new champion of the Twin Base Golf Club Low-Net Tournament. His net score of 61 earned him a \$10 gift certificate and a trophy as well as the title.

AWSers in record class

SCOTT AFB, IL (MNS)—The Military Airlift Command NCO Academy recently graduated its 20,000th student, TSgt. James W. Mayor Jr., of Clark AB, RP.

In the same class were six Air Weather Service men, two of whom were distinguished graduates (DG). The AWS graduates are TSgt. Homer D. Beddo (DG), Detachment 11, 25th Weather Squadron, Cannon AFB, NM;

MSgt. Lee W. Horton (DG), Det. 3, 1WW, Yokota AB, Japan; TSgt. James D. Carter, AWS, Scott AFB, IL; TSgt. John H. Depew, Det. 3 3WS, Myrtle Beach AFB, SC; TSgt. George R.N. Hano-hano, 6WS, Tinker AFB, OK; MSgt. John D. Mann, Air Force Global Weather Central, Offutt AFB, NE, and MSgt. Elbert J. Vanden Brock, 11WS Elmendorf AFB, AK.



PLEBE—Russell Averill, son of Maj. (ret.) and Mrs. Harry Averill, of Alexander, NC, has received an appointment to the U.S. Naval Academy at Annapolis, MD. Maj. Averill is with the Air Force Environmental Technical Applications Center, Asheville, NC.

Five give in bicentennial blood drive

L.G. HANSCOM AFB, MA—Five people associated with Operating Location E, 2nd Weather Squadron here, donated 15 pints of blood to help meet the base's bicentennial blood drive goal of 1,776 pints. The five who gave blood during the year long drive were Maj. Clarence Givens, Capt. Richard Durham and Capt. Paul Demmert, Leslie Demmert, and Dr. Dick Hendl. Tina Durham worked as a Red Cross volunteer assisting donors during the drive.

Two survive on 'gorp' food

by Capt. Paul F. Demmert
OL-E, 2WS I.O. Hanscom AFB, MA

Earlier this year two Air Weather Service officers were forced to take drastic action to survive several days of subzero weather in Greenland. They had nothing to eat but "gorp," a combination of snacks, for four days.

The officers are Maj. (now lieutenant colonel) Lee Snyder, Air Force Geophysics Laboratory, Hanscom AFB, MA, and Capt. Richard Durham, now attending Squadron Officers School, Maxwell AFB, AL, from Operating Location E, 2nd Weather Squadron, Hanscom AFB. The men went to Greenland by their own design after months of planning. Their plans called for a two week vacation trip to Greenland to photograph the Aurora Borealis—the Northern Lights.

Greenland was chosen because it has the desired characteristics of an auroral observation site: northern latitude, unpolluted skies and an absence of man-made surface lighting. In Greenland, near Narssarsuaq, a large unpopulated plain was chosen as the photography camp site.

After flying space available aboard a C-141 flight from McGuire AFB, NJ, to Sondrestrom, Greenland, the pair went by C-130 to Narssarsuaq.

A base camp was established away from the small population center but then the Greenland weather began to challenge the men.

Earlier they had heard of the fierce weather on Greenland so the men took several precautions. Captain Durham's wife gave him a new Arctic sleeping bag and Major Snyder brought snowshoes, which

turned out to be useless for hiking over the local icecap.

Captain Durham tested his camera at home by leaving it in his refrigerator several hours for "cold soak" then using it. Major Snyder brought a portable stove for cooking meals but a substitute fuel failed to ignite in the extreme cold leaving their food supplies inedible.

To survive they ate "gorp," a mixture of raisins, cashew nuts, chocolate chips and sunflower seeds.

Despite the cold and food problems the men saw "... spectacular aurora and we shot (photographed some beautifully colored displays."

Nine days later, after three 3-day delays for transportation, the men returned to McGuire AFB.

The entire expedition took 12 days and, according to both men, was a true adventure.

Hidden here are 50 words related to weather terms or equipment. The words may read up, down, forward, backward or diagonally, but are in a straight line and do not skip letters. Dashes are not included. Letters

may be used in more than one word. Upon finding a word, circle it and cross it off the list. Not all 50 words in the puzzle are in the list below so try to find all 50 even without full listing.

L I G H T N I N G R E T E M O R A B L A I R U C R E M
Q E C A F R U S R X V R L B R A W I N S O N D E C L E
L R W I N D W E A I P A A Z E S I S O N G O R P L C C
E A B G O F T O S C R N B G T H E O D O L I T E I R I
H I C U V U W I J H E S I B I T W E K S D K R V M O V
A N K I P Z B Y R A S M P A R C Z Q F U I O R J A C R
I Q O M G I B E D R S I F R W C I R R U S E P F T K E
R U O I L O T H J T U S N O O L O N N P S H L R O E S
T C V I T E L X Z S R S O G R N O O G R E U O E L T O
E Q T D M A W O M G E O O R T E S L E D M M T N O S R
R Y D I G O V H R R R M H A C Q C H P M I I T A G O T
U N T I N O O R E E V E P P E R T A W K N D I C Y N E
T L J S E O F T E C T T Y H L A A B S R A I N I S D M
A O O O B U E M O S K E T I E J S D Q T T T G R L E O
R U I B R M T N S T B R M W L O U K A G I Y O R L L T
E D S A O I R E T E M O R H C Y S P L R O N V U A E T
P R M R T O R N A D O I O N B A L L O O N H G H U E O
M O A S K E A S T R A T O C U M U L U S R G A E Q N L
E B T C T E L E T Y P E L I M I S C A F A P T I S I I
T A N M A D R O P S O N D E J N O I T A Z I R O L O P

Air
Altimeter
Balloon
Barograph
Barometer
Charts
Cirrus
Climatology
Computer
Dissemination
Dropsonde
Electrowriter
Facsimile
Fog
Forecasting

Front
Hail
Humidity
Hurricane
Icing
Isobars
Lightning
Meteorological
Observation
Pibal
Polarization
Pressure
Prognosis
Psychrometer
Plotting

Radar
Rain
Rawinsonde
Rocketsonde
Skew-T
Snow
Squalls
Surface
Teletype
Temperature
Theodolite
Tornado
Typhoon
Visibility
Wind

(Submitted by SSgt. L.B. Goff, Det. 1, 15 WS, Tinker AFB, OK)