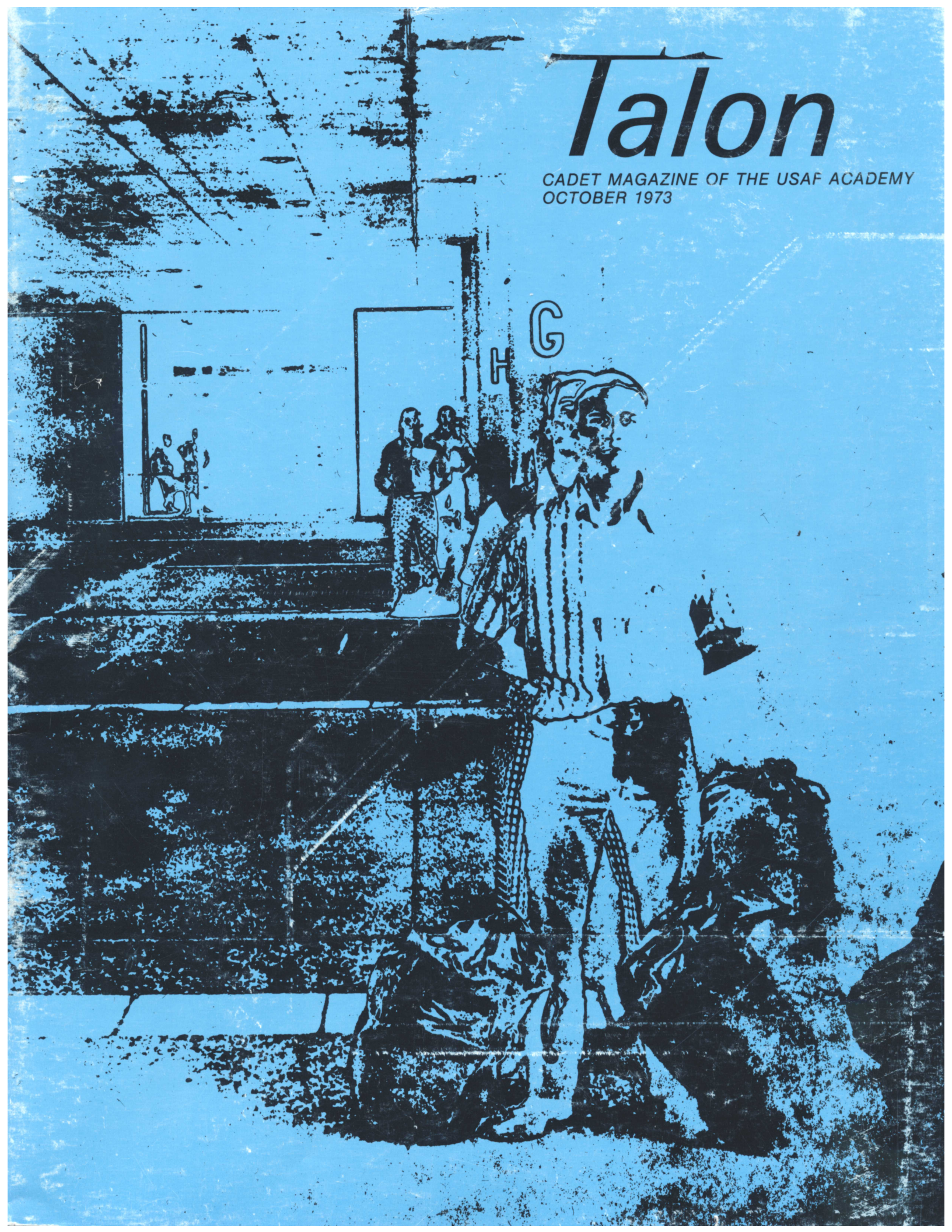
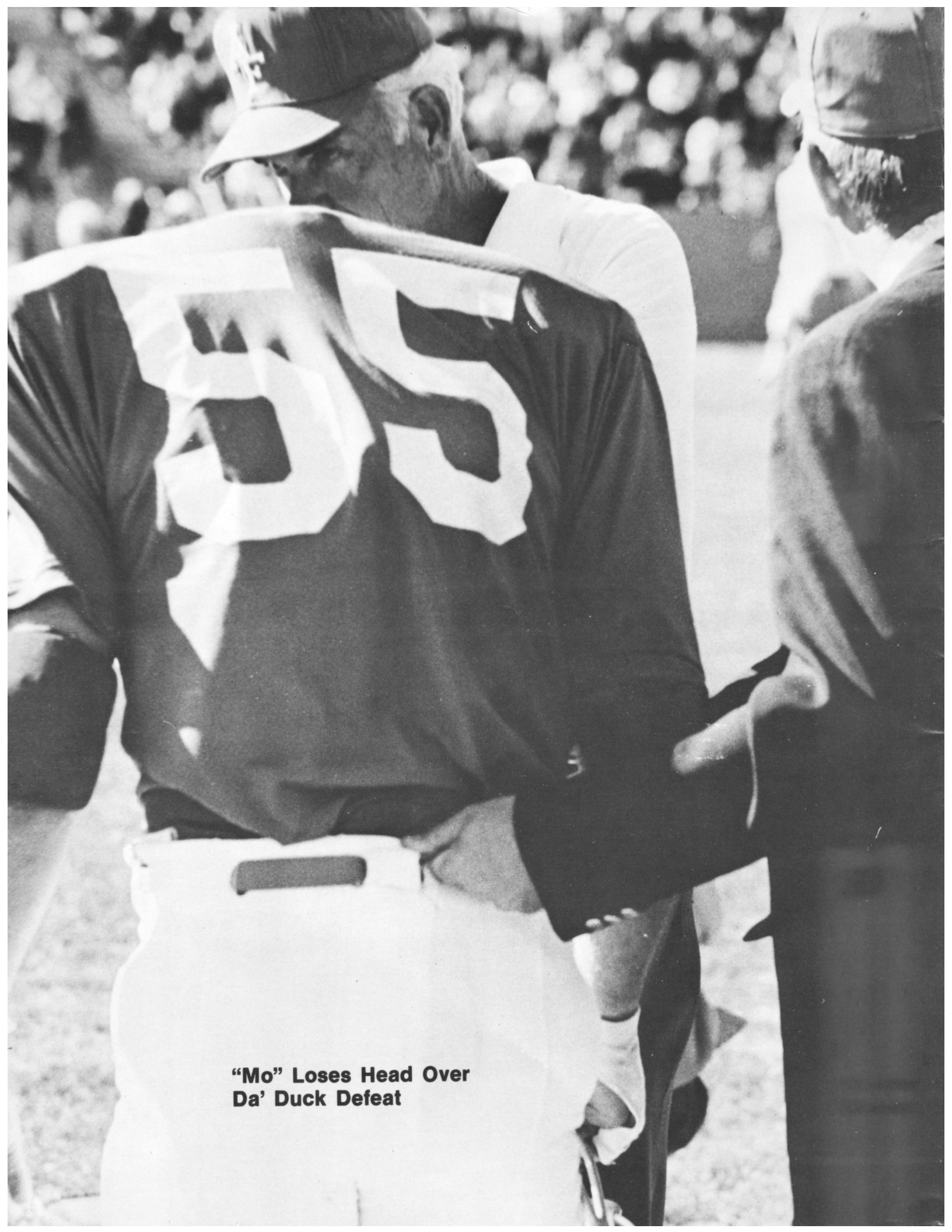


Talon

CADET MAGAZINE OF THE USAF ACADEMY
OCTOBER 1973



F C



**"Mo" Loses Head Over
Da' Duck Defeat**

Talon



Vol. 19 No. 1

**OCTOBER
1973**

COVER: "Beginnings of Beast"
by C/3C Hugh Smith

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FIRST CALL

Our ability to communicate should be considered a true art. Unfortunately, most never realize its importance. Communication has been lowered to the level of a mechanical skill; it has been taken for granted; it is often misused. The result of the frequent disregard for the importance of communication skill can be seen in angry faces in picket lines, during father-son talks on politics, and in the unending nature of war.

The *Talon* cannot solve all the world's problems of communication but it can give you a small slice of what the communication pie is all about. That is what our first issue aims to do.

I'm O.K. - You're O.K., an interview with Dr. Alton Barbour, a speech communication professor at Denver University, will give you an insight to some of the topics and methods of communication techniques being examined in the university world. A new role for communication at the Academy, the Cadet Wing Media organization, is explored in an article by Dan Felix. Mike Coker reveals a living story of communication; the making of 1400 cadets from 1400 former high school students - BCT.

It is our belief that the first issue sets the purpose of the magazine in perspective. Throughout the year the *Talon* will attempt to communicate to the reader facts, entertainment, and intellectual value in order to broaden your view of life and open your mind to the world.

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	Sylvania	Pioneer	Sansui	Fisher	Harman-Kardon	Marantz
Model	RQ 3748					
Continuous (RMS) Power ¹ 4 channels Stereo Bridge	50Wx4 125Wx2					
THD at rated output	<0.5%					
IM Distortion at rated output	<0.5%					
FM IHF Sensitivity	1.9 μ v					
50 db signal to noise ratio	2.8 μ v					
Capture Ratio	1.5db					
Price	\$549.95 ²					

¹All power measurements taken at 120 volts/60 cycles, 8 ohms, 20Hz-20kHz, all channels driven simultaneously.
²Manufacturer's suggested list price which may be higher in some areas.

If you're in the market for four channel, you already know you've got to spend a good bit of cash for a receiver. So it'd be a good idea to spend a good bit of time checking specs on everything available just to make sure you get the most for your money.

To make your search a little easier, we've prepared the blank comparison chart above with spaces for some of the best-known brands and most important specs. Just take it with you to the store, fill it in, and you'll be able to tell at a glance what you get for what you pay.

We took the liberty of filling in the Sylvania column with specs for our RQ3748 four channel receiver. We did it because we know we're not the best-known name in four channel, and we didn't want you to overlook us for that reason.

Because we think the RQ3748's specs are really worth remembering.

50 watts of RMS power per channel at 8 ohms, 20-20kHz, with all four channels driven. 125 watts per channel in stereo bridge mode. A THD and IM of less than 0.5% at rated output. An FM sensitivity of 1.9 microvolts. A discrete four channel receiver with

matrix capabilities so you can use either type of quadrasonic material. And much, much more.³

We can offer so much because we have so much experience. We were one of the first in the audio field. And now we're applying all our knowledge, all our engineering skill to four channel.

Once you've proven to yourself which receiver has the best specs, move on down to that last line in the chart and compare Sylvania's price with all the others. Find out which one gives the most for your money.

We feel pretty confident you'll discover that the best-known names aren't necessarily your best buy.

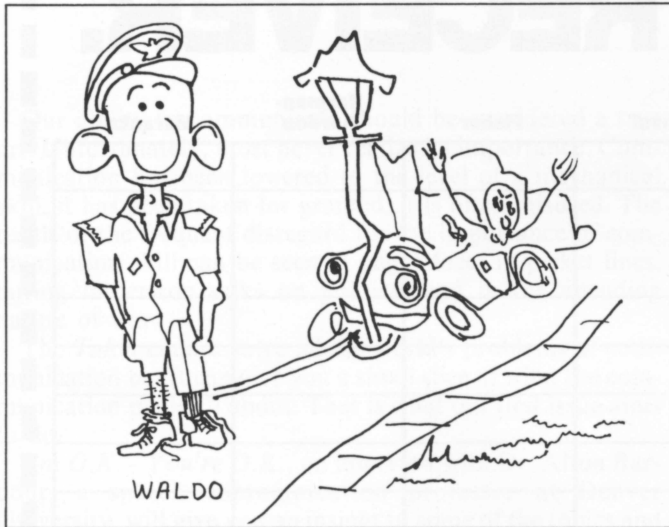
³So much more that it won't all fit here. So send us a stamped, self-addressed envelope and we'll send you a four-page brochure on our four channel receivers.



GTE SYLVANIA

Sylvania Entertainment
Products Group, Batavia, N.Y.

THE SECRET LIFE OF WALDO F. DUMBSQUAT



Waldo F. Dumbsquat sighed. It had been a bad day. Very, very, bad. He had been ten minutes late calling minutes for reveille, and there had been some kind of trouble with Security Flight not getting a report. "Dumbsquat," his element leader had shouted, "you're on SI's for ten years!" Then with one minute till first call for classes his shoelace broke. His instructor had made him do board work all period for not having done his homework. At lunch the waiter had spilled ravioli all over his sleeve. Then coming back from lunch he had stumbled on a crack in the terrazzo, wiping out both shoes. After dinner he had gotten trapped into holding the door open for all the upperclassmen. Then he had a class meeting, organizational meeting, fourth class meeting, a meeting to decide when to meet again, a ring meeting, a meeting for all fourth classmen who did not have a meeting at the time, an honor meeting, a meeting to decide how to sort laundry, a meeting for minute callers, a tattoo meeting, a flight meeting, an element meeting, a squadron meeting, and a group meeting. It had been a very bad day indeed.

But Waldo F. Dumbsquat did not despair. He did not cry or become hysterical. He stood up bravely in spite of his life as a fourth classman. "Ho Hummm," he sighed as he climbed into bed. "I'll make up for it tonight."

The alarm rang. Waldo F. Dumbsquat peered at the time, 2400 hours. Yawning, he climbed out of his bed. But now his appearance was changing. Proud, haughty, and with a look of independence, he walked down the hall to the elevator. He pushed the button that said basement. Switching on the lights for the tunnels, he strode down the cobweb way. He stepped into a room. Minutes passed, then from the door strode not C/4C Dumbsquat, but Colonel Waldo F. Dumbsquat. Pushing the button for the third floor, he fitted a cigarette into his silver-plated holder. He strode into Security Flight.

Room attention!" The SOD shouted.

"I want a car immediately, mister!" Colonel Dumbsquat demanded.

"Yes, Sir!" The SOD replied promptly. He dialed for the motor pool, and got the car.

"I want this room straight when I come back at 0400. These windows had best be polished, the floor waxed and everyone's shoes shined! Are there any questions?" Colonel Dumbsquat strode out the door.

"Gee," The SOD remarked, "he sure looked very young!"

"Probably flew out of England and got rank fast." The NCOD replied.

"Yea, but I would swear that he was about 19." The SOD said while polishing the windows.

"Oh, Waldo!" Bell Air cried, melting into his arms. "It seems an eternity since last night!"

"Now, now, now, dear," Waldo cooed. "You'll wrinkle my uniform — Driver! to the Broadmoor for dinner!" He then shouted.

"Good evening, Colonel," The head waiter syruded, showing them to the best table.

"We will have the same as last night, Charles, charge it to the BOQ at the AFA."

"Fine, sir, anything else?"

"Ah, Yes, have the orchestra brought back."

"Yes, Sir!"

"And Charles, give each man a ten dollar tip and twenty for yourself."

"YES, SIR!"

The evening slipped on into the morning. Waldo left the Broadmoor and headed for home.

"Good night, dear." He sid to Bell Air.

"Good night, Waldo." She murmured with tears.

The car headed for the Academy.

"That will be all for tonight, Driver." Waldo said.

"Room Attention!" The SOD cried tiredly.

"Much better, Mister, but those windows could do with some more work."

"Yes, sir!"

"Oh, yes I want you to wake up all of 17th squadron and take them for a run immediately!"

"Yes, sir . . ." They were crying now.

"Good evening men."

Back to the tunnels Waldo went, into the little room. A few minutes later once again C/4C Waldo F. Dumbsquat stumbled out, haggard.

It had all of the making of a glorious day. He called minutes on time and made it back to his room without being caught for not wearing pajamas.

"Gee, Waldo, what a night," his roommate remarked. "I couldn't sleep a wink. Some squadron was running all night."

"That's funny, I didn't hear a thing," Waldo replied.

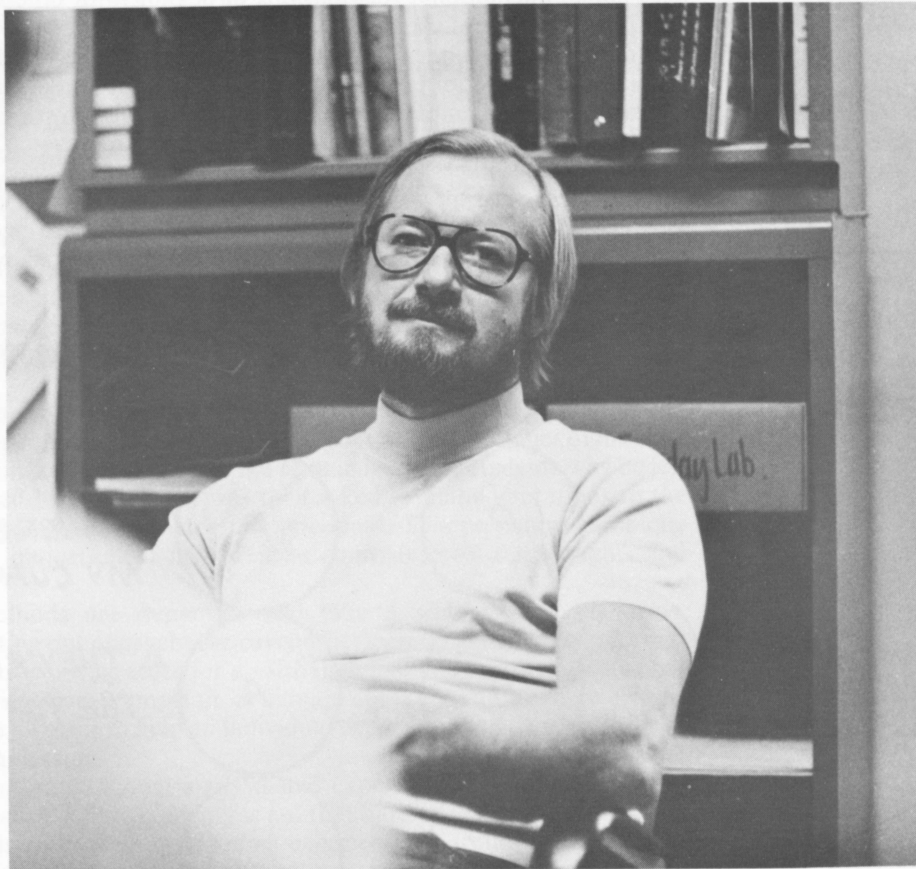
I'M O.K., YOU'RE O.K.

An Interview With Dr. Alton Barbour of Denver University

Story by Bill Sexton '74
Photos by Terry Clemens '74

People communication, just as other subjects in the realm of intellectual study, has its own theories, dogmas and recurring teachings. In the seventies, communication has found a home on the battlefield of psychology.

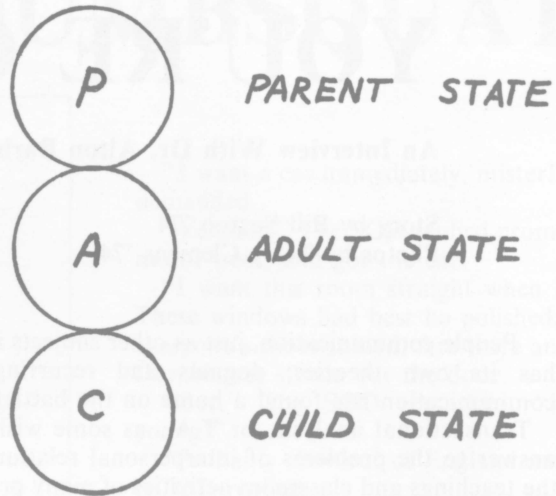
Transactional analysis, or T.A., as some wish to call it, is psychology's new answer to the problems of interpersonal relations. T.A. has manifested itself in the teachings and classroom activities of many professors throughout the country, including Dr. Alton Barbour, an Associate Professor and Director of Graduate Studies in Speech Communication at Denver University. In a recent series of interviews with the *Talon*, Dr. Barbour revealed some of the basic axioms of transactional analysis and described the directions he has taken in the conduct of his "experimental" learning laboratory.



Dr. Alton Barbour, a speech communication professor at Denver University relates to Talon some interesting facts about transactional analysis.

(Continued on page 6)

Dr. Barbour calls T.A. "a group therapy". Barbour claims: "It's an attempt to look at interactions or transactions between people in terms of ego states." The "ego states" which Barbour mentioned are the key to the structure of transactional analysis. T.A. theory holds that there are three ego states which are in the make-up of each individual (shown below).



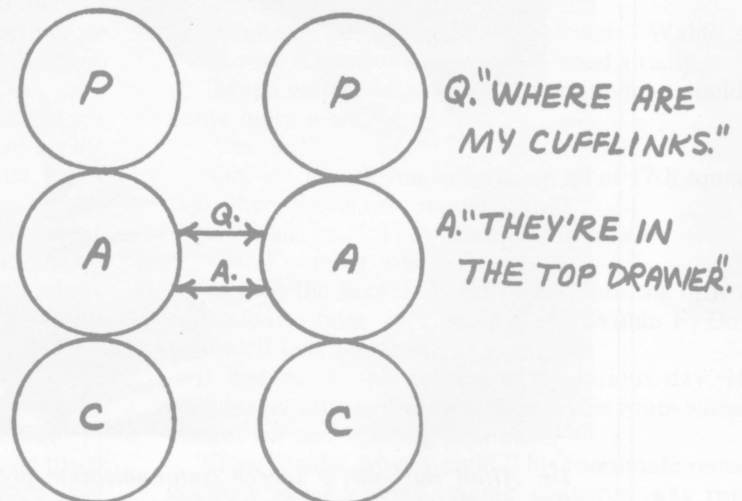
The first state called the Child state is one made up of basic emotions and internalized actions. The second state is the Parent state. In this state the individual is "thinking, feeling, acting as a parent". The last and most important state is the Adult state. This state grows from the Parent and Child levels and encourages reasonable, unemotional relationships in dealing with others.

It is the purpose of transactional analysis to aid in the growth of the Adult state. The dominance of either the Parent or Child state results in an individual who views others as inferior (as in the case of a dominant Parent state) or superior (as in the case of a dominant Child state). By insuring the growth of the Adult state, the individual takes on a life position of "I'm O.K. — You're O.K." in his relationships to others. "The most satisfying way to relate to somebody else in terms of the other person's satisfaction and your own is to believe you are a worthwhile individual," related Barbour. T.A. hopes to encourage this type of complimentary transaction between people (graphically shown below).

***"The Most Satisfying Way
To Relate to Somebody
Else . . . Is To Believe
You Are a Worthwhile
Individual"***

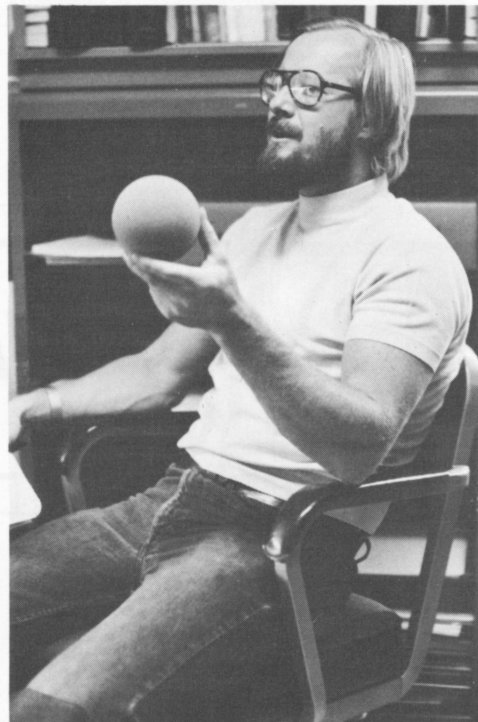
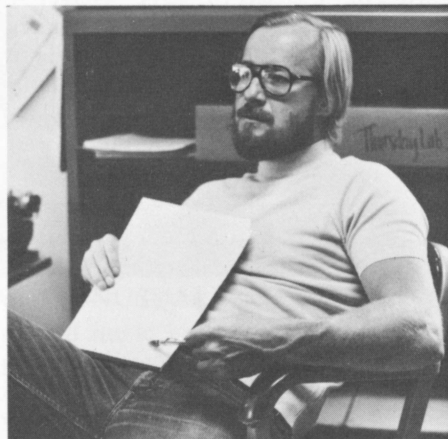
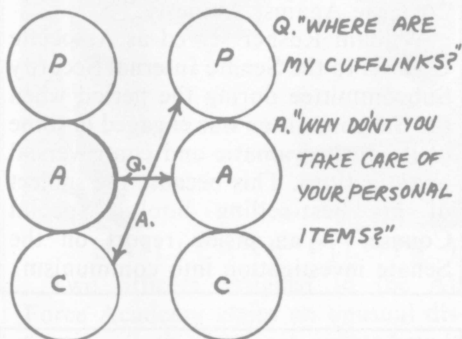


COMPLEMENTARY TRANSACTION



For example, a husband may ask his wife, "Where are my cuff links?", an Adult question directed at receiving an Adult answer from the wife, such as, "There in the top drawer." But, if the wife should respond, "Why don't you take care of your personal items?" an unwanted cross transaction has resulted; i.e., in response to an Adult question the wife has answered as would a parent to a child.

CROSS TRANSACTION



Transactional analysis, then, allows the layman to examine his interpersonal relationships to discover his own strengths and weaknesses in communicating with people. As Dr. Barbour puts it, "I think you don't discover problems (with T.A.), but I think you discover unused resources. You discover you have strengths you didn't have before."

The experiential laboratory in interpersonal communications conducted by Dr. Barbour at Denver University is an unusual combination of cognitive and "experience learning" techniques. His three hour class sessions are spread throughout 30 lessons during the academic year. In each class session Dr. Barbour devotes one hour to lecture subjects connected with interpersonal communication. The remaining two-thirds of class is spent in what Barbour calls "activities". "Activities" entail various mechanical methods of interpersonal communication aimed at, not only experiencing relationships, but also developing skills to improve an individual's communication abilities. One such method Dr. Barbour uses is the game of "frizbee". As Barbour reveals, "There's not anything you can't say about interaction that you can't say about frizbee . . . It occurred to me that it was an interaction game. It's very different from tennis. Tennis is a game where you try to hit the ball where the other person isn't. It's a win-lose game. Frizbee isn't a win-lose (game). You throw the thing (the frizbee) to be caught. It doesn't matter if you are the world's best frizbee player; you still have to wait your turn. It's just like conversation."

Dr. Barbour's laboratory methods include concentration on the individual and his relations to other people. In one technique Barbour asked a member of his class to draw a picture of himself and explain to the remainder of the students why he felt the picture represented him. The class was then asked to make alterations to the drawing in accordance to how they saw the individual. This projective technique gives the student an indication of how well he communicates his thoughts and feelings to others.

Dr. Barbour's methods are numerous and take a wide variety of forms. Psychodrama (the acting out of psychological conflict), group games, group formation exercises (such as choosing sides for a softball game) and unusual methods of group decision making (an example is a human checkers game where people become the checkers) all serve to help an individual experience and develop skills of interpersonal communication.

How such things as transactional analysis and experiential learning apply to a military atmosphere such as the Academy is not that hard to realize. In a very true sense, the Academy is an institution based on experiential learning. Four years of interaction with superiors and subordinates through the use of interpersonal communication skills creates the ability to lead. This points to Dr. Barbour's belief that communication skills can be learned and must be experienced. The expansion of communication skills by living communication is essential because, as Dr. Barbour states, "The things you are inclined to remember are the things you experience."

ABOVE, LEFT: Dr. Barbour explains a cross transaction. ABOVE: Dr. Barbour is holding a "Nurff Ball", one of the many instruments he uses in his communication laboratory.

HOMECOMING FOR GRADS

The Air Force Academy played its Homecoming football game on the 6th of October against powerful Penn State, and some of the Academy's most enthusiastic rooters were 13 former prisoners-of-war as well as other USAFA graduates.

In the past, Academy graduates have distinguished themselves both in war and peace. For instance, they have won a composite of twelve Air Force

crosses, 141 Silver Stars, 1570 Distinguished Flying Crosses, and 2353 Air Medals. Of the three Air Force aces, two of them, Captain Ritchie and Captain Feinstein, are USAFA graduates; sixteen USAFA graduates have shot down MIG aircraft, with six downing 2 or more MIG's. In addition, sixteen graduates are Rhodes Scholars and four have been given the special honor of White House Fellows.

WILLIAM A. RUSHER TO SPEAK

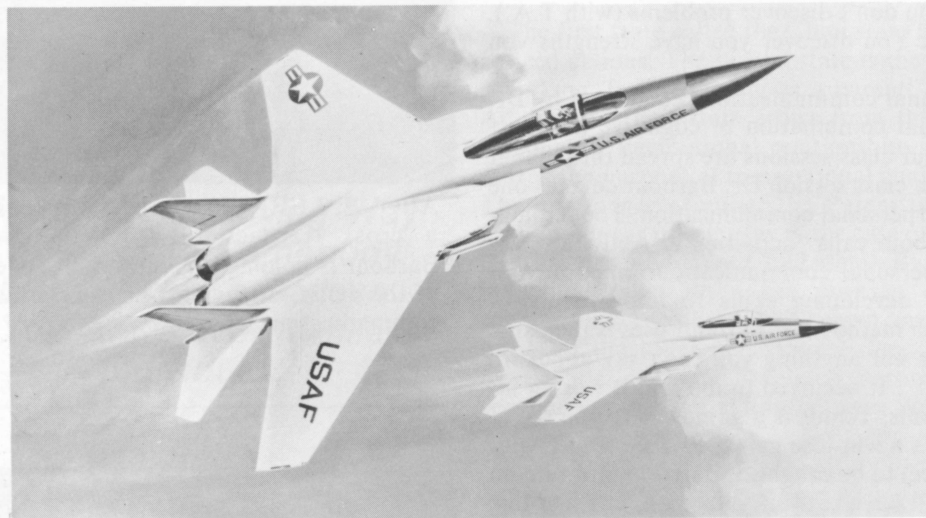
William A. Rusher, the publisher of the *National Review*, a leading journal of conservative opinion, will speak at the Air Force Academy 23 October at 1930 in Arnold Hall. His topic will be "A Case Against Amnesty."

William Rusher served as Associate Counsel to the Senate Internal Security Subcommittee during the period when the Subcommittee was engaged in some of its most dramatic and controversial investigations. This became the subject of his best-selling book "Special Counsel" - an inside report on the Senate investigation into communism.

ASSEMBLY

USAFA BALLOON PROGRAM EXPANDS

Balloon enthusiast Don Piccard visited the Academy recently and donated a \$6,000 balloon to the Cadet Hot Air Ballooning club. Piccard advocates the advantages of ballooning experience for pilots. "You can see, feel and believe the basic fundamentals of flight. You can feel the inertia and mass. The basic gas laws of physics become real."



F-15 PROGRAM STREAKS ALONG

The past months have seen many significant developments in the Air Forces's F-15 "Eagle."

The first supersonic firing of the internally mounted M-61 20mm Gatling gun by the F-15 was accomplished July 18 at the Pacific Missile Test Range. Test bursts were fired at speeds of Mach 1.5 at 40,000 feet altitude and at Mach 1.3 at 30,000 feet. In previous tests the gun has been fired at extreme angles of attack and in five "G" maneuvers.

The first missile separation test took place on July 23 when an AIM-7 Sparrow missile was launched at the Pacific Missile Test Range. The launch was made at an air speed of .8 Mach at an altitude of 20,000 feet. The Sparrow

missile was fired from corner stations under the fuselage.

In one of the most severe maneuvers to date, the F-15 performed a 3.5 "G" maneuver at Mach 2.3 at 45,000 feet altitude. Maneuvers such as the ones being described are part of the stability and handling tests being flown by the F-15 based at Edwards AFB, Calif. Also the F-15 conducted successful intercepts of the SR-71 aircraft, which was simulating the Russian FOXBAT.

The Air Force is now flying nine F-15 Eagles, including the first TF-15 two seat F-15, and has accumulated more than 770 flying hours in 750 flights. Gen. William M. Momyer, former Chief of TAC, called the F-15: "finest fighter in the world today!"

ON TARGET

Cadets took five out of the top eight places in the Rocky Mountain Conference Parachuting meet held recently in Utah, thus qualifying for the Nationals in June, 1974. Cadet First Class Jim Hayhurst of CS-02 took overall honors at the meet and C/IC Manuel Montejo, C/IC Chip Wilde, C/IC Steve Boyce, and C/IC Tom Hendricks were the others who received individual honors. The team, although lacking a considerable amount of jump time in comparison to their civilian counterparts, is hopeful of winning the National Collegiate Parachuting League for the sixth year in a row. The meet will be held in Carbondale, Illinois, the home of Southern Illinois University, before and through Thanksgiving weekend. A very exciting and interesting segment of airmanship at the Academy, the jump team and parachuting division will be featured in the next issue of the *Talon*.



SAILPLANE PILOTS HAVE UNUSUAL DISTINCTION

Two officers assigned to the Air Force Academy claim an unusual distinction. Both men teach cadets how to fly sailplanes, but neither officer is an Air Force pilot.

Major Roger Gallington and Captain Lee M. Gutheinz, although not Air Force pilots, both have their commercial pilot's license with the Federal Aviation Administration.

Gallington's and Gutheinz's participation in the soaring program is strictly voluntary and entails approximately 36 hours of their free time each week during training.

"I appreciate the opportunity the Academy's Airmanship Division has

offered me in helping with the soaring program," remarked Gutheinz. "There is a completely different atmosphere with soaring than you find in the classroom. I feel you can get to know cadets a lot better."

Gutheinz is a mathematics instructor. "Teaching cadets the fundamentals of soaring is very rewarding," commented Gallington, an aeronautical engineer. "It is a pleasure to teach students when they want to learn. These young men are dedicated and give their full attention to the program."

According to both officers there are no problems teaching the cadets how to soar. "They start out fresh, most have no flying experience," Gutheinz said.

COMM LINE

Call 2666 from 0800 to 1630, Monday to Friday to get your idea or criticism to the top. Your call will be taped and the Commandant will answer your questions; cadets are urged to first go through regular channels for questions of policy or complaints. If

your efforts prove fruitless, call the Comm Line. The more relevant questions and answers will be printed in this magazine. The Comm Line has not been set up yet; cadet information sergeants will keep you informed as to when you will be able to use it.

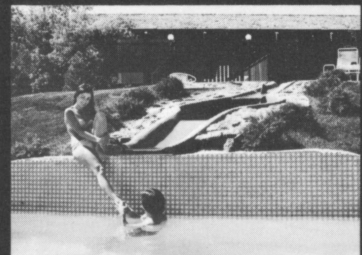
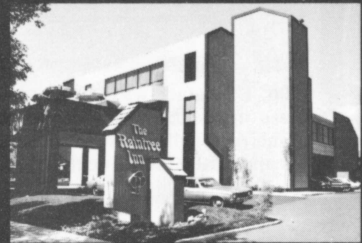
MANPOWER

A young man tries his hand at the Air Force Academy obstacle course during a recent trip here. Approximately 216 young men from the Denver area visited the Academy over a 6 week period for recreation and leadership training. The program, termed "Manpower Unlimited", is sponsored by St. Luke's Episcopal Church, Denver, and the Academy. During the program cadets played an active role in counseling the young men.



What's in the new Raintree Inn? You name it. Over 200 luxurious rooms. A free form rock sculptured swimming pool. Two saunas. Boutique. Coffee Shop. Meeting and banquet rooms. Catering service. A swinging pub. And the best restaurant this side of 1890.

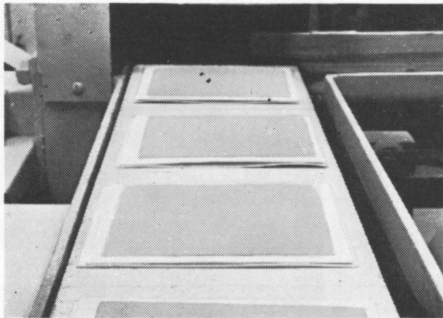
All at reasonable prices.



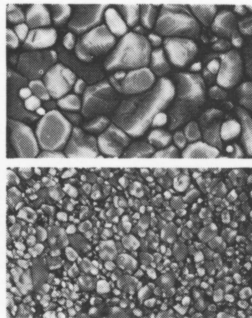
The Raintree Inn

**Bijou Street at I-25
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Phone (303) 471-8680
A Craddock Development**

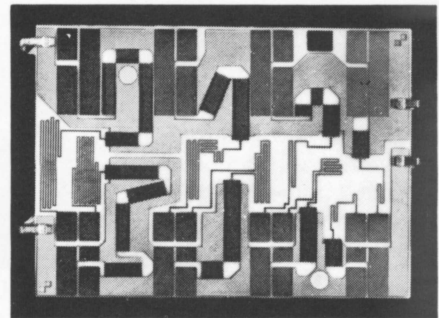
WESTERN ELECTRIC REPORTS



1500° C furnace was specially designed to fire these new substrates. The relatively low temperature results in smooth substrate surfaces for practically fault-free thin film bonding.



Electron micrographs show the great difference in grain size between new ceramic material (lower) and the previous material (upper).



Thin film integrated circuit shown here is part of a resistor network. It is one of many that benefit from the improved substrate. Metal leads on sides are bonded by thermocompression to tantalum nitride resistor film.

Smoothing the way for perfect thin film bonding.

Aluminum oxide, or alumina, is considered to have the best combination of properties for thin film circuit substrates. Until recently, however, the bonding of metal elements to gold-coated tantalum nitride resistor film on alumina was somewhat unpredictable.

Now, an advance at Western Electric has made it possible to get practically fault-free bonding of these materials.

This new perfection in bonding came through the development of finer grained alumina substrates.

The process has four basic steps: milling, casting, punching and firing.

During milling, alumina is combined with magnesium oxide, trichlorethylene, ethanol and a unique deflocculant. For 24 hours, this mixture is rotated in a ball mill. In a second 24-hour period, plastiziers and a binder are included.

The deflocculant plays a major role by dissipating the attraction forces that exist between the highly active alumina particles. This prevents thickening, which would ordinarily make an active alumina mixture unworkable.

The 48 hours of milling is followed by casting. When the material comes off the casting line, it is in the form of a flexible polymer/alumina tape, dry enough to be cut into easily handled sections.

After casting, a punch press cuts the material into the desired rectangles or

other shapes. Holes can be punched at the same time.

Finally, because of the use of active alumina, the material is fired at an unusually low temperature which results in smooth substrate surfaces for reliable thin film bonding. The finished substrate is then ready for the various processes of thin film circuit production.

In developing this new process, engineers at Western Electric's Engineering Research Center worked together with engineers at the Allentown plant.

Conclusion: This new way to produce substrates is a truly significant contribution for thin film circuit production.

The ultimate gain from this smoother substrate is for communications itself. For through the achievement of nearly perfect bonding of metal leads to tantalum nitride, thin films can be produced with even greater reliability and economy.



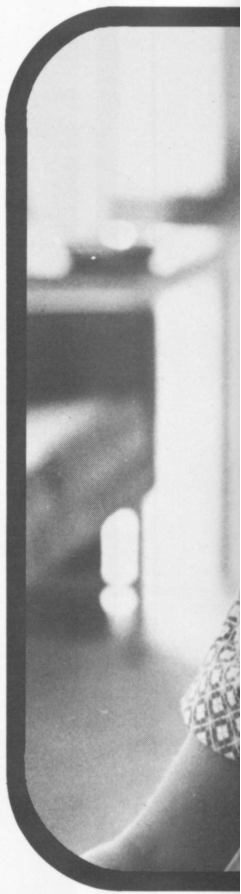
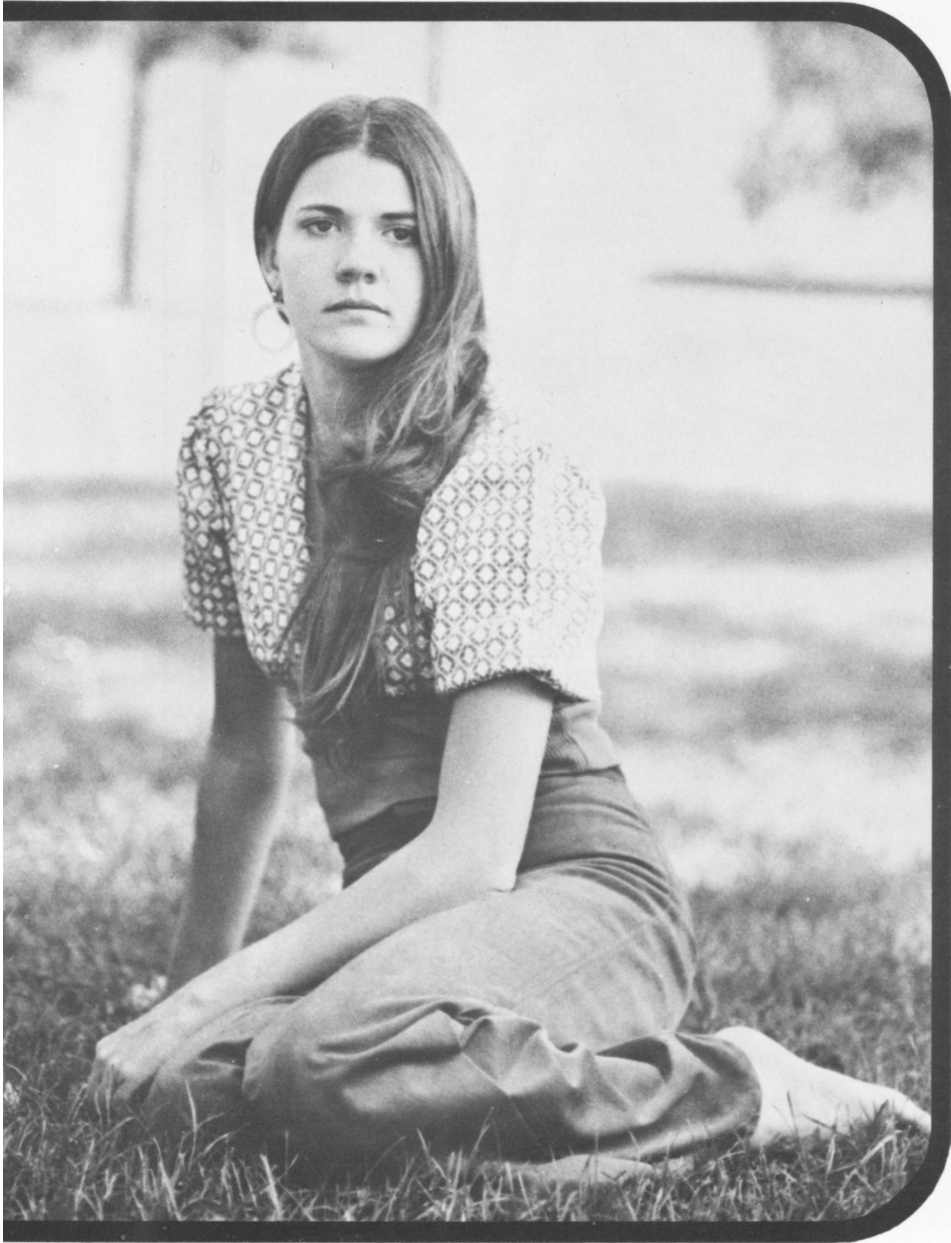
Western Electric

We make things that bring people closer.



JENNIE

WESTERN ELECTRIC REPORTS

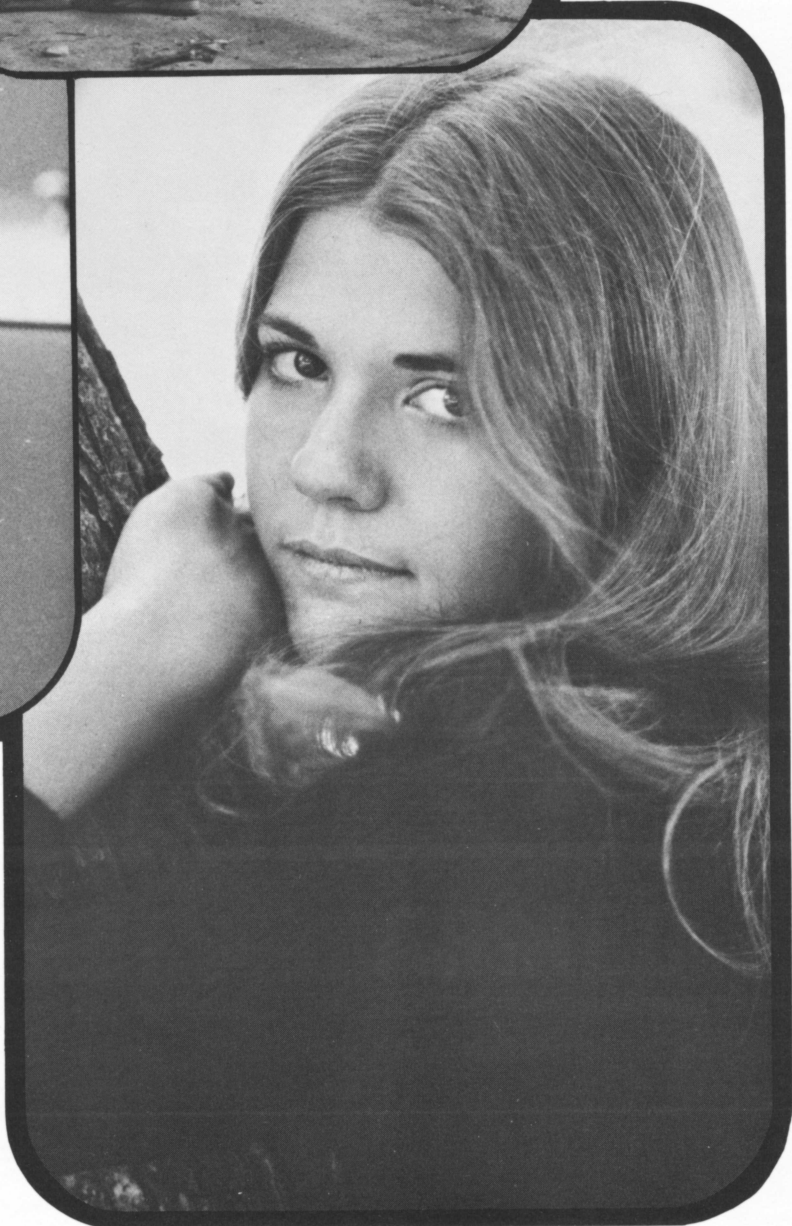


The 45 hours of drilling is followed
by caving. When the material comes off
the cutting line, it is in the form of a flow.

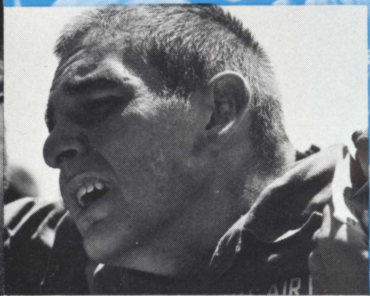
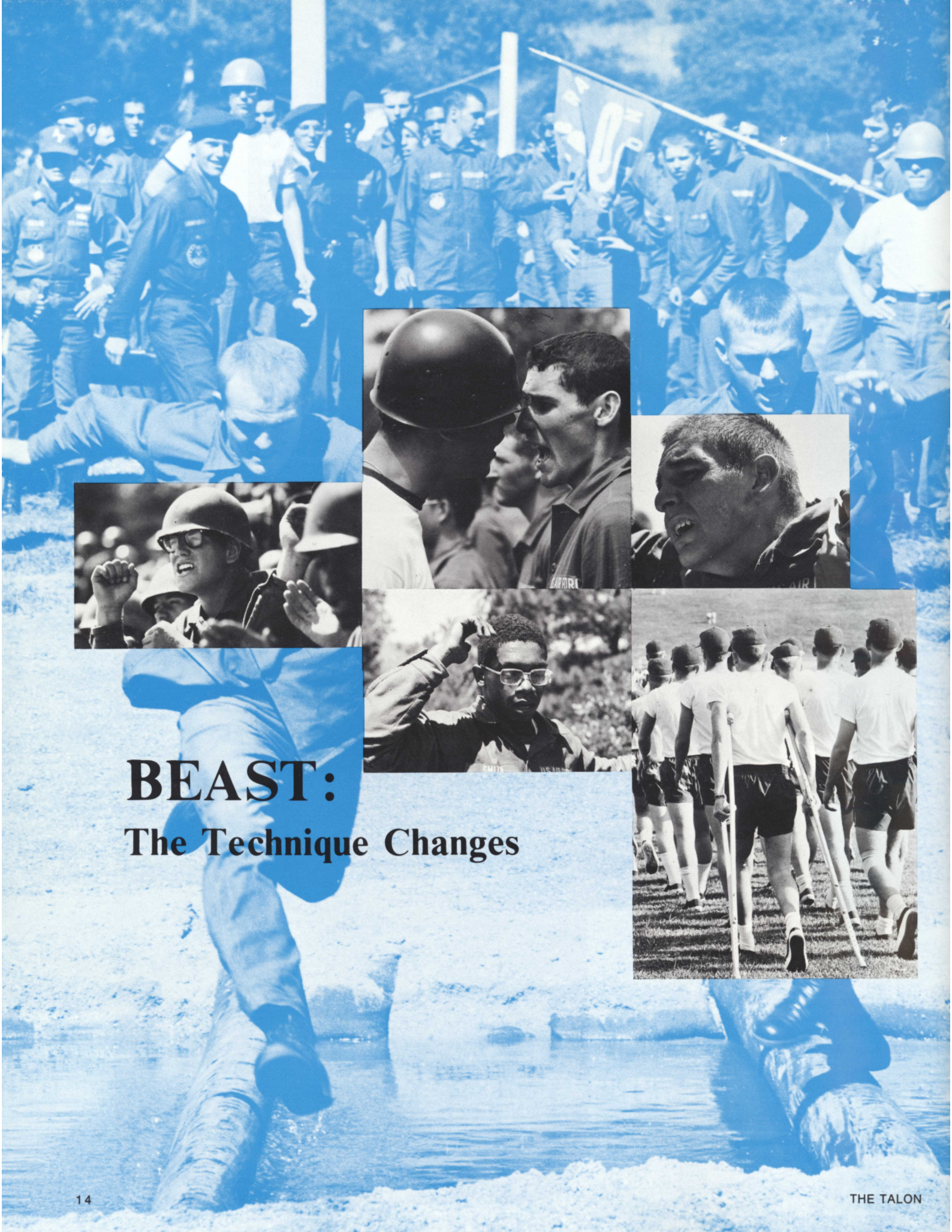
JENNIE

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Our October Girl-of-the-Month is Miss Jennie Bowhay of Colorado Springs. Jennie is the daughter of a retired Air Force man who was last stationed at ENT AFB. During the school year, she is a cheerleader at Palmer High School and will graduate with the class of 1974. Swimming, skiing and sewing are her favorite activities along with regular work at the TERROS hotline, a crisis prevention center in the Springs.



BEAST:

The Technique Changes

"Run, run, run. I never thought anybody could run that much."

by Mike Coker '76

And then came '77. The "Doolies," the "Rookies." What did the 1510 young men who entered the lines of processing and issue on July 2 experience?

Along with the intense cultural shock of adjusting to the strict authoritative life of the military from the civilian world of school and family, the Basic experienced all of the standard "GI issue" military training. There was drill, decorum, the Honor Code, Ethics, and regulations as well as the endless parade of validation exams.

While the fundamental training and goals of BCT remained the same for '77 as for past classes, a few changes occurred, both in methods of training and in philosophy.

'77 received their first glimpse of the discipline required of the Basic from the moment they stepped off the bus where they were met by an upperclassman who marched and double-timed them through their initial processing, and countered their urge to gaze at these new surroundings with a harsh "Cage those eyes Mister." 1461 took the oath of office to officially begin their "doolie" summer.

Training in the Cadet Area was relatively the same as in past years, but there were some interesting additions to the Jack's Valley program. The Valley has long been acknowledged for the motivation it provides to the Basic who may have become slightly disillusioned during his first three weeks in the area. Recognizing this important aspect of the Valley, this past summer saw various military establishments, located in the vicinity, cooperating to give '77 an insight into military capabilities and

an identification with the Air Force and what their training was ultimately leading to.

Low altitude passes of F-100's from Buckley Air National Guard from Denver highlighted the long march to the Valley. The F-100's were again employed along with T-33's from Peterson field in vectoring exercises which simulated the mission of the Forward Air Controller. Brief orientation rides were given in helicopters provided by Fort Carson in Colorado Springs. Our Army neighbors set up an excellent static display of tanks and small arms. The USAF Thunderbirds cooperated by making a pass over the Valley encampment while enroute to one of their summer shows.

The success of Jack's Valley as a motivational device contributed to the decrease in attrition during second BCT as compared to the first 3 weeks. While all classes suffer a large cut in personnel during 1st BCT, '77 had only 21 people leave during their second phase of training compared to 57 for the Class of '76 and 75 for the Class of '75.

Of the 1461 Basics who began the first day of training, 146 (10.1%) had left the Academy by the end of BCT. The major reason cited by these men for leaving was "environmental adjustment problems." Last year's classes lost 133 (8.8%) and cited "change in career goals" most often as the determining factor in their decision to leave. The class of 1975 lost 152 cadets (10.8%) in the same period.

What then were some of the changes in training philosophy developed for '77? The most apparent differences were in the development of an emphasis on

class unity and loyalty. Class spirit, which was the key to survival on past years, was never played down this summer. Yet greater emphasis was attached to a loyalty to the Academy and the Cadet Wing while aiding the Basics identity with the Air Force.

Briefly, the goal was not to train a "fourth class", but rather to train cadets and ultimately, Air Force officers. It was felt that the class spirit that is such an integral part of the Wing should manifest itself to the fullest during the academic year. This may be true, as more and more we hear in unison "Pride Rides With '77."

Through the years we have seen a gradual lessening of hazing and an emphasis on the training and well-being of the Basic. This year saw a limit on squat thrusts meted out to a Basic for punishment and only certain periods in Mitchell Hall when questions could be asked, insuring that each Basic received a full meal. The most important and best change this past summer was the abolishment of titles such as "Smack" and "Wad" used in reference to the Basic and replaced with "Mister".

Most of all, the cadets attempted to approach the training situation with more professionalism than ever before.

The new fourth class has begun the year with a good record from BCT. They have endured a long arduous summer that, because of the stress on individual performance, has guaranteed only the best remain out of those who first appeared in July. They are well trained, highly motivated, and dedicated young men and as the year progresses we hope to find that "Pride DOES Ride With '77."

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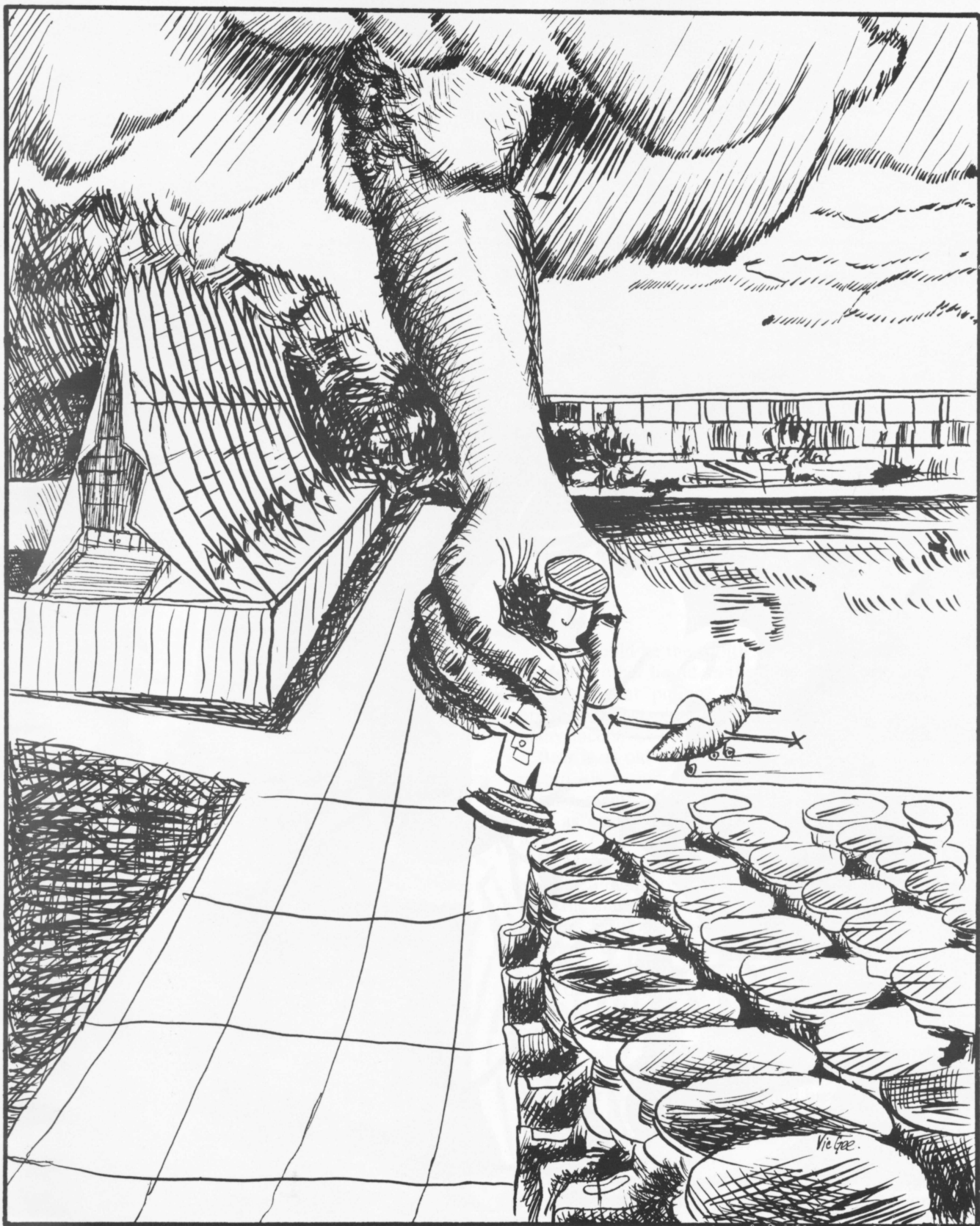
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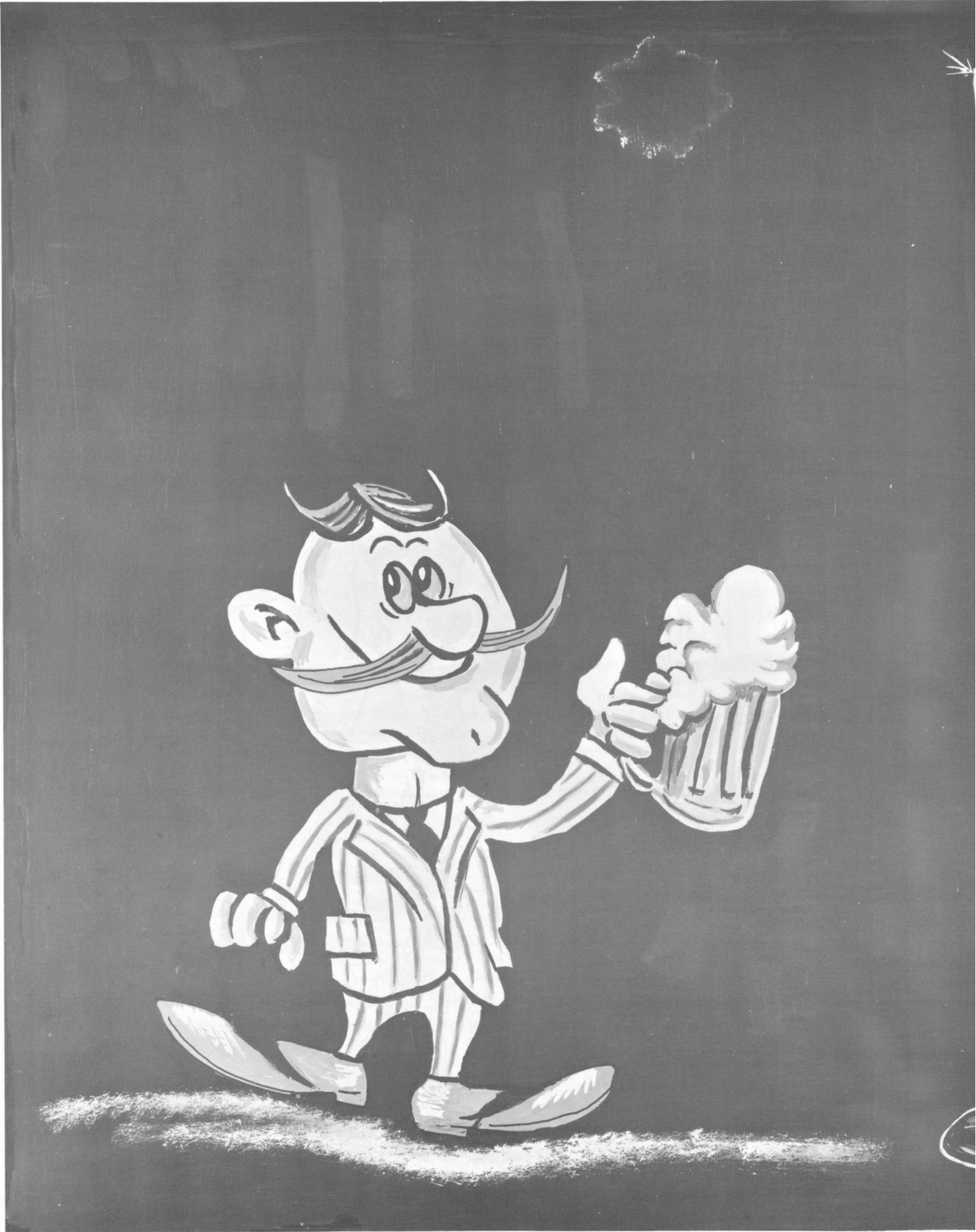
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FAMILIAR SUB SHOPS

WHAT YOU ALWAYS WANTED TO KNOW ABOUT BEER*

by Tom Laurie '75

*But Were Afraid To Ask

Beer should be the eighth wonder of the world. And why not, what other liquid on the face of the earth is as versatile as this potent potion? Beer historians, beef chefs, beer brewers or just plain beer guzzlers can be amazed by it's many facets.

Beer is as old as mankind. Long before man was able to record his actions, beer was enjoyed. Although the Bible doesn't mention it, an Assyrian tablet of 2,000 B.C. lists beer as one of the main staples taken aboard on Noah's Ark.

In Mesopotamia, 4,000 years ago, brewing was recorded as being a highly respected profession. In those days women were the master brewers. Brewing was so important that the goddess Siris was made the patron of beer, and was later followed by the goddess Ninkasi. Brewers were usually awarded the position of temple priestess.

In the days of the great Roman legions the foot soldier marched and fought without the benefit of a modern field kitchen. To relax in the lulls of battle the men drank their Roman beer. Even their leader, Julius Caesar, was seen toasting his officers with beer after victorious battles.

Beer, or as we might say "liquid bread", has been quaffed down by the royalty as well as by the common man throughout the ages. In the early history of America, beer played an important role.

Before Columbus made his discoveries, the American Indian living on the Caribbean shores brewed a grain beverage resembling beer. Records show that beer was made by the ill-fated Lost Colony of Virginia in 1587.

If not for a shortage of "our beere," Plymouth Rock may have been founded in Virginia instead of in Massachusetts. Beer was also made by the first colonies at Jamestown and New Amsterdam.

Throughout our early history, great leaders such as George Washington and Thomas Jefferson took the choicest grain they had and brewed beer for their friends and neighbors. Samuel Adams, the father of the American Revolution, owned and managed a brewery in Boston.

Today, only the best grain from the mid-west is good enough for brewing. Choice barley, which brings a premium price for farmers, is converted to malt. Other grains such as rice and corn are also used in the processing of beer.

In processing beer, the first step is making a sweet mash. The malted grains are added to filtered, heated water and the mash is then heated to a high temperature until the fermentation of starch to sugar is completed.

Once this is done, the extracted grain is removed from the mash, leaving a sweet tasting liquid called wort. To the wort, hops are added and the mixture is boiled for a specific time.

The spent hops are now strained out and the wort is cooled and pumped into fermentation tanks. There, yeast is added to start the reaction. The beer is then transferred to near-freezing aging tanks for 3 to 5 weeks where it undergoes clarification, mellowing, and stabilization. The beer is now ready for bottling.

Throughout the brewing process, the brewer can change the identity of his beer by adding special ingredients or by using special processes. There are five main categories of beer: Lager Beer, Pilsner, Ale, Bock Beer, and Malt Liquor.

Lager Beer is the type of beer most widely sold in the U.S. today. It ranges from light amber in color to a dark brown. It has a soft, mellow, dry taste. Pilsner is really a kind of Lager Beer. It is especially light and bright.

Ale is a beer with a pronounced hops aroma and taste. It is lighter in color than Lager, but more tart in taste.

For a sweeter taste, Bock Beer fills the need. Being made of caramel malt it has an especially dark color. One caution though, Bock Beer is a seasonal beer and should be consumed in the Spring for the best results.

For a robust treat, malt liquor will hit the spot . . . Made quite like beer, but fermented at a higher temperature, this concoction is generally lighter in body, but is more potent than your usual brew.

Although the pouring of the beer is not too important, the container into which you pour is. The slightest hint of soap or lint in your beer mug will detract from your enjoyment of the beer. An expert tip is to rinse your glass or mug in cold water and shake it dry before serving.

The taste of beer is not self contained in the drinking world. For many years beer has been an important ingredient in many classic dishes. Adding beer to your favorite cake or pancake recipe adds a fluffiness that cannot be obtained from any other ingredient. What would a clam bake be without having the clams, lobsters, and corn steamed in beer? Many other foods can be changed from being ordinary to being extraordinary by the addition of a pinch of beer.

In this article, many uses of beer have been discussed. I leave the reader with one thought: countries in the world that have the highest per capita intake of beer also have the smallest percentage of alcoholics. Remember, beer is for the drinking, eating, watching, making, . . . ad infinitum.

BOTTOM: Mesopotamian king drinks beer from a golden straw. BELOW: Isis, the patron god of brewers in Egypt. RIGHT: 5th Sq. collection of beers of the world.





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Cadet Wing Media: A New Role For Information At USAFA

by Dan Felix '74

The October issue of the *TALON* marks the beginning of a new program for the magazine. The organization that the magazine has operated under for the last ten years has been changed markedly. Until last June, the *TALON* magazine had operated out of a small office within one of the many large divisions of the Academy staffs. The *TALON* did not receive the attention it deserved. The caliber of the magazine as well as the subscription schedules were constantly in poor shape.

In November of 1972 a proposal to move the publication out of the Personnel Division and establish a new office whose sole concern would be all cadet publications was forwarded. This included the *POLARIS* yearbook, the Academy radio station, KAFA-FM, and the informal humor magazine, the *DODO*.

In February of 1973 the new plan was submitted to the Commandant-of-

Cadets. General Vandenberg was very receptive to the concept and gave the go-ahead for tentative changes, also hoping that the new office would channel emphasis on improving communication within and about the wing. By May, all activities involving publication or broadcasting were removed from their original controlling agency and placed in the new Cadet Wing Media Division and encouraged to help keep information flowing to cadets. The new division would work directly under the Commandant-of-Cadets and the Chief Officer of the division would sit on the Commandant's staff. By the second week in June, the division and position of Chief, Cadet Wing Media had been established.

Based on the importance of the function, General Vandenberg decided to increase cadet involvement by establishing two cadet positions. The first position was the Cadet-in-Charge of

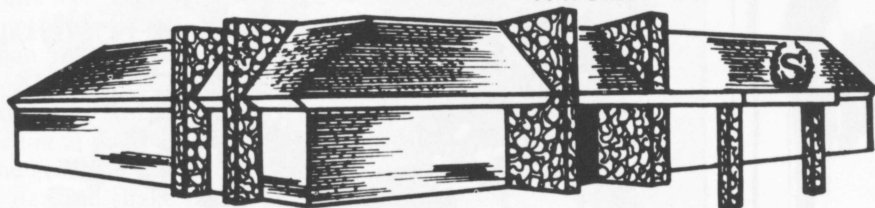
Media.

When the academic year began, the position of Wing Information Officer was added to the Wing Staff. In addition, each of the forty squadrons added a Squadron Information Sergeant. These cadet positions should improve the flow of information significantly. The Wing Information Officer performs the same duties that an Information Officer would perform on an Air Force base. He is responsible for supplying information and motivation to cadets.

The establishment of this new division has increased the viability of the various cadet media. The *TALON* is at the forefront of cadet media and will increase its emphasis on information as well as entertainment. With a full time staff and greater credibility, the cadets can produce a better product and at the same time obtain communicator training — a valuable part of command.

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DID YOU KNOW THAT . . .

— USAFA RADIO station Kafa now has a UPI wire service facility to bring current news and sports to the Wing.

— COMM LINE, which will be starting this month, is a telephone system FOR CADETS ONLY! DIAL C-O-M-M!!

— AT a recent meeting of the Central Florida Parents Association in Tampa, Gen. Vandenberg said the following: "The First Class is dedicated to leadership and is 40 times ahead of the Class of '73 at the same time last year." Further, he said: "The military ethic (honor, morale, discipline) cannot be taught in a classroom — it must be lived!"

— FOOTBALL SERIES with Army is all even — three wins for each and one tie.

ALERT

— THE USAFA Rugby Club has won 7 of its first 8 games (tying the other) outscoring its opponents 179-19.

— NEW AIR Force Chief of Staff General George S. Brown recently said: "Qualitatively, the Air Force must be second to none".

— THE AIR Force recently accepted delivery of its first Boeing 747 airborne Command Post aircraft designated (temporarily) AABNCP.

— USAFA HAS the lowest graduate attrition of all the service academies — about 26%.



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*THE CAPTAINS;
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Illustrations by
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Bill Frank
Cross Country

*"What I'd like to see is
the Wing behind us. I
want this year to be great."*

by Russ Trinter '75

FOOTBALL

"With everyone coming back on the offense, I don't expect to punt too much."

Rich Haynie

An experienced offense and a spirited defense — that's the outlook for the 1973 Falcons this fall. With a schedule that includes national powers like Penn State, Notre Dame, and Colorado, as well as service rivals Army and Navy, the Air Force Academy football team is in for a rugged season. Yet team captains Rich Haynie and Jim Morris are optimistic about the new season.

Destined to be perhaps one of the best in AFA history, the offensive team features six returning starters and a squad that is two deep in lettermen at several positions. Balanced explosiveness is the best description of this year's offensive unit. The foursome of quarterback Haynie, fullback Bill Berry, tailback Mike Mark, and flanker Frank Murphy accounted for over 2600 yards of total offense and three-fourths of the team's touchdowns last year and all will be wearing AFA blue and silver again this season. Line play will be headed up by returning starters Greg Smith, Lance Webb, and Larry Fariss with four experienced lettermen filling the gaps left by last year's seniors.

Overflowing with experience and depth, the attack should have little trouble getting points on the scoreboard, and could outdo the 1972 team, which averaged 30 points each game.

With a crew of athletes that was described by Captain Jim Morris as "a real good bunch of hitters," the defense will be trying to make up with spirit whatever it may lack in experience. With four seniors on the squad to act as a nucleus for the young unit, Morris sees little difficulty combining hustle, enthusiasm, and youth into a strong defense. The team's greatest assets seem to be its "ability to learn and ability to play football." This fundamental approach to the game could very well have big dividends. The line will be anchored by Morris and end Paul DeHart and backed up by Dennis Collins, Steve Heil, and Rod Hennek in the backfield.

Pointing out Army and Navy as the top two games on the schedule, Morris stressed that Wing spirit will have a lot to

do with the outcome of this season. "What I'd like to see is the Wing behind us. I want this year to be great. I want this year to be just everyone together and together we can go to a bowl game."

SOCCKER

"The outlook for a second NCAA tournament bid looks outstanding if we can beat Michigan State, Army, Navy, and win the Rocky Mountain league."

Soccer captain John Brockman

John Brockman, captain of the Air Force Academy soccer team, has presented a gigantic "if", but with the experience that the soccer team has returning, this "if" could become a reality. In appraising the team as a whole Brockman states: "With the return of All-American Len Salvemini to the offense along with the others our scoring ability should be sufficient, but our strong point should be defense."

When this statement is compared to the team roster it turns out to be an excellent evaluation, as the Falcons have thirteen returning lettermen with the majority of them defensemen. These returnees are the ones who allowed a total of only sixteen goals last season when the team posted a 7-4-1 record.

Offensively, Salvemini, who has already scored 30 career goals, will attempt to break the career scoring record of 31 and hopefully the season scoring mark. Aiding Len will be an impressive group of upperclassmen including Paul Narzinski, Gary Allard, John Zimmerman, and Dave Rusk. Salvemini will be highly motivated since he attended a pre-Olympic trial this past summer and his presence on the 1975 Pan American team and the 1976 Olympic team depends largely on his performance during his next two seasons here at the Academy.

The team's schedule appears easier this season when compared to the past, but as Brockman explained, "The schedules are made up in advance and we owed a few teams a game so we are playing them this year."

Army and Navy are number one on the wanted list and Brockman hopes that "the entire Wing will help us beat Army since we play them the morning before the football game."

(Sports: Continued on page 26)

WATERPOLO

"This season is only our third varsity year, but it will probably be the best yet. With the five top scorers returning our prospects are excellent. We are aiming at winning the regional tournament so we can go to the NCAA tournament."

Waterpolo captain Kelly Kemp

The 1973 Air Force waterpolo team is bound to be shaking the nets with its explosive scoring threat. The sport as described by Kemp is "similar to hockey except that it is played in water and has the same amount of action." He hopes that more of the Wing will "get into action" and support the team.

Surveying this season's team brings forth the key word: *leadership*. Twelve lettermen are returning including seniors Kemp, Rick Pilling, Jim Struble, and All-American prospect Ben Phillips. Both the offense and the defense will reap the benefits of the experience which the returnees hold. Goalie Walt Heidmous returns and will attempt to improve on his average of 8.1 goals per game. Along with the abundance of talented upperclassmen, an exceptional batch of underclassmen will add the all important dimension of depth to the team. All of these characteristics combined will hopefully carry the team into the NCAA tourney. Kemp believes that New Mexico will be the team to beat for a shot at the tourney, but admits that before New Mexico, the team has other rugged opponents including Colorado State

University and Wyoming.

CROSS-COUNTRY

"We don't have any superstars, but we do have a great team; a team with spirit and most important a team with the will to win."

Cross-country captain Bill Frank

A key word which Bill Frank could have used is balance. That is the main characteristic of this year's Academy cross-country team which includes six returning lettermen and has more seniors than any cross-country team in Academy history. The strength this experience provides should enable the team to post a very successful season and improve on last season's 3-3 mark.

In forecasting the schedule Frank stated, "Our toughest meet will probably be against Southern Illinois. Not only do they have a good team, but their course is one of the hardest in the nation and since the meet is on their home course they might have a little advantage over us because of the skill required to run their course." The team will face more tough competition from local Colorado rivals, Drake, New Mexico, and at the Indiana Invitational.

With the combination of balance and team spirit plus support from the Cadet Wing, the cross-country team could attain their goal of an undefeated season. As team captain Frank said, "It really is great to see cadets come to Eisenhower Golf course and support us."

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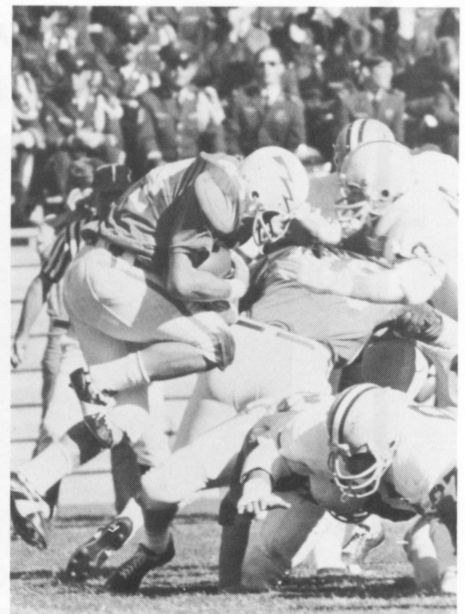
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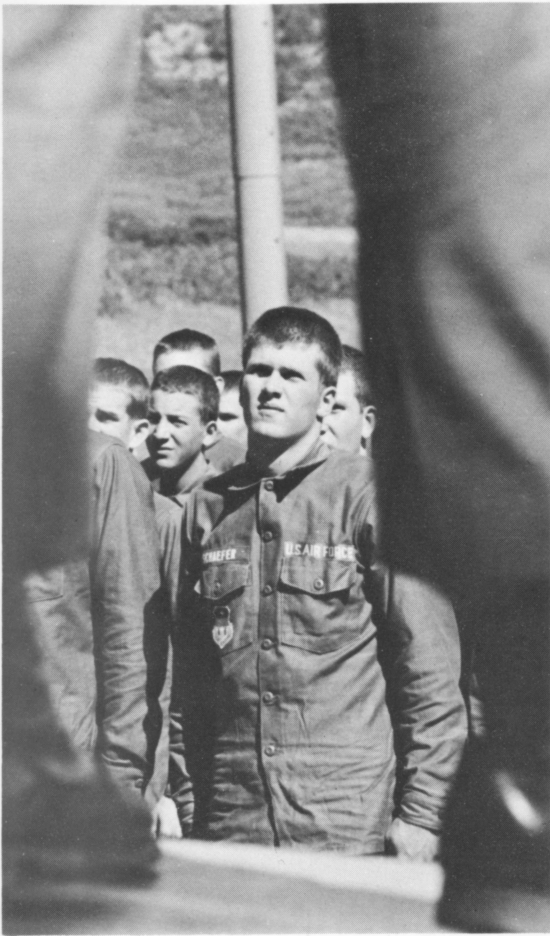


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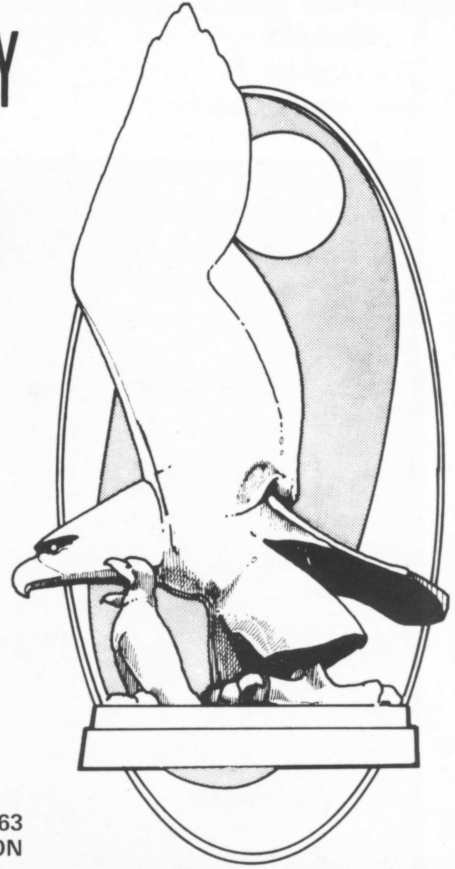
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If so, you're taking full advantage of the *one* plan selected by the United States Air Force Academy from among plans offered by many leading insurance companies.

Rates for your United American Life coverage are extremely low. You *do* save money, both now and over the long haul. Consider, for example, that during the 24-year period ending 20 years after your graduation, you'll have paid \$2,798 less in premiums (and have enjoyed an extra four years of protection) than if you had waited until after graduation and bought our standard Ordinary Life policy — including normal extra charge for aviation coverage.

NOTE: The savings shown assume \$20,000 of insurance and graduation at age 21.

Your policy assures your right to be protected by economical insurance *without any exclusions*, regardless of how hazardous the duty you may experience immediately following graduation, or any time thereafter.

We regard the splendid response of the Class of 1977 to the United American Life plan as a tribute to the Academy personnel whose decision made the plan available to you. We're very pleased to serve you, and we congratulate you on being among the men so carefully hand-picked to be a part of the United States Air Force.

We invite you to contact us at any time about the insurance program you have launched here at the Academy!



UNITED AMERICAN LIFE
Insurance Company

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Serving policyholders in all 50 States and Abroad