

Talon

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TALON

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COVER: "TALON'S GIRL-OF-THE-MONTH"

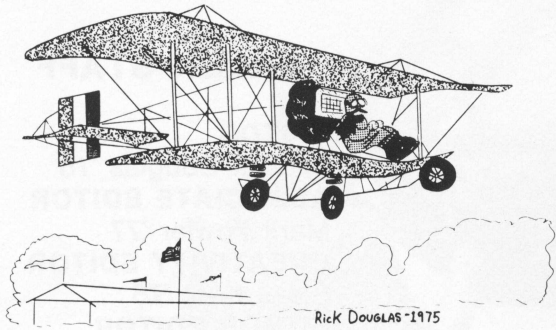
Miss Paula McGlynn

(Photo by Rick Douglas '75)

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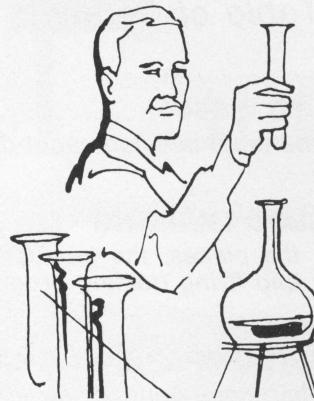
DOUGLAS VALLEY EDITOR'S PAGE

Progress Through Teamwork

Talk about Air Force progress and teamwork, take a look: Implemented new AF-wide personnel programs: Joint Uniform Military Pay System . . . new OER system . . . achieved 100% of recruiting objectives; increased quality . . . women in AF increased 23% . . . placed women/minorities in hard-core skills and in career development categories for top management jobs. On-schedule delivery of first production of F-15 to TAC . . . F-15 increases air superiority capability . . . A-10 on the way . . . YF-16 coming, too . . . tested AWACS and it looks good for survivability and ECM resistance . . . accepted first E-4A for use as NEACP . . . showed feasibility of air-launched ICBMs from C-5 . . . improved strategic forces by replacing last of early model MINUTEMAN I missiles with MM III . . . rolled out B-1, a real beauty.

In strategic airlift, major efforts underway to enhance global airlift . . . air refueled C-5 flights across Pacific and Atlantic . . . consolidated tactical airlift under MAC . . . demonstrated our airlift support of NATO . . . introduced some laser-guided cluster bomb munitions in Europe . . . also MAVERICK . . . established Allied Air Forces Central Europe HQ to enhance NATO's command and control . . . SR-71 New York to London and London to Los Angeles world speed record flights. Two ANG F-102 squadrons converted to F-106s . . . three ANG squadrons converted to new production A-7s . . . began training ANG crews and maintenance people in KC-135s. AF rescue forces saved 547 lives worldwide . . . AF community services programs benefited 2.5 million people . . . AF participated in disaster relief programs from eradication of cattle pestilence in Puerto Rico to airlift of supplies to flood victims in Bangladesh, Burma, Chile, Bolivia and Philippines . . . droughts in Mali, Chad and Mauritania . . . hurricanes in Honduras . . .

The Air Force is becoming a lean and tough combat air arm of motivated professionals . . . *a great team!*



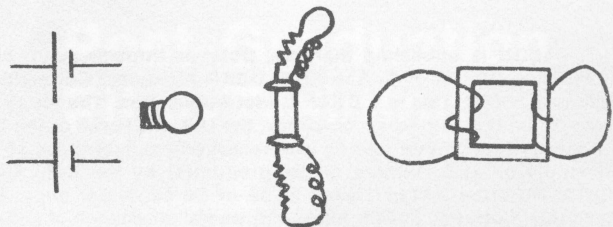
PROFESSOR NINO'S BASIC PRECEPTS OF SCIENCE

In an effort to aid freshman chemistry, sophomore physics and mech, junior electrical engineering, and firstie aero/astro/math "triple-majors," *TALON* provides the laws of science essential to their progressive academic status.

Unless you can write out answers to the following questions in a reasonable amount of time (a few hours) without notes or references, you are advised to give up science for Lent:

During a recent physics exam over magnetism several students were seen holding their right hands in front of them, making a fist, and pointing their thumbs at the ceiling. Meanwhile, many other students (the majority) were seen pointing their thumbs at the floor while holding their noses and sticking their tongues out. Explain this phenomenon.

In the diagram below, draw in the leads needed to make these components into a flashlight, a crystal radio, and a Planck's constant detector.



PASS IN REVIEW

THIS IS YOUR CAPTAIN SPEAKING

by WALT and ANN BOHRER
192 pages. Aero Publishers, Inc. \$7.95
Release Date: 20 Feb 75

Here is a book that embodies airline hiAIRity to its fullest; the book that captures some of the crazy happenings aboard airliners from the Ford trimotors of the 1920's to the modern jetliners of the 1970's — a full half-century of shenAIRigans as related to the authors by the captains of 36 airlines around the world.

Belly laughs by the score, all to which airline passengers and airline crews alike can relate, fill its chapters. If what America needs mostly now is a good, rib-tickling chuckle, *THIS IS YOUR CAPTAIN SPEAKING* . . . is just the ticket!

This 192 page hard cover book illustrated with photos and cartoons, is available from bookstores or direct from Aero Publishers, Inc., 324 Aviation Road, Fallbrook, California 92028, for \$7.95.

THE RAINBOW MEN

by DOUGLAS SHELDON
496 pages. Doubleday. \$10.00
Release date: 14 Feb. 1975

This panoramic novel-bursting with characters, action, romance, love, and adventure-is set in wartime England, and in Berlin, Hollywood, and London after the war.

It is the story of the crew of the "Lady Bee", a B-17 bomber based in Britain during WWII, and centers on the friendship of two American pilots, and the two Englishwomen they love. Powerful scenes of aerial combat alternate with the tragedies of personal relationships in war. Then the book follows the postwar career of one of the pilot's sons.

THE RAINBOW MEN is a sweeping tale, spanning two generations, about men and women united in tragedy and triumph by the dreams they cannot abandon.

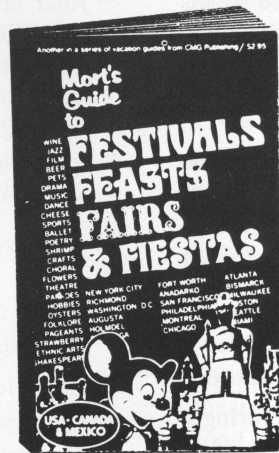
MORT'S GUIDE TO FESTIVALS, FEASTS, FAIRS & FIESTAS

By MORT BARISH and MICHAELA M. MOLE

171 pages (U.S. edition) 185 pages (International edition)
CMG Publishing Co., Inc., Box 630
Princeton, N.J. 08540

MORT'S GUIDES TO FESTIVALS, FEASTS, FAIRS & FIESTAS, two new paperback books, are available in editions covering North America and an International Edition that spans 118 countries.

In every part of the world, every day of the year, there's a party going on. A festival, feast, fair or fiesta. *MORT'S* two new *GUIDES* tell all about them. The Guides include all the popular festivals, such as film festivals, music (from Bach to Rock) festivals, food, drink, dance, religious, and other feasts, fairs and fiestas that cadets just can't afford to miss out on!



MORT'S GUIDES tell where the festivals are, the time, the place, what they're all about, and who to contact for more details.

The North American Festival Guide contains 4000 festivals, while the International Edition spans 118 countries and has 4500 different festivals.

MORT'S FESTIVAL GUIDES are available from the publisher for \$3.75 a copy, which includes postage and handling, or at bookstores. North American or International Edition must be specified.

MORT'S GUIDE TO LOW-COST VACATIONS AND LODGING ON COLLEGE CAMPUSES

By MORT BARISH and MICHAELA M. MOLE

219 pages (U.S. edition); 171 pages (International edition)
CMG Publishing Co., Inc., Box 630,
Princeton, N.J. 08540

MORT'S GUIDE TO LOW-COST VACATIONS AND LODGING ON COLLEGE CAMPUSES is also available in North American and International editions which describe 346 colleges and universities in 47 countries that offer hospitality to students, families and groups.

Travelers can stay in private, two-in-a-room accommodations, for as little as \$1.00 to \$5.00 a day.

The campus visitor gets to use the sports, recreational, and cultural facilities free.

Overnight accommodations in Turkey for \$.70 a day. \$.40 a day in Yugoslavia. New York City \$5.00 a day. France \$2.52 a day. New Orleans \$2.75 a day. Belgium \$3.60 a day. Egypt \$1.50 a day. Finland \$1.10 a day. Plus 336 additional locations in the United States, Canada, the Caribbean and Brazil, Europe, Africa, Asia and the Pacific — all at comparable savings. Many are open year 'round!

Most campuses keep their cafeterias, coffee shops or restaurants open all year. \$.85 is average for breakfast. \$1.25 for lunch. \$1.75 for dinner. And, the International Guide provides money exchange rates for all the countries listed, making it easy to plan a budget for your trip.

The Guides tell you whom to contact for reservations, activities available on campus or nearby, tourist attractions in the area, rates, dates . . . all you need to know.

MORT'S GUIDES are available for \$3.75, which includes postage and handling, from the publisher, please specify USA/Canada or International Edition. Also available in bookstores.

THE SECRET LIFE OF WALDO F. DUMBSQUAT



by Don Hall '76

C/4C Waldo F. Dumbsquat walked into the cadet barbershop. He made it a regulation habit to visit the shop once a week; he liked to read the excellent magazines available there such as *Life*, *Look*, and *The Saturday Evening Post*. The doolie waded through the piles of hair on the floor, took a number off the wall, and sat down. Waldo's number for service was 587.

"Number 37, please," called out the barber wearing the tomahawk in his belt.

Waldo shifted uneasily in his chair and glanced at his number again. It still said 587. He waited as the procession of cadets passed solemnly through the barber chairs.

"Number 1, please," called out the barber, patting his German Shepard with a red-tipped cane.

The number cycle had started over. Waldo looked at the card he held again and deduced that his number would not come up for a long time. (His brain was working in 'Fox mode' - - D.H.). The fourthclassman put down the copy of AFRCR 514-4 he had been studying. As he stood up to leave, a barber shouted out another number.

"587."

The astonished doolie settled himself into the chair. The barber went on his coffee break. Waldo looked imploringly around the room. The barber carrying the cane happened to notice Waldo's plight.

"What are you doing there?" demanded the barber.

Waldo clanked.

"Well, what do you want?"

An "A" on my chem lab and a free weekend, thought Waldo to himself. "A haircut, please, sir," remembered Waldo out loud.

"Are you sure you don't want a transplant; you're almost bald!" proclaimed the barber. "Talk about nega-burns — you've got ingrown hair."

The doolie felt the entire room looking at him.

"Just give me an outline, please," said the doolie cheerfully.

"I'll have to use a grease pencil to draw one in," retorted

the hair expert. "Now hold your head still; don't move a muscle." The barber picked up some clippers, which buzzed menacingly and appeared more appropriate for a hedge.

Waldo held his breath as the barber trimmed his eyebrows. He winced as a few eyelashes were clipped away.

"Darn it, I told you not to move. Now I'll have to try and even them up!"

Waldo decided not to ask for a shave. When the barber finally spun Waldo around to face the mirror, the fourthclassman didn't like what he saw. But the harried Waldo nodded his approval and escaped from the chair with his life. As he initialed the clipboard, Waldo noticed that the clipped hair had absorbed magically through the protective bib and had mysteriously adhered to his uniform. Some of the more aggressive hairs had jumped down the neck of his class shirt and were now beginning to itch. Heading for the mailroom, Waldo heard the barber shout: "Number 2, please."

The mailroom was busy with "Not Yet" activity as cadets cursed their empty mailboxes. Waldo amazingly found a letter pinning his spider to the side of his box. Hurriedly, he tore it open.

Dear Waldo F.,

How are you? I'm fine, thanks, I'm sorry I couldn't come out this issue, but that's the breaks of a fourthclassman's life (especially when you're a character in a magazine). I'm very busy, so you're lucky I could find time to write to you. I'm still working as a dietitian and food taster for the S.P.C.A. I'm almost done with my correspondence course in Bacteriological Warfare. Your dog ran away from home. So did your sister, Lardo. McDonald's arches fell yesterday in a bad wind storm — he needs to wear corrective shoes now. I got a ticket last week for "para-sailing under the influence."

Nothing much is happening. Be good.

Your girlfriend,

Purina Dogget

Purina Dogget

Waldo's little heart throbbed with love for his dear Purina. He always enjoyed her letters; they lifted his spirits and gave him strength to go on. The doolie felt a warm glow in his heart that could have easily been gas from the Shepherd's pie at lunch.

Waldo stopped at the shoeshop to pick up some shoes (odd as it may sound). He presented his claim stub to the girl at the counter.

"I'm sorry, but your shoes aren't ready yet," announced the girl behind the counter.

"Pardon me, ma'am, but that's what you said last semester. How long does it take to put taps on a shoe, anyway?"

The girl behind the counter broke into tears. "Do you think I really want to be here? I don't really care about your shoes!" she said hysterically. Waving an arm toward the mountain of shoes behind her, she sniffled: "I'm surrounded by heels! Day-in and day-out you guys come in here and

shove stinking shoes in my face. And do you know how hard it is to stamp these receipts with your library card? Why won't one of you cadets take me away from this misery!"

Clutching his stub, Waldo carefully backed out of the shop. He didn't really want his shoes that bad; besides, he had two more pair just like them. Still, he felt sorry for the girl behind the counter. A determined look crossed Waldo's face (or maybe it was the Shepherd's pie again) and he leaped into a nearby latrine. Before anyone could say "Gnome", the doolie emerged as the infamous Colonel Waldo F. Dumbsquat, a man who always inspected Second Group. The Colonel walked into Command Post and grabbed the P.A. microphone from the startled NCOD.

"Attention all you cadets out there, attention all you cadets out there. Dumbsquat here. Now listen up because I'm a man who never repeats himself. All firstclassmen who are not engaged are to report to the shoeshop ASAP. Rings and proposals will be carried. Remember to take a number. That is all. Dumbsquat out."

His authority unquestioned, Colonel Waldo F. Dumbs-

quat walked out of Command Post as the SOD prepared to report to the shoeshop. Mission accomplished, Waldo resumed his usual puny self, and returned to clean the fingerprints off his door.

* * * * *

"Did you hear the good news?" exclaimed C/4C Regs Buch, spit-shining his floor with a cotton ball.

"No, Where'd you get a radio?," Waldo questioned suspiciously.

"Not that kind of news, Waldo. We did so well on the phase test that we're going to get civvie clothes, stereos, rings, and cars!"

"Who said?"

"Greg Granite found out at rifle practice and told Joe Jock at Rugby practice, and Joe told Warren Heels at fencing practice and Warren told me in the south latrine."

"You shouldn't tell anyone until it's official," Waldo cautioned.

Regs frowned. "What good is a rumor if you can't spread it?"

GENERALLY SPEAKING

"One day someone else will be sitting, probably, in the chair each of us is occupying now. Our tenure, at best, is brief. Someday someone will find "a better way" to do everything we are doing now. Some refinement, some creative insight, some hard work, some study, some unforeseen approach will suggest a better way. Someone will improve every product, every function and every activity. Everything! The "better way" may be found five or ten years from now, next year, in a few months, next week . . . maybe tomorrow. Maybe you can find the better way. Wherever you are, you can do it. Why not today?"

MAJOR GENERAL GUY E. HAIRSTON, JR.
DIRECTOR, OFFICE OF INFORMATION
SECRETARY OF THE AIR FORCE

"The United States Air Force came out of (the Vietnam War) probably the most experienced air arm in the world, officered and manned by a new breed of Air Force person, without the slouch-capped cockiness which made our airmen famous in World War II. The new breed gave rigid attention to the details required in the operation of highly sophisticated, modern aircraft in an era which marked the advent of electronic dominance in air operation. The Air Force is ready, willing and able to perform whatever it might be called on to do in the event that the United States is forced to defend itself or to fulfill its obligations to the several countries to which it has committed itself."

MAJOR GENERAL BARRY GOLDWATER
USAF - Ret.

"The Air Force wants people who ask questions, seek new answers, and find better ways of doing things. We welcome *constructive* criticism, but we want to see it followed up with constructive action. Contrary to a popular stereotype, we in the Air Force are receptive to new ideas and different ways of operating, managing, and leading.

We do not want a force of unquestioning and unimaginative followers. The Air Force today — perhaps more than ever before — needs individuals who will evaluate every aspect of their jobs, find better ways of doing them, and challenge the status quo.

In my view, however, the opportunity to challenge the status quo carries with it three obligations. The first is to back up your criticism with facts and to present your views rationally. There is a difference between complaining and constructive criticism. The second obligation is to propose good alternatives, ones that will work with available resources. And the third obligation, in the Air Force at least, is to accept without reservation an adverse decision and work steadfastly for its success."

MAJOR GENERAL W. Y. SMITH
DIRECTOR OF DOCTRINE, CONCEPTS
AND OBJECTIVES, DCS,
PLANS AND OPERATIONS



DISTINCTIONS

Sitting on your bed with fluid eyes,
 Those childlike eyes that question mine
 now standing at your door,
 Telling me you never could believe time flies
 Like lovers that you've had
 and have no more.

As for me?

As usual I listen to everything you say
 And act so goddamn understanding
 by your bed,
 When inside I scream to be shown a way
 To let these pressures
 from my head.

As for me?

I'm a crazy man, I worship the moon.
 I'm not the man you see
 or feel.
 I need my pen and paper, and need to take
 flight soon,
 For I cannot grasp distinctions of fantasy
 from real.

—Walter R. Washburn '79

PEOPLE

*poor, moneyless
 lacking, wanting, seeking
 jobs, money, luxuries, responsibilities
 finding, advancing, cursing
 foolish, rich*

ROBOTS

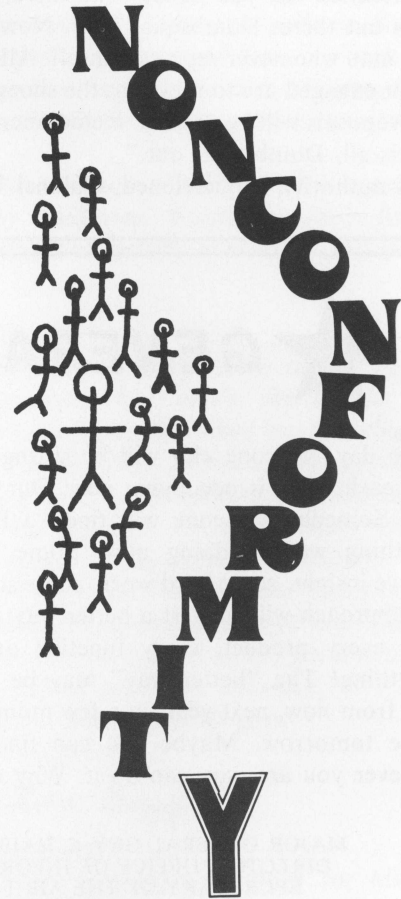
—Richard W. McAlister, '75

MAN

*dominating, powerful
 loving, moving, hating
 work, live, pray, reproduce
 depending, loving, consoling
 lovely, ever-present*

WOMAN

—Gerald F. Micheletti '75



Adult husbands have more loves than one.
 They sully their chosen, their knotted vows.
 They cherish their riotous midnight fun
 With affected, unfeeling, painted sows.
 It matters not who they do, what they do,
 For nameless faces will remain unchanged,
 And love will ne'r find way to force them true
 To one who has had life rearranged
 By lopsided love and misguided passion.
 Onward then, callous ones, forever you are blind
 To destruction of the brittle-strong bastion
 That protects Love and Hope. (them you will ne'r find)
 But day will come, your lusty lovers are not there
 And the one you love, no longer will care.

—Alan R. Van Epps '75

I LISTEN

*I can do nothing but listen,
and where there should be sounds
of human voices and laughter
quietness reigns and drains the air,
to haunt as I walk alone.*

*I'll shout and sing, I'll make the sounds
and hear a chorus and a grand opera.
Clarinets and then saxiphones come charging in
Indeed the music suits me, it's mine alone.*

*But the orchestra fades as I lose my breath
until all that can be heard in the lull of night
are the pounding drums of panting breath*

*And, once again, the silence so cruel
has left me to my loneliness.*

*And I can do nothing but walk and listen.
—Steven J. Kent '75*

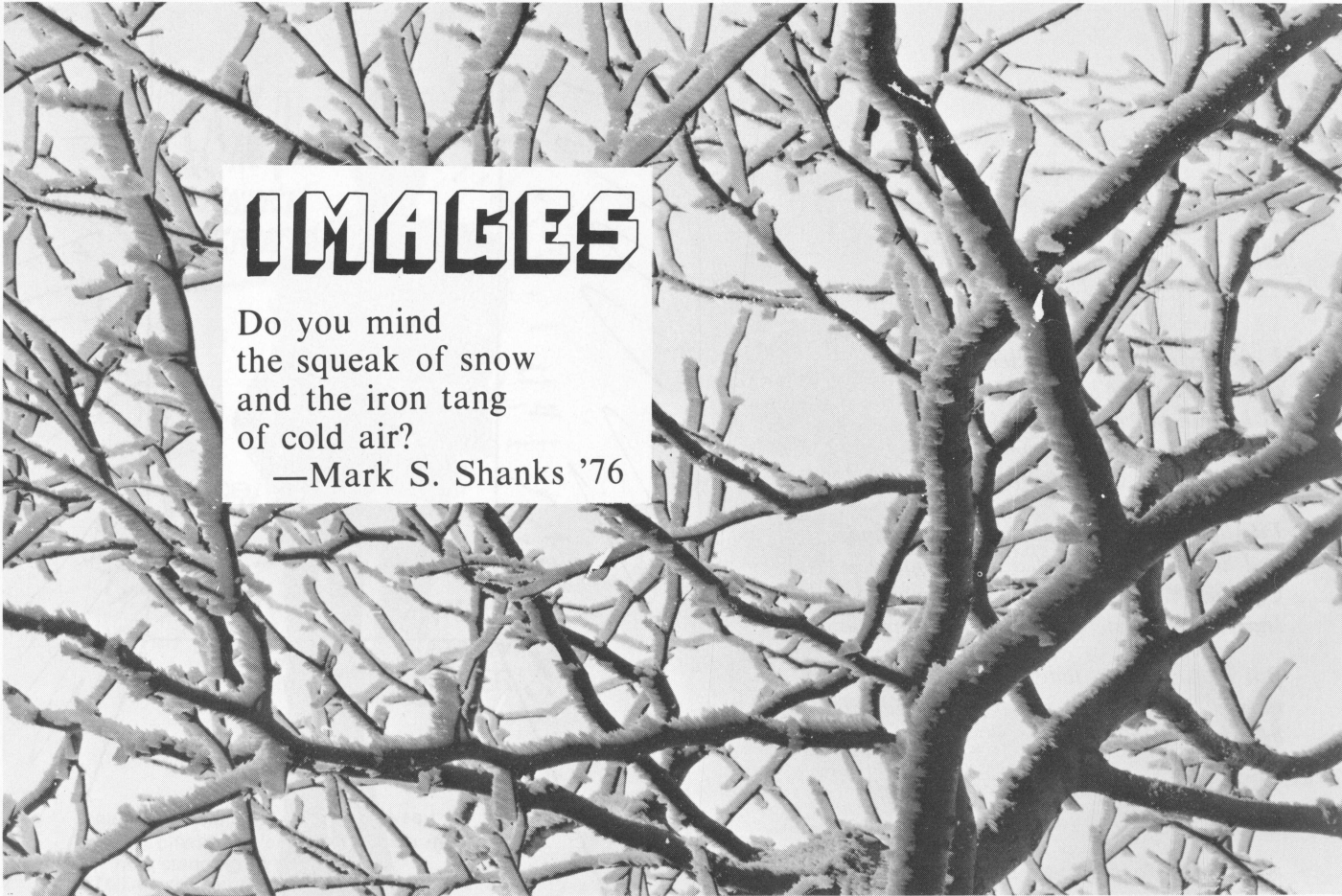


—TOM UDALL



*It does no harm to me to know they say
There is not love between us anymore.
Despite the jealous protests they may lay,
It's you and you alone that I adore.
And even though I once could not have stood
To see you glance upon another man,
Today I would not stop you if I could,
My hand is yours as long as I've a hand.
For though in truth you do not stand above,
Your heart is like an angels sunny heart.
I know an angel must not horde her love.
And what a foolish mortal I would be
To claim your love for me and just for me.*

— Dale Waters '75



IMAGES

Do you mind
the squeak of snow
and the iron tang
of cold air?

—Mark S. Shanks '76

LIFE

*free, open
exciting, challenging, changing
forests, glades, buildings, cities
conforming, accepting, doting
closed, controlled*

EXISTENCE

—Richard W. McAlister '75

*My life is dead
I have lost "Me"
Through mazes black I tread
My life is dead
I am society instead
God why should this be?
My life is dead
I have lost "Me"*

—Richard W. McAlister '75

PROCESSION

*I once played in an orchestra,
Now all I do is listen.
Once, I had known of the tune of love,
But now the notes are distant.*

*I hum a tune of parted ways
With both despair and delight,
But these melodies of mellow days
Too quickly fade to night.*

*A slow march plays and I walk ahead,
Of the mournful melody so well known
The rows all go to where they are led
Except for me; I walk alone
Pause for a moment to glance behind
To where the lifeless columns of life
Continue to march
never slowing the beat
or missing a step
until the final row has passed me by,
grown faint, and left me to the lull of night.*

—Steven J. Kent '75

PRAYING MANTIS

With emotionless looks of inanimous
An insect melts into the grass;
And reeling from the smells of summers past
I'm lost in a country scene of fantasy.

Sometimes I feel safe only when I run away
And wander in the fields and forests in my head.
Sometimes I see a child, sometimes I see I'm
dead,
Yet gazing at reflections in crystal streams, I pray
For even as I watch, a dancing moth is snatched
from play,
Twitching broken wings. The mantis eats with cold
efficiency,
Leering with those bulging eyes that see
My quiet desperation in a stark, impersonal way.

—Walter R. Washburn '76



SONNET

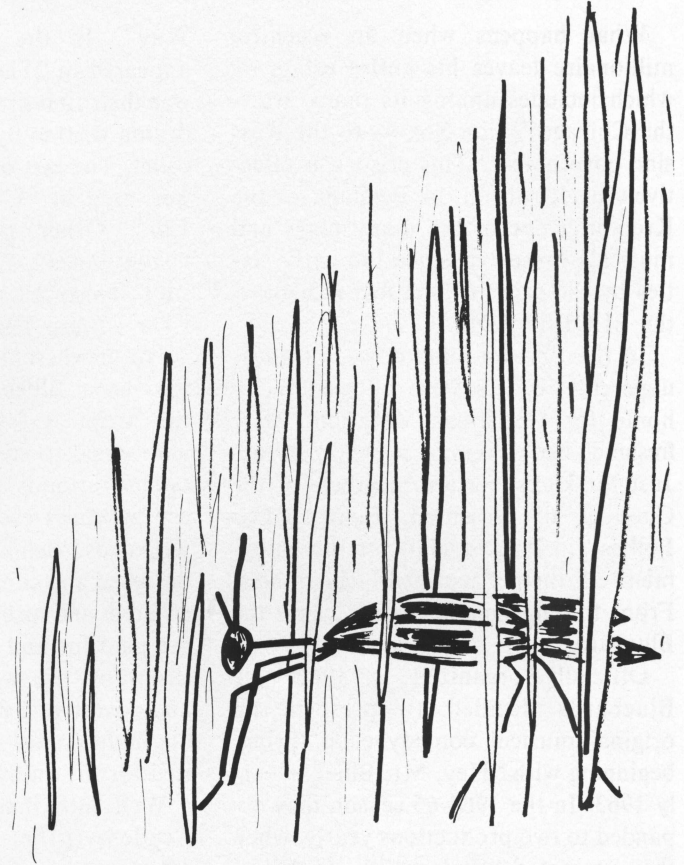
My Love awaits and I unbidden go.
I seek her form in forests and on plains,
In mountains high and in the river's flow,
The root of life and chord of music's strains.

Oh Love, come unto me, come meet me here
And we shall lie together for all time.
Your sweet embrace allays all of my fear
And holding hands we onto heaven climb.

Shall I seek you or do you seek me first?
Of this I'm sure that we shall meet at last
And I will end my longing, and my thirst.
All other joys but thee back will I cast.

For on the earth I've lost life's peaceful dove
And so I seek but thee Sweet Death My Love.

—Richard W. McAlister '75



FOR MARYANNE

Whence flow the words to paint
This heart so great with yearn
For lingered grace still faint
That wisks my skin and burns?
Rush swiftly to my side.
Your showers, let me feel,
As hawks in heavens ride
Do cleanse in winds yet real.
My mind slips far to seek
That face it prays appear,
While left no words to speak,
My fountain pours its tears.
O Love, arrest this storm,
In you my peace is born.

—Lance Perdue '76

BLUEBARDS

1962 to "1984"

—by Rick Douglas '75
Bryon Mills '77

What happens when an eccentric millionaire leaves his entire estate — which includes among its many assets the Chicago White Sox — to the Russian government? This crisis was effectively dealt with in "A Pennant for the Kremlin", one of the many plays and musicals presented since the early sixties by the cadet dramatical society — the BLUEBARDS.

In the "brown shoe days" of 1961, upperclass cadets were allowed to go home for Christmas Vacation, while freshmen had to remain at the Academy. Just for kicks, certain members of the Class of '65 presented "Fourth Class Follies" in Arnold Hall for the enjoyment of their "confined" classmates. From this meager beginning came the BluebarDS.

Officially organized in 1962, the BluebarDS decided to perform an original musical comedy each spring, beginning with "Hey, Mr. Blue" in early 1963. In the 1964-65 season they expanded to two productions yearly, when they presented "Stalag 17" and "They Don't Pick Daisies on the Great White

Way". In the fall of 1966, cadets appeared in "The Twisted Sun", which was their first drama, as well as the first drama written by and copyrighted by a cadet. The last original Bluebard script was used in "USAFA 1984" in early 1967. Other productions included: "Tom Jones", "The Devil's Disciple", "L'il Abner", "West Side Story", and "The Mouse That Roared".

An unbelievable amount of work goes into each Bluebard production. After the script is selected, then parts are auditioned to cadets and local females, orchestration is arranged for, and there are practices every other night and on weekends. Behind the scenes, sets are designed and constructed, lighting coordinated and props appropriated. Bills are paid for and accurate records kept. Programs are written, tickets printed, and advertising distributed. Finally, the big night comes when everything is united for the enjoyment of the audience.

Well into their 14th season at the Academy, the BluebarDS presented "Godspell", a musical based on the gospel according to St. Matthew.

Dressed in outlandishly colorful attire and singing a variety of vaudeville, folk ballad, rock and minstrel numbers, the coed cast delighted record audiences two consecutive, mid-November nights. Appearing in that cast, and for their fourth straight year in BluebarDS, are seniors: Tom Knabel, Steve Duresky, the director of "Godspell", Mike Marro, and producer, John Ossif.

The dramatic society's present intentions include two spring productions. In late March the BluebarDS will perform George Orwell's "1984", a serious drama about the famous authoritarian-utopian society (for further information contact C2C Pat Flanagan, CS-16). Then on April 4-5, Jerry Sink ('78), the cadet who performed outstandingly as Jesus Christ in "Godspell" (his first Bluebard production), will present Neal Simon's "Plaza Suite..". This series of three one-act plays will include KIIQ disc jockette, Carly Simon, in a starring role. The actors will appear on a specially constructed horseshoe-shaped stage in the Cockpit Lounge, such that the audience is located in the middle of the action while being able to enjoy refreshments from the lounge's snack bar. Fourth classmen are urged to support this production, as it is designed to be the first all-freshmen presentation since "Brewsie and Willie" in 1972.

The executive committee of the 1974-75 BluebarDS includes: William O. Carroll ('76), Cadet-in-Charge; Thomas E. Sawner III ('76), Business Manager; Patrick R. Flanagan ('76), Production Director (he will select the cast and direct "1984"); Patrick C. Wettstone ('77), Technical Director (responsible for set design and construction, and serves as stage manager for "1984"); Donald F. De Veux ('77), Society Coordinator (arranges trips and social aspects for "1984") and Assistant Production Director; Bryon M. Mills ('77), Publicity Director.



—RICK DOUGLAS

A scene from last November's hit musical "Godspell" includes Bluebard cast members (from left to right): Paul Voudouris ('78), Steve Duresky ('75), Miss Anna Villanueva, Jerry Sink ('78), Miss Becky Seykora, Pat Flanagan ('76), Miss Pam Johnson, Miss Julie Hickman, and Don DeVeux ('77).

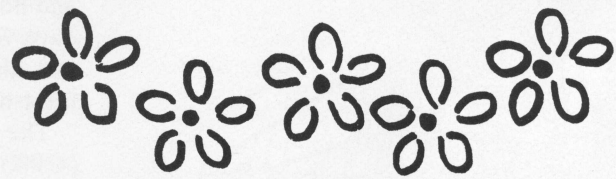


PAULA!

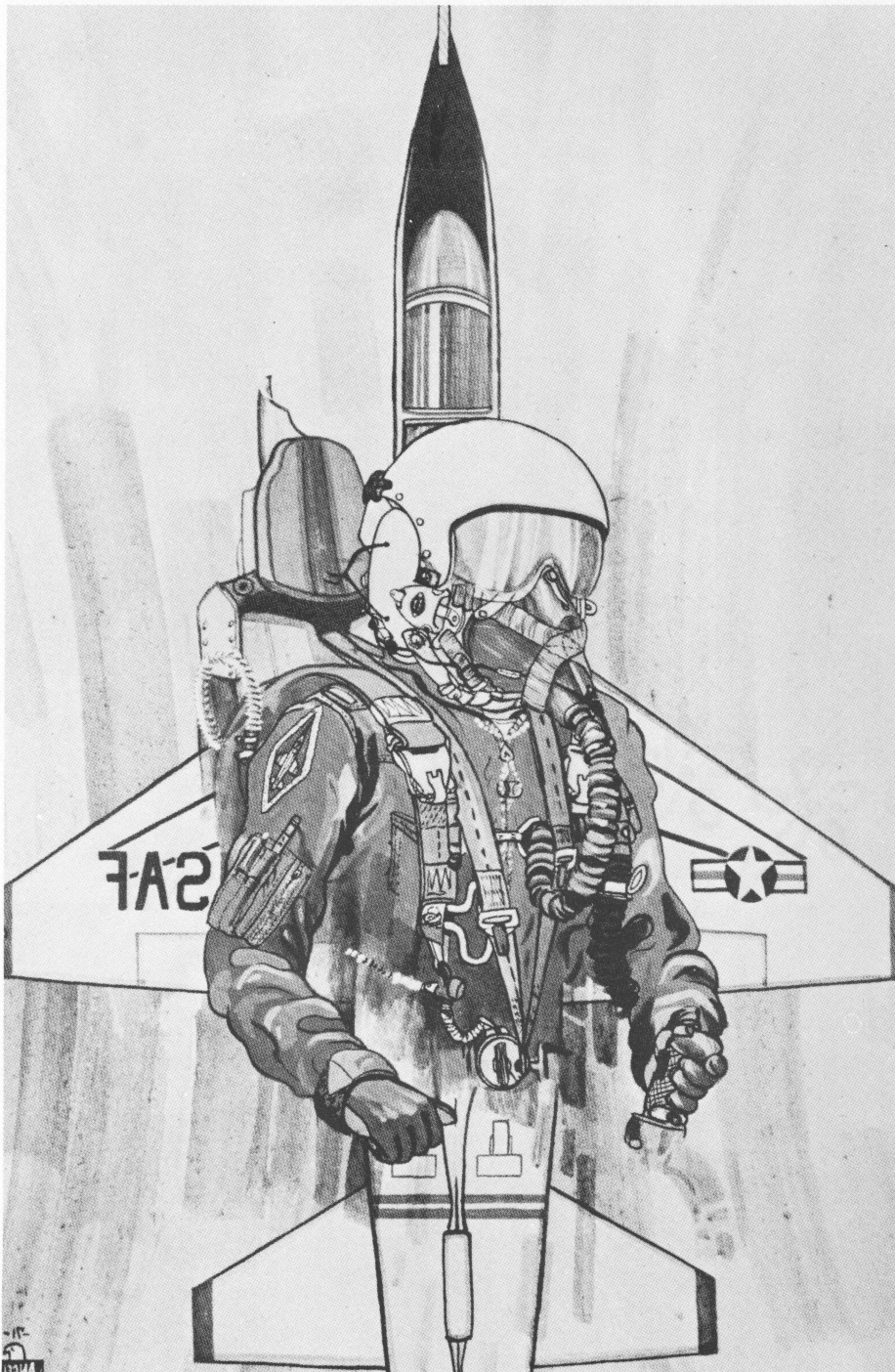


No stranger to the military, Paula McGlynn, 19, is the daughter of a retired Air Force Master Sergeant and works as a luncheon waitress at Ent Air Force Base Officer's Club. Born in New York City, Paula enjoys dancing, skiing, modeling, playing football, and "adores" plants. Presently a sophomore at El Paso Community College, Paula is preparing for a career in psychology.

—Photos by Rick Douglas '75



UNDERGRADUATE PILOT TRAINING



The business of flying airplanes has changed dramatically since the Wright brothers' historic achievement at Kitty Hawk. Leather helmets and open cockpits have given way to pressurized flight suits and aircraft that can exceed three times the speed of sound. While still dedicated to a demanding job, today's new breed of pilots is different. Flying is now a much more scientific and sophisticated thing from short hops to massive strategic airlift — even a trip to the moon.

U.S. Air Force pilots are among the best trained and most professional aviators in the world. Applicants for pilot training must be between the ages of 20½ and 26½, have a college degree, pass a rigid physical examination, and score a satisfactory grade on the battery of tests comprising the Air Force officer's qualifying test (AFOQT).

Pilot trainees come from a number of different sources, including Air Force Reserve Officers Training Corps, Officer Training School, Air Force Academy, and from those navigators and nonrated officers already on active duty. Since the aviation cadet program was eliminated in 1961, all pilot trainees must now be commissioned officers.

The undergraduate pilot training (UPT) program, initiated in 1961, enables the pilot trainee to complete his training while assigned to one base. This eliminates unnecessary student moves and reduces training costs.

The training program at UPT bases totals approximately 1,000 hours in the 49-week course. The normal breakdown includes 210 flying hours, around 500 hours in academic and military training, and about 75 hours in synthetic trainers, or flight simulators. These totals do not include preflight and postflight briefings or individual student preparation.

Undergraduate pilot training is conducted at eight Air Training Command (ATC) bases: Craig AFB, Ala.; Williams AFB, Ariz.; Moody AFB, Ga.; Columbus AFB, Miss.; Vance AFB, Okla.; and Laughlin, Reese, and Webb AFBs, Tex. Sheppard AFB, Tex., trains only foreign pilots.



T-38



T-37



FLYING TRAINING

Initial training is conducted in the twin-engine, subsonic T-37 jet, a fast and rugged aircraft that is equal in speed and maneuverability to most of the fighters of World War II. The student receives 90 hours of flying instruction in the T-37.

The student and his instructor, seated side-by-side in the T-37, are assigned a specific practice area. During training flights, each lasting approximately 80 minutes, the student learns the characteristics of the aircraft; emergency procedures; takeoff and landing techniques; aerobatics; and night, instrument, and formation flying. He also gets experience in navigation and cross-country flying.

After the T-37 phase of training, the student transitions to the T-38 Talon, the Air Force's first supersonic undergraduate pilot training aircraft. Its twin jet engines can boost the Talon to a speed in excess of 800 m.p.h. (Mach 1.2) and to an altitude above 50,000 feet. The T-38 provides excellent preparation for future transition to high-speed operational aircraft.

Of the 120 flying hours in the T-38, the student spends approximately 26

hours on instruments, 36 hours on contact missions, 18 hours on navigation flights, and 40 hours on formation flying.

ACADEMIC AND MILITARY TRAINING

When he isn't flying, much of a student pilot's 12-hour workday is taken up with class briefings, physical training, simulator practice, or evening study. Academic training includes navigation, flight planning, weather, aerospace physiology, aircraft systems operation, radio code, aircraft accident prevention, principles of flight, applied aerodynamics, flight instruments, and instrument procedures. Military training subjects include officer career planning, physical training, and moral leadership.

INSTRUCTORS

Flying instructors are specially selected military pilots and graduates of the Air Force Pilot Instructor Training School at Randolph AFB, Tex. Instructor pilots (IPs) must meet rigid personal, flying, and professional standards.

Each IP is normally assigned two or three students. The IP is basically a

teacher who must have patience, a keen understanding of human nature, and an eye for painstaking detail.

The instructor is supplied with some of the most modern and effective teaching aids. One of the more recent is a computer which stores each student's record of training activities. This provides the instructor with access to all training information on each of his students. Those who are experiencing difficulty in any portion of flying training can be identified early and corrective action taken promptly.

The competence of the instructor pilot is clearly demonstrated by ATC's outstanding flying safety record. At the end of calendar year 1973, ATC's accident rate was a low 1.3 accidents per 100,000 flying hours.

GRADUATION

After a long period of intensive training, the final realization of each student's goal comes with graduation. The coveted pilot's silver wings he receives climax almost a year of dedicated effort and mark the beginning of an exciting career as an Air Force pilot.

UNDERGRADUATE PILOT (UPT) and HELICOPTER (UHT)

-PAINTING BY RICHARD R. BROOME

	COLUMBUS	CRAIG	LAUGHLIN	MOODY
T-37/38 HOURS	T-37 90 T-38 100	90 100	90 100	85 - 90 115 - 120
BX	FAIR TO GOOD	GOOD	AVERAGE	GOOD (RECENTLY ENLARGED)
COMMISSARY	GOOD, BUT CLOSED SUNDAYS	GOOD - PROVIDES BRAND NAMES	GOOD - PROVIDES BRAND NAMES, BUT CLOSED SUNDAY AND MONDAY	GOOD (BEING RENOVATED)
HOSPITAL	EXCELLENT FACILITIES ON BASE, KEESLER AFB IN 100 MI., MAXWELL 150 MI.	USAF CLINIC WITH AN OUT PATIENT CARE 6 CHAIR DENTAL CLINIC GOOD FACILITIES	25 BEDS - GOOD	20 BEDS, SHORT TERM AND GENERAL HOSPITAL
AUTO HOBBY SHOP	EXCELLENT	GOOD	EXCELLENT	VERY GOOD
NEAREST CITY	COLUMBUS 15 MIN.	MONTGOMERY 50 MI.	SAN ANTONIO 150 MI.	ATLANTA (4 HOUR DRIVE), TALLAHASSEE, JACKSONVILLE 100 - 120 MI.
NEAREST TOWN	AMORY ABERDEEN WEST POINT	SELMA 5 MI.	DEL RIO	VALDOSTA 10 MI. 2 BOWLING ALLEYS, 2 DRIVE-IN MOVIES, 5 INDOOR MOVIES
WORK FOR WIFE	HARD TO FIND	YES, BUT LOW PAY	TEACHING, NURSING, SECRETARIAL	FAIR, PAY IS LOW TO FAIR
HOUSING ON BASE	MARRIED: UNFURNISHED (6-8 WEEKS WAIT) FURNITURE CAN BE CHECKED OUT (60 DAY WAIT)	5 HOUSING REFERRAL OFFICES - 3-6 MONTH WAIT	3-6 MONTH WAIT VERY BAD, WWII TYPE SINGLE - MARRIED, UNFURNISHED	GOOD - 39 - 3 BDRM., 13 - 4 BDRM., 84 - 2 BDRM., 136 TOTAL.
HOUSING OFF BASE	1 BEDROOM, FURNISHED; \$125 UNFURNISHED \$100 2 BEDRM., FURNISHED; \$150 2 BEDRM. UNFURNISHED \$120	15 TRAILER PARKS \$5 - \$30 15 APARTMENTS FURNISHED \$140-\$180 UNFURNISHED \$90-\$125	ALL MARRIED - GOOD BUT EXPENSIVE AND SCARCE	MARRIED - \$50 - \$200 1 BDRM. - PLENTY, 2 BDRM. - PLENTIFUL, 3 BDRM. - SOME, 4 BDRM. - SCARCE, APARTMENTS, 1 and 4 BDRM. - SCARCE, 2 and 3 BEDM. - AVAILABLE
AVERAGE SUMM. TEMP.	81.3° WEATHER BEST AT END OF SUMM.	82°	82°	90°
AVE. WINT. TEMP.	48.7°	50°	50°	65°
ANNUAL RAINFALL	51.25"	55"	30"	45"
AUTO INS. W/USAA	SAME	SAME 10-20-5	70% HIGHER	HIGHER
COST OF LIVING	BELOW AVERAGE	AVERAGE TO HIGH	AVERAGE TO HIGH	AVERAGE
SURROUNDING COLLEGES	MISSISSIPPI STATE WOMEN'S (3,000) MISS. STATE U.	11 COLLEGES WITHIN 100 MI. GRAD & UNDERGRD. TRAINING ON BASE	GRAD AND UNDERGRAD ON BASE	VALDOSTA STATE FLORIDA STATE
BOQ	SINGLE MUST LIVE ON BASE. EXCELLENT BOQ - SHARE KITCHEN - AIR CONDITIONING	114 RMS. 1 RM. PRIVATE BATH, SHARED KITCHEN	POOR (WWII VINTAGE) SHARED LIVING ROOM, PLASTIC FURNITURE	SINGE OFFICER MUST LIVE IN BOQ. FAIR, 136 UNITS MOTEL SIZE. PRIVATE BATHROOMS.
BANKING	CREDIT UNION 1st COLUMBUS NAT'L BANK BRANCH ON BASE	SELMA NAT'L BANK ON BASE, MONEY BANKS IN SELMA	DEL RIO NAT'L BANK ON BASE, CREDIT UNION ALSO	FIRST NAT'L BANK AND CREDIT UNION ON BASE
SPECIAL SERVICES	WOOD HOBBY SHOP, MODEL AIRPLANE CLUB, MOTORCYCLE CLUB, ROD AND GUN CLUB, TAXI SERVICE	NURSERY, LIBRARY, BASE THEATER, DRY CLEANING, BEAUTY SHOP, WOOD, PHOTO, CERAMIC AND ELECTRONIC	LAKE WITH PICNIC AREAS, RATED EXCELLENT	AF AID SOCIETY, RED CROSS, WOOD HOBBY AND CERAMICS SHOPS
RECREATION	GULF OF MEXICO (5 HRS) EXCELLENT REC. SUPPLY BOATS, MOTORS, TENTS, CAMPING TRAILERS	3 SWIMMING POOLS LAKE ON BASE YMCA, 3 SOFTBALL & 3 BASEBALL FIELDS, 10 BOWLING LANES, DEEP SEA FISHING, 3 HRS. to GULF	3 SWIMMING POOLS 3 SOFTALL FIELDS, CAMPING, FISHING, WATER SKIING ON LAKE MEXICO	2 HOURS FROM ATLANTIC COAST, MISSION LAKE GRASSY POND, PICNICKING CAMPING, SWIMMING POOLS
GOLF	FAIR TO GOOD RENTS EQUIPMENT	9 HOLE COUNTRY CLUB ON BASE 2 COUNTRY CLUBS IN SELMA	9 HOLE PRO SHOP. GOOD.	9 HOLE DIFFICULT ALL EQUIPMENT AVAILABLE
GYM	EXERCISE RM. BASKETBALL, HANDBALL, SQUASH	2 GYMS, STEAM RMS. 15 TENNIS COURTS, WT. ROOM, HANDBALL	4 TENNIS COURTS, WEIGHT RMS., 2 BASKETBALL COURTS, 2 HANDBALL COURTS, SAUNA BATH	BASKETBALL, HANDBALL, VOLLEYBALL, STEAM RM., WEIGHT RMS., SQUASH COURTS
OFFICER'S CLUB	1 BLOCK FROM BOQ, ACROSS ST. FROM HOUSING, LARGE DINING RM., POOL AREA, NO LOUNGE, VERY MODERN	PROGRAMS FOR BACHELORS AND FAMILIES	\$9 PER MONTH MEMBERSHIP, GOOD TO EXCELLENT BANDS BUT NO ONE TO DANCE WITH	\$8 PER MONTH. ONE BLOCK FROM BOQ. AVERAGE LOUNGE, DINING RM., POOL RM.
OTHER	EXCELLENT BASE IN THE HEART OF DIXIE. "CONSERVATIVE SOUTHERN BELLES". 13% WASH OUT.	LEADER IN SOCIAL RELATIONSHIPS (KU KLUX KLAN ACTIVE)	GET THERE EARLY TO GET OFF BASE HOUSING.	GOOD BASE 20% WASH OUT

TRAINING BASE FACILITIES and TOPOGRAPHY CHART

MARCH 1975

-PAINTING BY RICHARD R. BROOME

REESE	HILL (UHT)	VANCE	WILLIAMS	WEBB
90 120	H-1 - 45 (60 DAYS), H-3 - 45 (70 DAYS), H-53 - 42/50, H-43 - 55, HC-130 - 45/62	90 120	90 120	90 120
AVERAGE	NEW, EXCELLENT	ADEQUATE	EXCELLENT	FULL FACILITIES AND FOUR CONCESSIONS
GOOD, CLOSED SUNDAY, MONDAY, AND HOLIDAYS	AVERAGE, USUALLY CROWDED	ADEQUATE	FULL FACILITIES	FULL FACILITIES
GOOD	EXCELLENT FULL SERVICE FACILITY	OUT PATIENT CLINIC ONLY	46 BEDS - NEW	25 BEDS; NEW FACILITY
EXCELLENT, 12 STALLS, GOOD EQUIPMENT	SMALL BUT GOOD FACILITIES	VERY GOOD, BUT SELDOM OPEN WHEN STUDENTS HAVE THE TIME	21 COVERED STALLS, 19 UNCOVERED STALLS, NOMINAL RENTAL FEE	7 STALLS; WELDING STALL; MINIMUM ATC FEES
LUBBOCK 12 MI.	OGDEN 8 MI. SALT LAKE CITY 20 MI.	OKLAHOMA CITY 85 MI. WICHITA FALLS 160 MI. TULSA 125 MI.	MESA 15 MI., PHOENIX 35 MI., TEMPE 25 MI. LAS VEGAS 300 MI.	MIDLAND/ODESSA - 45/60 MI. DALLAS 200 MI.
CARLISLE	CLEARFIELD AND LAYTON	ENID 2 MI.	CHANDLER 10 MI.	BIG SPRING (ADJACENT TO BASE); POPULATION 30,000
CLERICAL, NURSING AND TEACHING	LIMITED, LOW PAY	YES	—	RELIABLE INFORMATION NOT AVAILABLE
WAITING LIST, BUT NEW BOQs UNDER CONSTRUCTION	N/A FOR TDY	VERY LIMITED FOR MARRIED STUDENTS (6 MONTH WAITING LIST)	MARRIED: 90-DAY WAIT, SINGLES MUST LIVE IN BOQ	189 UNITS; WAITING LIST 6 MOS. TO 1 YR; CENTRAL AIR WILL BE INSTALLED IN ALL UNITS BY JUNE 1975
VERY GOOD, FURNISHED \$150 - \$200 UNFURNISHED IS LESS	EXCELLENT, PLENTIFUL, 1 BDRM. FURN. - \$100 - \$150, 2 BDRM. FURN. - \$150 - \$200	VERY GOOD \$110 - \$225	GOOD FURNISHED \$200 UNFURNISHED \$175	RENT HOUSES \$125 & UP; APARTMENTS \$160 & UP
91°	AVG. JULY MAX. 88°	90°	98°	81°
60°	AVG. JAN. MIN. 20°	40°	67°	48°
15"	17" (INCLUDING SNOW)	28"	7.5"	14.9"
SAME AS USAFA	COMPULSORY NO-FAULT	SAME AS USAFA EASY XFER	HIGHER	AVERAGE TO LOW
HIGH, BUT 29% DIVIDEND	AVERAGE	AVERAGE TO LOW	AVERAGE	AVERAGE TO LOW
TEXAS TECH. (PARTY SCHOOL) LUBBOCK CHRISTIAN COLLEGE	WEBER STATE COLLEGE, OGDEN UNIV. OF UTAH, SALT LAKE CITY	PHILLIPS UNIVERSITY (RELIGIOUS)	ASU 24 MI. COMMUNITY COLLEGES	HOWARD COLLEGE AT BIG SPRING, 5 MI.
3 UNITS, ONLY ONE HAS KITCHENS 40 UNITS FOR FOREIGN OFFICERS ONLY	EXCELLENT UNITS USUALLY AVAILABLE, SHARE BATH AND KITCHEN WITH SEPARATE LIVING AREAS.	EXCELLENT, SINGLE OFFICERS MUST LIVE IN BOQ	NEW 2 MAN, AIR CONDITIONING, REQUIRED FOR 2nd LTS. SINGLES MUST LIVE IN BOQ	EXISTING BOQs RESERVED FOR FOREIGN STUDENTS; AMERICAN STUDENTS MUST LIVE OFF BASE
REESE CREDIT UNION, 5.5% DIVIDENDS	FIRST SECURITY BANK ON BASE, FEDERAL CREDIT UNION	CREDIT UNION AND BANK ON BASE		WEBB FEDERAL CREDIT UNION LOCATED ON BASE
NURSERY ON BASE RED CROSS VETERINARY CENTER	BASE SHUTTLE BUS, NURSERY, LIBRARY, TICKET DISCOUNTS, FULL BX COMPLEX	NURSERY AND NURSERY SCHOOL ON BASE, VETERINARIAN, RIDING CLUB	NURSERY CARE AND SCHOOL EVERY DAY	10 LANE BOWLING ALLEY, CERAMIC HOBBY SHOP, LIBRARY, CHILD CARE CENTER, WOOD HOBBY SHOP, THEATER,
CARLSBAD CAVERNS LAKES NEARBY SKIING - 4 HOUR DRIVE	EXCELLENT SKIING, 10 RESORTS WITHIN AN HOUR, SEASONAL HUNTING FISHING, BOATING, WATER SKIING, NUMEROUS CAMPGROUNDS IN AREA	CAMPING & SPORTING GOODS CAN BE RENTED ON BASE (BOATS, TRAILERS, ETC.)	LAKE APACHE 53 MI. FISHING, BOATING, BIG SURF	BIG SPRING CITY PARK; BIG SPRING STATE PARK; COLORADO CITY STATE PARK, 40 MI.; MONAHANS SANDHILLS STATE PARK, 100 MI.
9 HOLE, GOOD COURSE	EXCELLENT 18 HOLE	DRIVING RANGE, 18 HOLE CITY COURSE NEARBY	9 HOLE GOLF COURSE BX-RUN SNACK BAR	9 HOLE GOLF COURSE ON BASE
SQUASH, HIS/HER SAUNA, NO STEAM RM., 2 POOLS, WT. RM., 2 HANDBALL COURTS	FULLY EQUIPPED	BASKETBALL, WT. ROOMS, SMALL SAUNA HANDBALL, PADDLEBALL, SQUASH	NEW EVERYTHING PADDLEBALL, SQUASH, TENNIS, ETC.	ALL GYM SPORTS, STEREO RM.
\$9 PER MONTH (OPENED NOV. 74) \$1 EXTRA FOR WIFE, LIVE ENTERTAINMENT WEEKENDS, 8 LANE BOWLING, THEATER, 6 DAYS PER WEEK	\$7 PER MONTH, EXCELLENT FOOD AND ATMOSPHERE, CIVILIAN ORIENTED WITH AFLC INFLUENCE	NOT LARGE, WEEKLY DANCING PACKAGE STORE, POOL	EXCELLENT POOL, RELAXING AREA	LUNCH AND DINNER SERVED MONDAY THRU FRIDAY; LIVE ENTERTAINMENT EVERY FRIDAY AND SATURDAY NIGHT; CLOSED SUNDAY
	DRY STATE, BEER OR SET-UPS ONLY OFF BASE, SALT LAKE CITY HQ FOR LDS (MORMON) CHURCH.	SMALL BASE FAMILY ATMOSPHERE	NO SIGN-IN HASSLE DON'T ARRIVE EARLY. 25% WASH OUT	BELOW AVERAGE SOCIAL LIFE, BUT BEAUTIFUL GIRLS



—PHOTOS BY RICK DOUGLAS

The Unique World of RICHARD R. BROOME

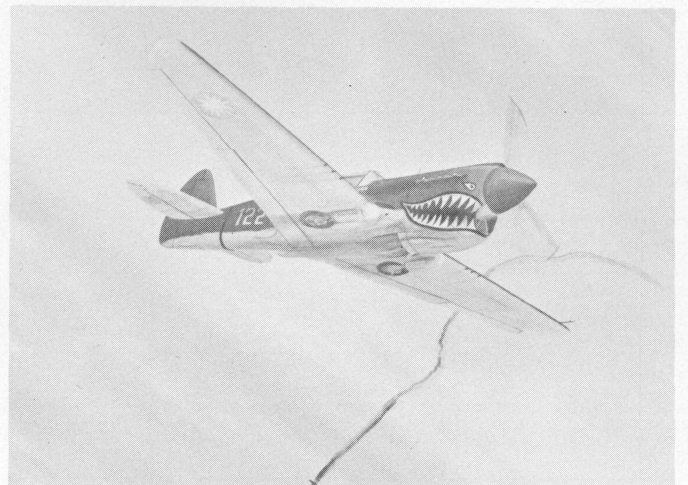
Mr. Richard R. Broome, 28, began painting aircraft at age 15 while attending the Colorado Academy in Denver. He would trade his creations for flying lessons, which helped him to solo at age 16.

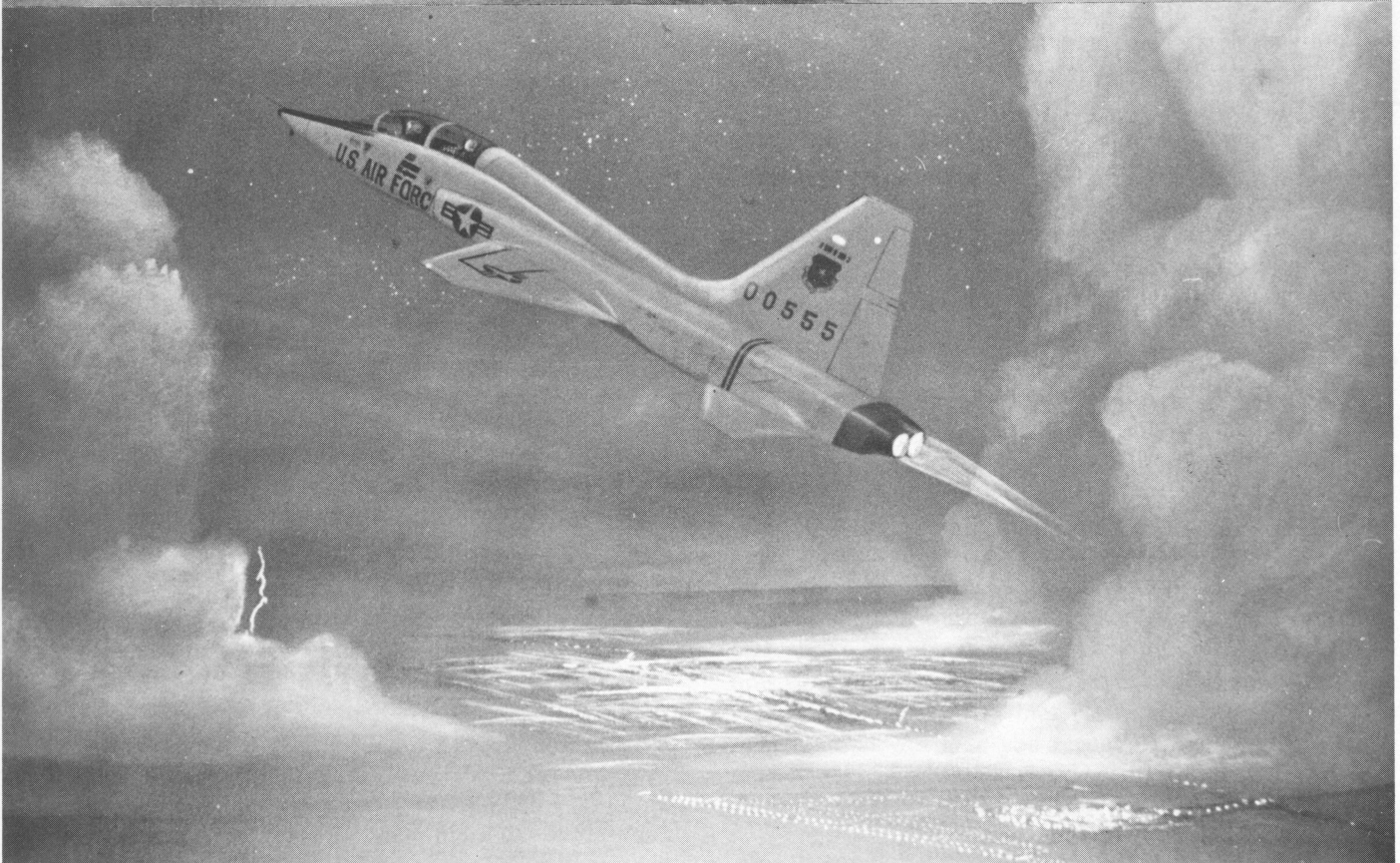
He then attended the Northrop Institute of Technology (Englewood, Calif.), studying aircraft maintenance and aeronautical engineering prior to working for United Air Lines for three years. Increased demand for his unique paintings, which included a normal, daytime representation of an aircraft, plus a nighttime representation when viewed under blacklights, led him to turn to oil painting as a full-time profession in 1970.

Typical paintings are 18" x 24" or 24" x 30" and sell for \$100 - \$1100, however, Mr. Broome works within a framework of subject (type of aircraft) selection and proposed price agreed to with people interested in commissioning him to paint.

Besides the paintings depicted on these pages (and behind the UPT charts on pages 16-17), Richard Broome also created the excellent works of the T-33, T-29 and T-41 airman-ship trainers currently on display at the 557th Flying (T-41) Training Squadron near USAFA's South Gate.

Mr. Broome, originally from Pueblo, Colorado, lives in Village Seven in Colorado Springs with his wife, Billie and two children, Lisa, 5, and Jamie, 2.





Two in one — The paintings above demonstrate artist Richard R. Broome's unique style. (TOP): A straight-forward representation of a Northrop T-38 "Talon" shooting between clouds on a training mission. (BOTTOM): By viewing the same painting under a black light, a new scene emerges. The T-38 is seen in a starry night sky with afterburners ignited. The lights on the plane and in the cockpit shine, as do those of the city below. In the distance, lightning warns of bad weather approaching (Actual paintings are in full color).

HOW TO PREPARE FOR EXAMS

—AAP Student Service

The key to both success and enjoyment at USAFA lies in your ability to use time wisely. In order to have fun while getting the most out of these years, you must follow a pattern of good study habits and skills. Such habits and skills will help you get the necessary work done as the years go by, and you will handle exams with a minimum of stress and a maximum of achievement.

Authorities in education generally agree that successful preparation for an examination starts in the beginning of each term and continues throughout. Six overall steps are suggested:

1. Make a term study plan
2. Use good review techniques
3. Develop a confident attitude
4. Organize pre-exam hours
5. Pace the exam carefully
6. Reassess your work

Make a Term Study Plan

At the beginning of each term develop a daily schedule that allows time for class preparation, study, review, recreation, eating and sleeping. Your ability to adhere to the plan will be a measure of your success.

A study area, conducive to learning, is important. Make sure it has good lighting and all the tools you will need. Before the term starts, have on hand the texts, study guides, outlines, dictionaries and reference books, paper, pads, notebooks and pens that will allow you to concentrate without interruption.

Study and review differ from each other. As they are equally important, allocate time for both in your academic study schedule. Study refers to learning new material for the first time. Review is critical because it strengthens the retention of this new knowledge.

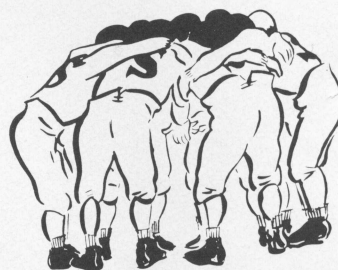
Forgetting takes place most rapidly immediately after learning. Review and recall, therefore, is more effective soon after study. Sometimes after classes go over the main points for 10 to 15 minutes to reinforce them in your memory. This makes reviewing for exams later a quicker, simpler task.



**Don't overtax
your memory
or stamina . . ."**

Don't overtax your memory or stamina. Research shows that most people can absorb and retain just so much knowledge at one time. It's important to learn day by day, week by week. But each period of study scheduled into your work plan should be no longer than 1 or 1½ hours, followed by some kind of recreation, meal or other activity.

Take legible class and study notes. Highlight or underline your textbooks throughout the term and you will be able to review for weekly quizzes or final exams with a minimum of strain.



**"Group
reviewing
can be
helpful . . ."**

Use Good Review Techniques

If you have applied yourself during the term, then preparing for exams is largely a question of review. The time needed is not as extensive as some students think — provided you have been working consistently. Review for weekly quizzes should take no more than 15 minutes, a mid-term exam 2 or 3 hours, and a final examination 5 to 8 hours.

Your preparation for a final should be carefully scheduled into the two weeks prior to exam day. Organize a schedule that does not interfere with your regular study for on-going classes. Beware of racing your motor. make sure you still allow time for rest and relaxation, with no longer than 1 or 1½ hours of review at one time. You mind needs breaks.

Plan your review systematically and consistently. Go from main idea to main idea, using the textbook chapter headings or your instructor's term outline as a guide. Go from chapter notes to chapter notes or from class notes to class notes, recalling the important headings and ideas in each. If certain points are difficult for you to remember, THEN reread the textbook. Otherwise stick with your notes. Don't plan to learn something for the first time.

Making summary notes is often helpful, depending on the amount of the material to be reviewed. In 4 to 8 pages you can outline the main points of your detailed class and text chapter notes. Headings with indented numbered points under them make relationships more obvious. This procedure will also help reinforce the major ideas and important details.

Summary notes can also serve as a self-test toward the

end of your preparation for exams. Put a sheet over each page and slowly uncover the first head — see if you can remember the main points under it. As you go, ask yourself what, when, etc.

Try to predict the exam questions. Be alert throughout the term to the emphasis instructors put on certain topics, aspects or ideas. They often give clues to points that are important or particularly need review.

Ask your professor what he recommends for pre-examination work. Use his comments as a guide but don't try to outguess him.

Group reviewing can be helpful. But it shouldn't take the place of working on your own. Limit discussions of significant points and possible test questions to 30 or 45 minutes, with no more than 4 or 5 people.

Avoid cramming. If you have followed a regular schedule of study and review, you should not have to cram the last day. Remember, forgetting takes place more rapidly right after learning. If you do have to cram, be selective. Don't attempt an exhaustive review.

Develop A Confident Attitude

Your attitude toward exams can make a difference. Tests do serve a good purpose. They give you an opportunity to check your progress. Students who have formed good study habits throughout the term should be confident. Exams will solidify your knowledge of important ideas, and give you an opportunity to know how well you are doing. Examination grades can also help pinpoint your weaknesses and give you a chance to correct them.

Organize Pre-exam Hours

1. The day before an important exam plan to review a maximum of 3 hours, interspersed with pace-changing breaks. Remember to question yourself as you review your notes. Recite the main points to yourself and reread text passages only when you are having difficulty remembering them.

2. Eat and sleep well so that you are refreshed the day of the exam.

3. Get up early to avoid rushing on the morning of the test.

4. Take a shower, have a good breakfast, do some exercises or take a walk, breathe deeply.

5. Stay calm. It may be helpful to take a last look at your summary notes but avoid them if it makes you nervous.

6. Be sure you have all the supplies you need before leaving your room.

7. Arrive in the examination room a few minutes ahead. Take a seat where you will have good light and not be distracted by friends or noise.

Pace The Exam Carefully

When the exam begins, listen to the instructions and then start reading through the entire test. Organize your thoughts.

Budget time for each question. They might be equal in scoring, so answer the easy ones first. Remember to number the answers to match the questions.

Think carefully about one question at a time. Your first sentence should be clear and contain some, if not all, of the main points in your answer. The instructor wants a focus on the question and direct answers.

Not down key words as guides for your writing. Indenting paragraphs, numbering points under them, or making a rough diagram or outline can be helpful to you and the person correcting.

Write legibly or else the instructor will not be able to read easily, and your mark will suffer.

Short-form or objective questions demonstrate your ability to recognize details and your judgement in choosing among alternatives. Attention must be given to key words like: all, none, never, might, or should. Fill in the easy ones first and mark the spaces clearly. Avoid leaving blanks, an answer might be correct even though you are not sure. An omission will probably count against you. In multiple choice, cross out what you think is wrong and think about what is left. Be sure to completely erase if you change an answer.

Essay questions test your ability to express yourself, to interpret and to organize material. The instructor never expects one question (or even an entire exam) to be a demonstration of all you know. Important cue words will give you the key as to what or how much the instructor wants you to write. The ones most frequently used are: analyze, compare, contrast, criticize, define, describe, discuss, elaborate, enumerate, evaluate, explain, illustrate, interpret, justify, list, outline, prove, relate, review, state, summarize, trace. Each one of these terms calls for some specific type of material, so think about their meanings in advance.

Finish each question as best as you can and then go on to the next, leaving some room at the bottom for possible additions. When answering essay questions in exam books, some students find it helpful to use only the right-hand pages, leaving the left page for additional remarks or highlights.

Make answers as concise and clear as possible. Do not waste time with long-winded or repetitious sentences.

Reread everything carefully after you have answered all the questions. You might have left out a key word or remember some other points.

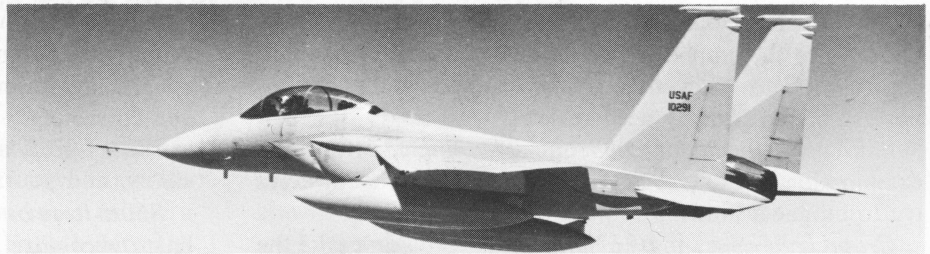
Reassess Your Work

When you receive your grades and get back exam books, read over the answers. Compare them to your textbook and class notes in order to check mistakes and find out why or how you answered incorrectly. If you don't understand your instructors's marks, ask him where you went wrong. This re-evaluation will help you recognize faults in your study skills. Learn by your mistakes and go on to the next phase of enjoyable and successful college work.



Eagle Superior In 1980s

President Ford welcomed the first F-15 Eagle high-performance fighter into the Air Force's operational inventory Nov. 14 at Luke AFB, Ariz., saying, "Our only aim — with all of this aircraft's new maneuverability, speed and power — is the defense of freedom. I would rather walk a thousand miles for peace than have to take a single step toward war."



—USAF PHOTO

McDonnell-Douglas F-15 "Eagle" tactical fighter.

In aerial combat, the F-15 pilot will be able to keep his eyes on the target through a visual heads-up display (HUD). Incorporating a central digital computer and other advanced avionics equipment, this system projects flight status and tracking information on the aircraft's windscreen in line with the pilot's view so that he need not look down.

The Eagle's advanced radar enables the pilot to pinpoint targets when they are beyond visual range. He can change

smoke which might be seen by enemy pilots during air-to-air combat.

This aircraft is capable of maintaining air superiority against enemy fighters through the 1980s.

F-15 EAGLE Specifications

Single-seat, twin-turbofan air-superiority fighter, powered by two Pratt & Whitney F100-PW-100 turbofan engines, each developing approximately 25,000 pounds of thrust.
 Length: 63 feet 9 3/4 inches.
 Height: 18 feet 7 1/2 inches.
 Wingspan: 42 feet 9 3/4 inches.
 Weight: 40,000-pound class.
 Speed: Mach 2.5+.
 Armament: Four AIM-9 Sidewinders; four AIM-7 Sparrows; 960 rounds of 20-mm ammunition for the General Electric M-61A1 six-barrel gun. Five weapons stations capable of carrying up to 12,000 pounds of munitions or additional ECM gear.



—USAF PHOTO

PRESIDENTIAL GREETING — President Ford greets Col. Francis W. Bloomcamp, Commander of the 4486th Test Squadron, Edwards AFB, Calif., and Lt. Col. Earnest T. Laudice, Commander of the 555th Tactical Fighter Squadron, Luke AFB, Ariz. The 555th was the first squadron to receive the F-15. The President was at Luke AFB for the acceptance of the first Tactical Air Command (TAC) F-15 into the operational inventory in November. Colonel Bloomcamp and Colonel Laudice flew the first F-15 to Luke AFB for the ceremonies. Standing behind the President to greet the pilots are Gen. Robert J. Dixon (left), Commander of TAC, and Gen. David C. Jones, Chief of Staff of the Air Force.

An Eagle unofficially broke all existing world time-to-climb records earlier this year in tests conducted at Grand Forks AFB, N.D. The eight records were previously held by the Soviet Union and the U.S. Navy. While breaking the time-to-climb records, the flights provided the Air Force with valuable information on the performance of the F-15 at extremely high altitudes and operation of the various aircraft systems under these conditions.

Records	Held by	When	Old Record	New Record
3000 Meter	Phantom F-4H (USA)	Feb 21, 1962	34.5 sec	27.60 sec
6000 Meter	Phantom (USA)	Feb 21, 1962	48.8 sec	39.35 sec
9000 Meter	Phantom F-4H (USA)	Mar 3, 1962	61.7 sec	48.90 sec
12000 Meter	Phantom (USA)	Mar 1, 1962	77.1 sec	59.40 sec
15000 Meter	Phantom (USA)	Mar 3, 1962	114.5 sec	77.05 sec
20000 Meter	Foxbat (USSR)	June 4, 1973	169.8 sec	122.95 sec
25000 Meter	Foxbat (USSR)	June 4, 1973	192.4 sec	160.95 sec
30000 Meter	Foxbat (USSR)	June 4, 1973	243.4 sec	207.6 sec

The F-15 is assigned to Tactical Air Command's (TAC) 58th Tactical Fighter Training Wing at Luke AFB.

In addition to Luke AFB, two other TAC bases, Langley AFB, Va., and Holloman AFB, N.M., have been proposed as sites for F-15 units.

Its low-wing loading and high thrust-to-weight ratio provide excellent maneuverability and speeds above Mach 2 (twice the speed of sound). Its two Pratt and Whitney F-100 turbofan engines make it the first operational U.S. fighter aircraft to possess a thrust-to-weight ratio of greater than 1-to-1.

The F-15 rollout was on June 26, 1972, and first flight July 27, 1972.

from one weapon system to another, using visual guidance for the required weapon being displayed on his windscreen.

For its air superiority mission, the F-15 is armed with short-range Sidewinder missiles, advanced Sparrow missiles for medium-range, air-to-air engagements and an internal rapid-firing 20mm Gatling gun. Later models are planned to include the 25mm GAU-7 Gatling gun.

The range of the fighter — greater than that of the F-4 Phantom — is part of its superiority. With external fuel tanks, the Eagle can fly coast-to-coast without refueling.

The F-15 features smokeless engines. This will eliminate the telltale stream of



—WALT HERN

Brigadier General Charles E. Yeager, the first man to fly faster than the speed of sound, retired from the Air Force Feb. 28. He broke the sound barrier in the first U.S. rocket plane, the Bell X-1, on Oct. 14, 1947. With more than 10,000 flying hours in 155 different types of military aircraft, the ex-director of Aerospace Safety retired with 34 years service.

HOLD THE VATOR:

Pilots To Fill Non-rated Jobs

The Air Force has an excess of pilots for current needs. This is due to a decrease in flying hours, fewer aircraft, transfer of equipment to reserve forces, and lower aircraft-to-crew ratios. At the same time, the Air Force faces a shortage of officers in certain nonrated areas. Officials at the Military Personnel Center (MPC) say they will take several actions to move pilots into some of these shortage areas. Those affected will be primarily younger pilots, including some with less than five years' rated service. Officials say this will affect about 1,000 officers. Most assignments will not involve a permanent change of station. The rated officers will move over to fill nonrated positions at their present locations.

COMMISSARY PRICES MAY RISE

10%

The Department of Defense has reconfirmed that commissaries will not close. However, they admit there is a strong chance that they will be 100 per cent self-sustaining by October 1976. Air Force officials estimate that an additional surcharge of approximately 10 per cent would be necessary to meet the expense of maintaining a self-supporting commissary system. Officials emphasized that any proposed changes to the commissary system have yet to be approved by Congress.

GERMANS CITIZENS AT 18

Eighteen year-olds have had voting rights in West Germany for years, but only now are they full-fledged citizens.

A law that went into effect at the beginning of the year turned 2.5 million Germans between the ages 18 and 21 into adults overnight. It gave them the right to make their own decisions, but at the same time it made them fully responsible for their actions.

Germany's 18-year-olds were given the ballot in 1970 but only now can be elected Members of Parliament.



Captain Micki King

Air Force Captain Micki King will become the first Director of Intercollegiate Athletics for Women at the University of California, Los Angeles, in mid-summer of this year. Captain King said she will ask for release from the Air Force in June. A 1972 Olympic diving gold-medalist, Captain King has been in the Air Force for eight years and a physical education instructor and the Academy's Varsity Diving Coach since February 1973.

NEW PROGRAM PAYS FOR LAW DEGREES

The new funded legal education program (FLEP) allows up to 25 career officers to attend law school each fiscal year while being paid. The training period may not exceed 36 months and must lead to the award of a bachelor of laws or juris doctor degree and completion of a bar examination.

Applicants must be commissioned officers in the United States Air Force on extended active duty and U.S. citizens. They must have served on active duty for two years to six years on the first day of classes and be in the pay grade of captain or below.

Applicants may also apply for the excess leave program to attend law school. This program authorizes excess leave for a period up to 36 months to obtain a basic law degree and take the bar examination. Excess leave is not charged against an officer's leave account. However, pay or allowances are not authorized for such periods nor is ordinary leave accumulated.

Information about the two programs can be obtained from HQ USAF/JAEC, Washington, D.C. 20314.

President Ford signed Public Law 9352. Under this law, any Air Force officer will now be eligible to command flying units. The law removes the restriction that all flying units must be commanded by pilots.

WAIKIKI HOTEL ACCEPTS CADET RESERVATIONS

The U.S. Army Support Command has announced that beginning Oct. 15, 1975, military personnel will have their own resort hotel at Fort DeRussy on Waikiki Beach in Honolulu.

Reservations are now being accepted for the new Hale Koa (Hawaiian for "House of Warriors") hotel.

The hotel, 15 stories high with 416 rooms, will operate for all grades. Reservations are basically on a first-come, first-served basis, except that active duty enlisted personnel will be given priority in reserving accommodations.

A beach snack bar, coffee shop, showroom, formal dining room, formal and informal lounges, a post exchange, and other shops, banquet and convention rooms, and other services will be among guest conveniences.

Rates are still under study but it is anticipated that they will be below those of comparable resort hotels at Waikiki Beach.

Authorized personnel desiring reservations should write to the Hale Koa Hotel Reservations Office, 2055 Kalia Road, Honolulu, Hawaii 96815, and include a \$20 deposit (check or money order payable to the Recreation Fund, Fort DeRussy), and specify the type of accommodations desired.

Four types of bedroom accommodations are available: studio, with two studio beds; twin, with two twin beds; double, with a queen-size bed; and deluxe, with two double beds.

Applicants can request alternate reservation dates. The entire deposit will be returned if the reservations office is unable to confirm reservations on the desired or alternate dates.

Reservations can be made for a maximum of 30 days but guests will be able to remain longer on a space-available basis.

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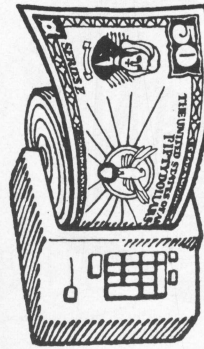
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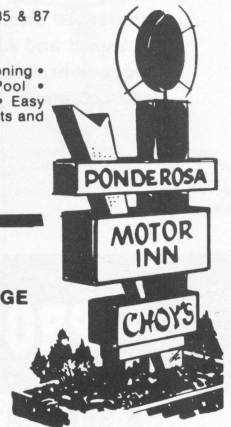
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Me, an alcoholic?

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Many beer drinkers mistakenly believe that the low ratio of alcohol content to volume in beer makes it less addicting than whisky, gin, vodka, rye or wine. But the intoxicating element, ethyl alcohol, is found in all alcoholic beverages. There is as much ethyl alcohol in an average can of beer as there is in a four-ounce glass of wine or a one-ounce shot of whisky.

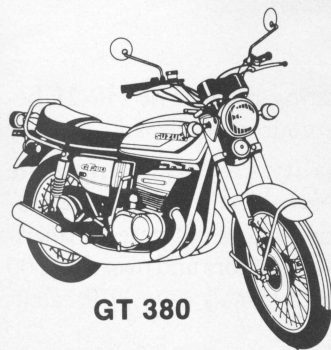
The amount of alcohol in a drink can be determined by multiplying the number of ounces in the drink by its strength in percentage of alcohol.

- One 12 ounce glass of 4.5 per cent beer contains .54 ounce of alcohol.
- One 1-ounce shot of 100 proof whisky (which is about 50 per cent alcohol) contains .50 ounce of alcohol.
- One 2-ounce serving of wine (15 to 20 per cent alcohol) contains .60 to .80 ounce of alcohol.

Whatever the drink vehicle, intoxication results when ethyl alcohol is consumed faster than the liver can metabolize it. Although the intoxicating amount may vary with individual body weight, a person who drinks 7 to 10 cans of beer in an evening can be equally as intoxicated as the person who consumes 7 to 10 shots of whisky.

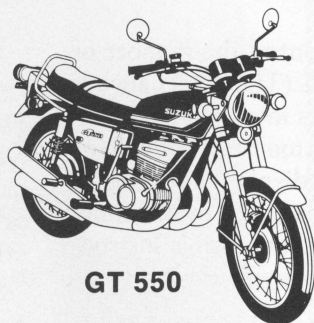


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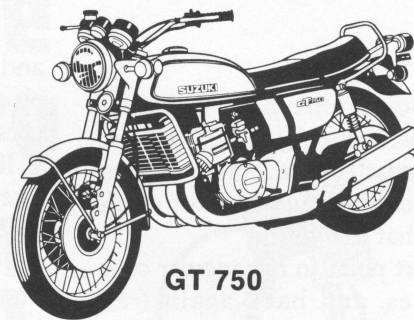
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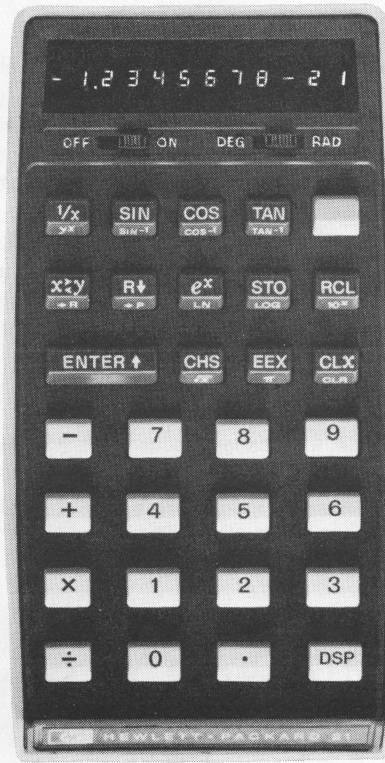
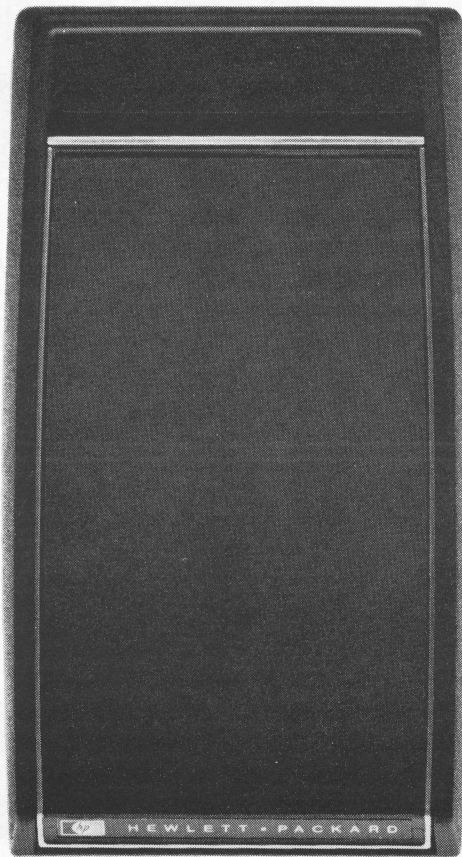
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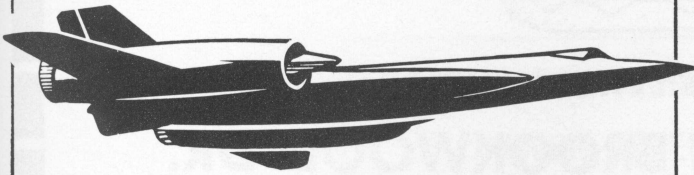
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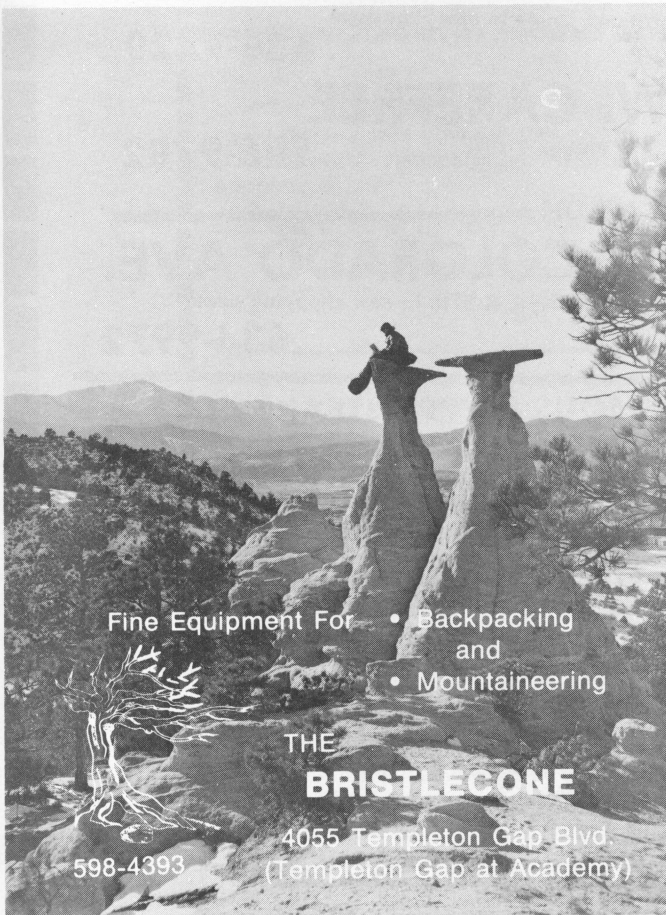
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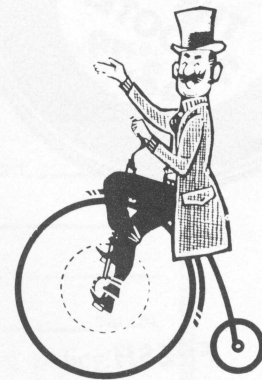
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One of these things is claims service. That's what you buy auto insurance for. But sometimes ours is a little different. It's more than just making members happy with a cash settlement. Like the claims adjuster who stayed up all night helping arrange to haul a member's car from Spain back to Germany to get the transmission fixed. That's not in the policy.

Another thing is policy service. At USAA it's more than just shotgunning out new policies and bills. It's a friendly voice on the phone saying it looks like you're underinsured—or stranger still, overinsured—in some area, and wondering if you'd like to get it in line.

Of course price is one of the things. Usually our rates are lower than other companies'. This is because the idea behind USAA is to charge only what is needed to run the business, pay claims, and keep a reserve for emergencies.

Anything left over we pay back in dividends, a thing we can't guarantee but have been doing every year for 50 years. The reason we can do it is because our emergencies have never been all that big. Officers are good insurance risks. Which is still another thing.

And once you have USAA auto insurance, you're a member of USAA. This means you're eligible for USAA insurance for life, in the Service or out. You can apply for other kinds of USAA insurance and services as you need them—a whole bunch of things.

So—why buy USAA auto insurance?

Because of the thing we've got. And the things you get.

Stop by—or call—our Regional Service Office. USAA Rocky Mountain Regional Service Office. Three blocks south of I-25 on Academy Blvd. Phone: 598-8661



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FUNCTION	SR-51	HP-45
Log, ln	yes	yes
Trig (sin, cos, tan, Inv)	yes	yes
Hyperbolic (sinh, cosh, tanh, Inv)	yes	no
Degree-radian conversion	yes	yes
Deg/rad mode selection	yes	yes
Decimal degrees - deg-min-sec	yes	yes
Polar-rectangular conversion	yes	yes
y^x	yes	yes
e^x	yes	yes
10^x	yes	yes
x^2	yes	yes
\sqrt{x}	yes	yes
$\sqrt[y]{x}$	yes	no
$1/x$	yes	yes
$x!$	yes	yes
Exchange x with y	yes	yes
Metric conversion constants	13	3
% and $\Delta\%$	yes	yes
Mean and standard deviation	yes	yes
Linear regression	yes	no
Trend line analysis	yes	no
Slope and intercept	yes	no
Store and recall	yes	yes
Σ to memory	yes	yes
Product to memory	yes	yes
Random number generator	yes	no
Automatic permutation	yes	no
Preprogrammed conversions	20	7
Digits accuracy	13	10
Algebraic notation (sum of products)	yes	no
Memory (other than stack)	3	9
Fixed decimal option	yes	yes
Keys	40	35
Second function key	yes	yes
Constant mode operation	yes	no



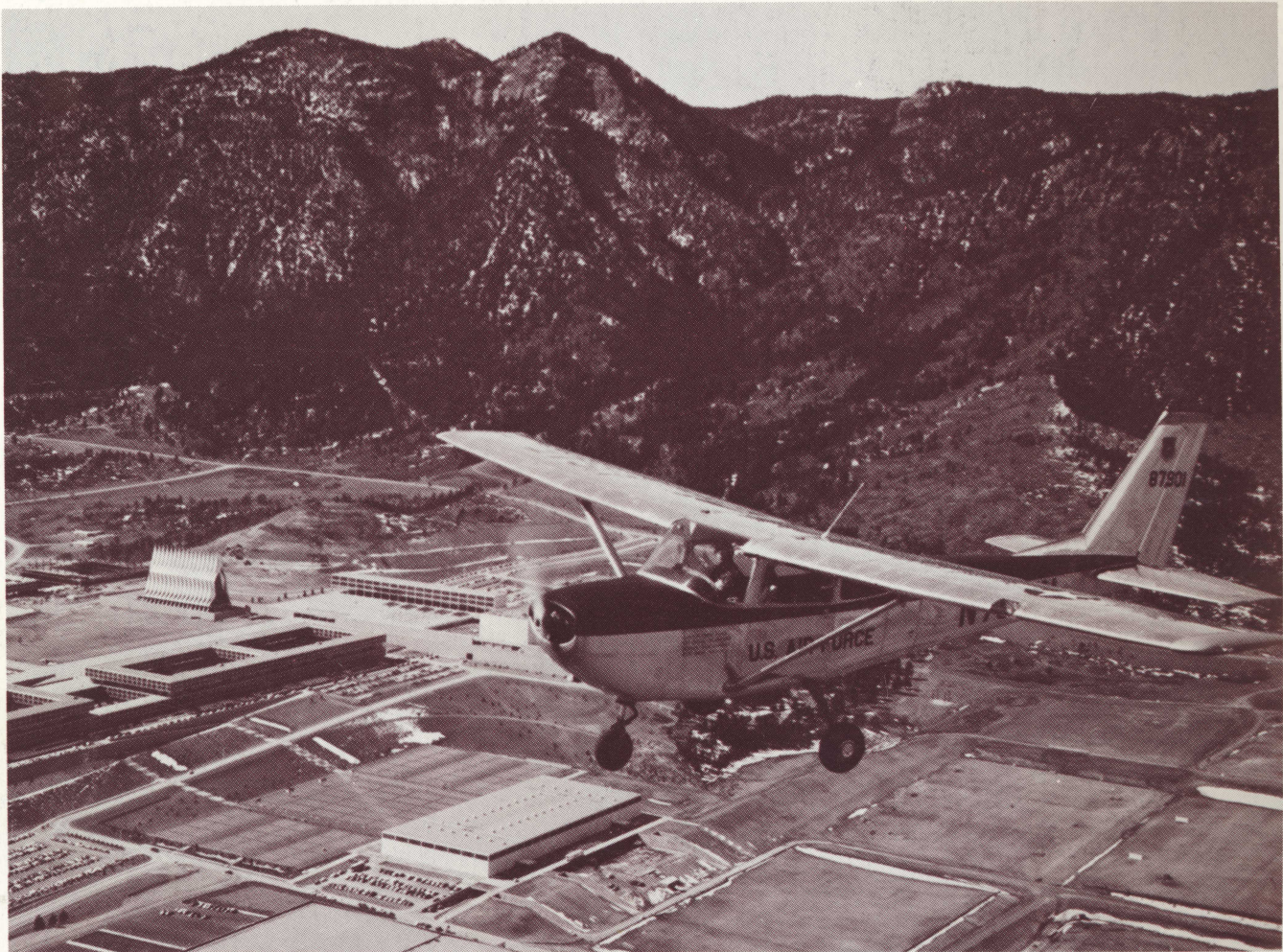
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For full information on the SR-51 send this coupon to Texas Instruments P.O. Box 22283, M/S 320, Dallas, Texas 75222

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