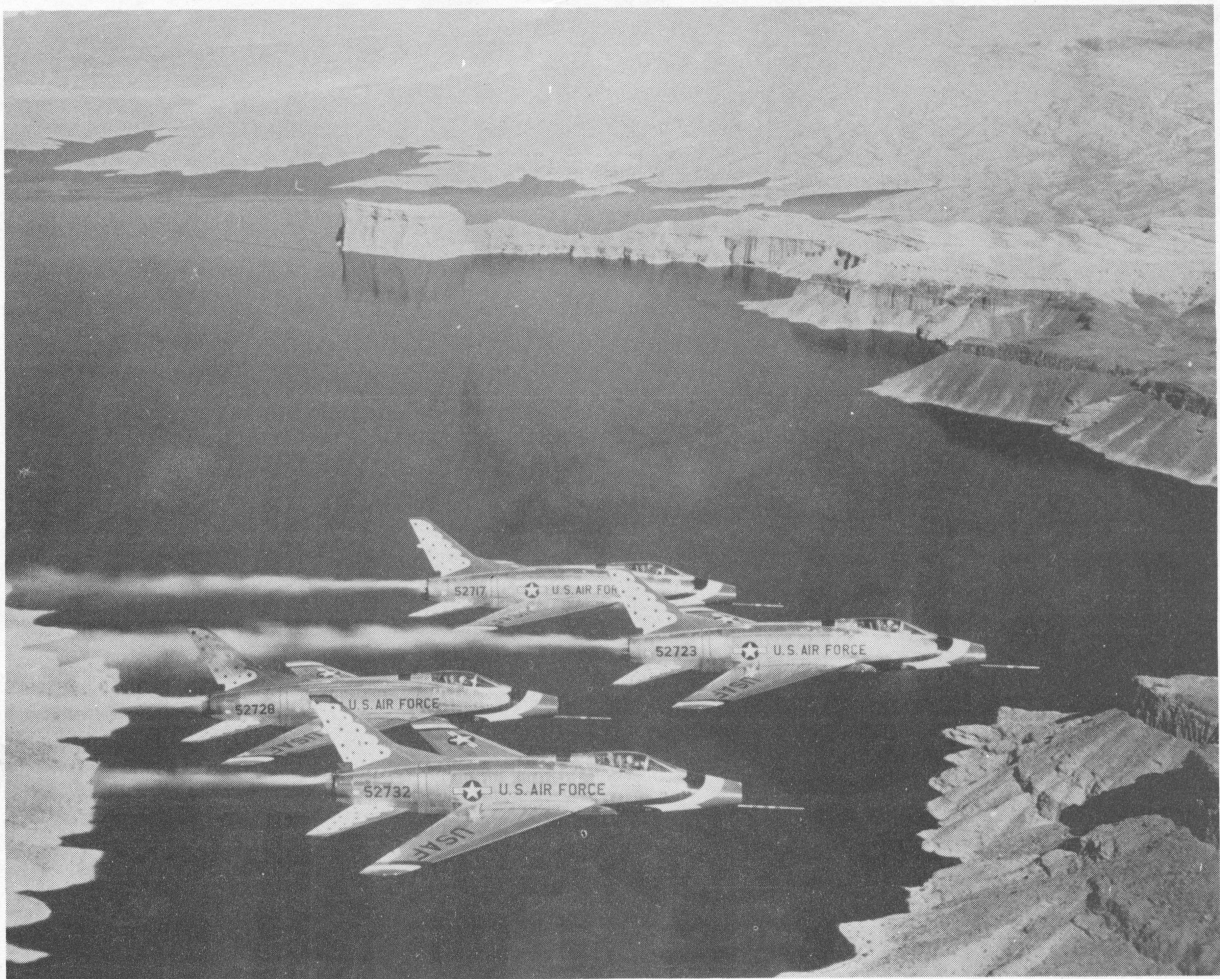




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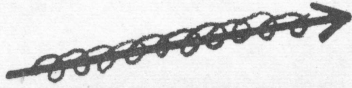
A Cadet Publication for Cadets

14 MAY 1959



INTRODUCING THE THUNDERBIRDS--The USAF's official precision demonstration team, the Thunderbirds, will perform at the Academy no less than three times during June Week. Here the Thunderbirds, in their F-100 Super Sabres, are shown flying the diamond formation in a low-level pass.

Cynic's Corner



'ol Bill

Ah, hope! That wonderful thing which springs eternal within the human breast. That marvelous support upon which one may lean. When things seem blackest and dreariest, that is the time to hope. Yes, indeed, you can hope that you beat your Class III Board. You can hope that the AOC won't inspect. You can hope that you will pass a GR. You can hope to beat the system. And if you hope long enough and hard enough, you may hope some day to be treated as an intelligent human being.

I understand that the uniform for judo will now include white parade jackets. No one seems able to figure out anything worthwhile to do with them.

It seems that someone decided that not enough Form 10's were being given out at varsity squad practices. So appropriate steps have been taken to rectify the situation.

I was somewhat upset last fall when a Doolie told me that the Communist Manifesto was written by Eugene O'Niell. But the crowning blow came this week when to different Doolies were unable to tell me who wrote The Autobiography of Mark Twain.

The Air Force Academy has achieved another first in the annals of history. We are the proud possessors of the only clockwise track in captivity.

The closing thought for this week is of an optimistic nature-- Remember that its better to get a "Dear John" than no letter at all.



THE NAVY F11-F TIGER, made by Grumman and accompanied by a Grumman test chase plane, is a supersonic front line carrier fighter plane.

THE FLYING THUNDERBIRDS

Leading the Thunderbirds and commander of the unit is Maj. Robert S. Fitzgerald. A Veteran of World War II and the Korean conflict, Maj. Fitzgerald is a command pilot with numerous ribbons and decorations. He is the former Director of Research and Development in the AF's Fighter Weapons school at Nellis AFB, Nev.

Flying left and right wing, respectively, are Capt. Gayle D. Williams and Capt. Charles W. Maultsby. Capt. Homer F. Whitlow flies the slot position and capt. Herman E. Griffen is the solo pilot. Capt. John R. Crane acts as narrator for the group.

Capt. Billy J. Ellis, Fifth Squadron Air Officer Commanding, was a solo and Slot pilot for the Thunderbirds from May 1955 to February of 1957. Only 25 officers have flown for the Thunderbirds since their activation in May, 1953.

Thunderbirds

U.S.A.F. OFFICIAL AIR DEMONSTRATION TEAM

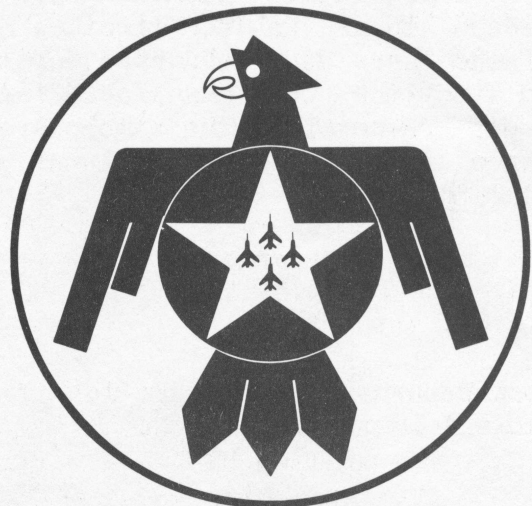
The world's first supersonic acrobatic team, the Thunderbirds of the US Air Force, flying F-100 Super Sabres, will appear during June Week at the Academy. Flying their red, white and blue Century Series fighters, the Thunderbirds will perform loops, rools, vertical "U" turns, corkscrew rolls, and other maneuvers in a close-knit, four-plane diamond formation. With Wing tips overlapping and separated by only "broomstick" clearance, the team will fly their show at speeds ranging from 150 to 750 miles per hour.

The Thunderbirds' maneuvers are executed at low altitude and within a one-mile radius of the show area to keep all four planes in view throughout the entire show. Solo pilot Capt. Herman E. Griffin will time his maneuvers between those of the four planes in the diamond formation and will execute four and eight-point rolls, inverted passes and aileron and vertical rolls, all at low altitudes.

Climax to the Thunderbird performance is their famous "Bomb-Burst" in which the planes in the diamond formation climb vertically in front of the audience and then, cutting in their afterburners, break away to the four points of the compass. Trailing white smoke, each airplane then dives for the ground, approaching the field from four opposite directions. The F-100's cross head-on at a selected point in front of the crowd with only a few feet separating each aircraft.



MAJOR R. S. FITZGERALD
Leader



CAPT. CHARLES W. MAULTSBY
Right Wing

PROFESSIONAL NEWS NOTES

The Thor has become the most frequently fired missile having been used 12 times as a prime propulsion vehicle in scientific research. The latest use of the Thor was the launching of the Discoverer II satellite on 13 April from Vandenberg AFB, California.

A modified Thor was the first stage of the satellite shot with the second stage produced by Lockheed Aircraft Corp. The second stage, weighing 1,600 pounds after fuel exhaustion, went into orbit. The payload weighed 440 pounds consisting of communications equipment, Telemetry and instrumentation for measuring the satellite's performance, and a recovery capsule.

This latest launching is the second to use a Thor missile. Seven of the Thors have been used for tests to study the problems faced by objects re-entering the atmosphere, and three have been used for lunar probe attempts.

Russia has been experimenting with some new control techniques for long-range ballistic missiles. Through using simple petal-shaped flap extensions, it is possible to change the missile's direction and to extend its range by flattening the trajectory. The Soviets have been using firing points in northwestern Siberia.

The first Discoverer satellite to use an Atlas booster will be fired from Cape Canaveral rather than from Vandenberg AFB.

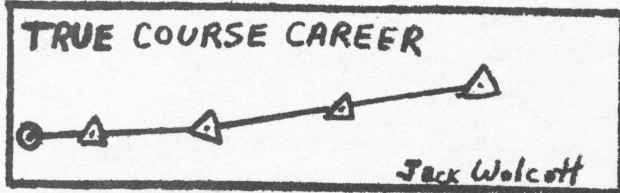
Hail grid navigation! A new type gyroscope called a cryogenic gyroscope has been developed by G.E. This gyro operates at near absolute zero temperatures and has extremely long life and very high accuracy.

The AF and Navy are jointly working on an expendable powered target for use with high speed aircraft. The Navy has cognizance over the project.

Dave Wiest



THE GRUMMAN SA-16, complete with the marking of the Strategic Air Command --an unusual happening, is used primarily in the Air Force for air-sea rescue work.



This will be the first in a series of three or four articles designed to give an insight into some of the AF career possibilities open to the more ambitious officer.

Perhaps one of the most respected among flying careers is that of the military test pilot. With the rapid transgression of the missile and space age, however, it might seem that the days of the test pilot of old are gone. In a way, this is true, because the present test pilot is much more than a pilot--he is an engineer in the strictest sense of the word.

Preparation for this AF career is conducted at the USAF Flight Test School at Edwards AFB. According to AFR 53-19, to be eligible for entrance the prospective student must:

- a. Be serving on active duty in grade of major or below.
- b. Hold a currently effective aeronautical rating of pilot and be currently on flying status as a pilot.
- c. Have a minimum of 1500 hours diversified flying time.
- d. Be between the ages of 25 and 33, inclusive, at time of application.

As it stands now, all other requirements will be met by any graduate from this institution. It must be remembered, however, that when candidates are selected, all other things being equal, the officer with the highest engineering degree will probably be accepted.

As far as the 1500 hours are concerned, the word 'diversified' should be stressed, though more emphasis is currently being placed on diversified jet time.

As a student, the goal of graduation must seem distant, for the attrition rate is high.

The basic courses of instruction include a study of aerodynamics, related engineering sciences, and practical test flying. This flying is done with current, previously evaluated aircraft, using techniques required in testing experimental vehicles.

There are two distinct phases of the program, Performance and Stability & Control, each requiring about three months.

Flying is usually done in the morning, and students are 'wheels up' by 0600 each day to take advantage of cooler and calmer air. Academic classes are held in the afternoon.

In the first phase, an instructor flies the student through a mission profile explaining in detail what is required before allowing the student to fly the same mission. As accuracy and proficiency increase, the student progresses through the T-28, T-33, F-84, and F-86-F aircraft. In this phase there is a heavy emphasis placed upon learning the proper techniques of precision test-flying in such missions as calibration of flight instruments. Five feet of altitude and one knot in airspeed off the requirement are unacceptable.

The second phase is much like the first with more emphasis placed upon precision and the correlation of theory of flight to practical flying. Formal technical reports are required and the student is expected to carefully analyze his findings of the morning missions.

After six months, graduation comes and passes. Officers graduating with distinction are kept at Edwards in the Experimental Flight Test Center while others are assigned to test or tactical units where their special skills may be utilized.



LES BROWN AND HIS BAND OF RENOWN will play at the Graduation Formal on 2 June.

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The Entertainment Committee has done it again. This time they managed to wangle up Les Brown and his Band of Renown for the Graduation Dance of the Class of '59.

The Entertainment Committee has continually provided the Wing with some of the finest entertainment in the country like Les Brown and Woody Herman.

Most of you know about Les Brown, but for those of you who don't here is what you are getting for your graduation dance.

Les Brown and his band has been voted number one in the country by Downbeat's annual reader popularity poll, Metronome Magazine, and by the National Ballroom Operators Association. He has just finished his 11th year with Bob Hope, and he holds the record for number of engagements at the Hollywood Palladium plus the attendance record for this ballroom.

I don't think that there is any doubt that you will have the finest.

EDITORIAL COMMENTS

A small-town newspaper once ran an article that seems apropos for the Dodo. It went something like this:

"You say that you found a typing error in our paper? Keep looking and you'll find others. Some people do nothing but look for mistakes in this newspaper and we don't want to disappoint them. This is a newspaper that has something for everybody."

The best comment that I've heard in some time came from Herb Adamson in reply to the Dodo Editorial comments on likening the great liquor hunt to Queeg's great strawberry hunt in the Caine Mutiny. Quoth the Wing Commander: "We found seven bottles of strawberries."

...And Joe Morgan on Academy policy, "...better a thousand innocent men be hanged than one guilty man go free."

Remember, in two weeks: THE ATO REUNION. gh hines

FORUM NEWS

There are three things in a person's life, birth, marriage and death. You can only control one of these and that is marriage.

This is a paraphrase of a statement made by Lt. Col. Molyneaux in his presentation of The Role of a Junior Officer in the Air Force, to the Cadet Forum.

Col. Molyneaux's presentation covered three areas; choosing a wife to which the opening remark was directed, general conduct during early assignments and professional conduct during early assignments.

The presentation lasted forty minutes followed by a question and answer period which proved very informative for all present.

Hi ho,

Whilst browsing through the Cadet Store's record selection the other day, I happened upon a wonderful album of nothing but railroad sounds. On a rainy night, yet! Who would be one to deny the delight to be gleaned from such an album? Not I! Perhaps a better idea for the exclusive enjoyment of cadets, and others acquainted with the Academy, would be a record of Academy sounds. You could divide the record into four movements...the South, North, East and West sides falling apart, respectively. Any votes?

Now HI HO corner sweeps you off to a forlorn, dark, musty room where an ol' Academy is being carried on...the Class III Board!! Let's listen..

"Next man, please!"

"Yezzir, yezziryezziir...yezziir!"

"That's enough, mister! Now tell us this it or isn't it true that you were overheard remarking that this place is too harsh and that ridiculous punishments were meted out for the most trifling offenses?"

"Well, sir, what I said may have been some hint similar to what you have said, but...."

"We thought so. Now tell us this...how do you ever expect to become an outstanding officer, a public defender of liberty and the freedom of speech with talk like that against your masters, hmmmmmm?"

(Cadet breaks into soft sob.)

"There, there, now my boy. We realize that you didn't really mean it and you won't do it again; and for that reason, we're going to go easy on you and only pull your teeth and shave your head and give you eight months and make you go to Flying Training E.I. every day. That's not as bad as it might have been, eh?"

(Cadet is blubbering gratefully, while backing toward the door on his knees, aware at last that the punishments dealt out here actually hurt them more than they hurt you.)

"Next man..."

"Yezzir, yezziryezziiryezziir"

"Easy, boy! As I understand your case, you failed to sleep in pajamas on Tuesday last. Is this correct?"

"Yessir, that's correct."

"Can you give us any possible reason for not sleeping in pajamas?"

"Well, Sir, I'm allergic to pajamas and they twist and itch and make me break out and I can't sleep and they make me nauseous and I gag and everything."

"I see. Perhaps then, you can tell us exactly what you do sleep in?"

"Yessir, I sleep in my underwear."

"Your UNDERWEAR! ISH! (ISH!, says the rest of the board.)

"You understand, of course, that you cannot possible be trained to think for yourself and make decision of world importance if you don't wear your pajamas like you're told. How old are you, anyway?"

"Sir, I'm 38 years old."

"It is the judgement of this board that you lose all of your cadets privileges with the exception of class privileges and marching privileges for a period of ten months and upon graduation be infected with leprosy. That's all."

"Next man...."

WORLD WAR II MEDAL OF HONOR WINNERS

Maj. Richard I. BONG...top American ace (40 planes in WW II), was assigned gunnery instructor duty in the Southwest Pacific from October 10 to November 15, 1944. During this time, although not required to do combat work, he shot down eight Jap planes.

1ST LT. DONALD J. GOTT....on a bombing run over Germany November 9, 1944, three of his B-17's engines were knocked out. Somehow he got the flaming plane back to friendly territory where most of the crew bailed out, but he and his co-pilot died trying to land with one man too hurt to jump.

2ND LT. DAVID T. KINGSLEY...a bombardier in a B-17 heavily damaged near Floesti June 23, 1944, he unhesitatingly gave his parachute harness to an injured man when the latter's could not be found, and rode the plane to his death.

1ST LT. RAYMOND L. KNIGHT....When German planes were poised to knock out the first Allied bridgehead across the Po River, Italy, he led a series of brilliant fighter-bomber aircraft actions, personally accounting for 27. He died trying to get his shattered plane home.

SGR. ARCHIBALD MATHIES....with other crew-members, managed to right the bomber in which he served after the co-pilot was killed and pilot rendered unconscious on a mission over Europe February 20, 1944. He lost his life trying trying to land with the injured pilot.



THE COLORFUL THUNDERBIRDS in their F-100 Super Sabres operate a four-plane formation through a series of close maneuvers as if it were one airplane.

FIRST CLASSMEN WHO WILL BE MARRIED DURING JUNE WEEK

During the next three weeks, the Dodo will publish the names of the prospective brides of the Class of 1959, in addition to the date and place that the marriage is to take place.

First Squadron

Howard D. Davis (Miss Sue Slonecker)	-First Christian Church Denver (4 June)
John F. Gullede (Miss Edith Clinch)	-Superintendent's Residence (4 June)
John E. Lee (Miss Nancy Griffith)	-University Methodist Church Denver (5 June)
Roger E. Schemenaur (Miss Judith Case)	-First Methodist Church Colo Springs (3 June)

Fourth Squadron

Henry D. Canterbury (Miss Kay Hinman)	-Christ Methodist Church Denver (6 June)
James M. Rhodes Jr. (Miss Kay Harrington)	-St. John the Evangelist Denver (4 June)
Floyd R. Hester (Miss Carol Bloye)	-Superintendent's Residence (4 June)

Eighth Squadron

Thomas G. Bowen (Miss Sheilah Niehouse)	-St. Vincent de Paul Church Denver (6 June)
Paul S. Lasen (Miss Barbara Jean Anderson)	-Ent AFB Chapel (3 June)
Norman P. Quigley (Miss Carolyn Jones)	-Superintendent's Residence (3 June)
James E. West (Miss Carol Ann Nesbitt)	-First Methodist Church Colo Springs (3 June)

Tenth Squadron

Curtis G. Cook (Miss Avis L. Barbour)	-Washington Park Congrega- tional, Denver, (3 June)
John A. Gallo (Miss Jacquelin McCullum)	-Sheppard AFB Chapel, Texas (7 June)
James C. McMonigal (Miss Glenne Winkoski)	-Berlin, Wisconsin (13 June)
Arthur K. Shumate (Miss Carole Hierzer)	-Blessed Sacrament, Denver (5 June)
Charles H. Meier Jr. (Miss Elizabeth Ann Donaldson)	-Grace Lutheran Church Denver, (3 June)
Wayne C. Pittman, Jr. (Miss Karen Ladendorff)	-Phoenix, Arizona (7 June)
Jonathan S. Shafer (Miss Margot VanGilder)	-Church of the Ascension Denver (6 June)

23-24 April Intramurals

Weather has again put the lid on the intramural pot. During this last week only two days were fit for the murder attempts on the squadron level. But in these two days, much was accomplished as almost every team had a contest, with many upsets ensuing and the pennant races being narrowed considerably.

In 2nd Group rugby, the fight appears to be between 4th and 7th, both of which have small, fast, hustling teams. These teams tied each other last week, 11-all, and won their games this week. 7th beat 5th, 11-6, in a rough and tumble fight in which they combined fine coordination with excellent strategy to overcome a Goliath-like opponent. It was also one of the best reffing exhibitions this sports writer has yet observed. A job well done, Jon McClure.

4th won a 15-3 decision over 10th, coming from behind at the half to score 15 with ball handling that would have done credit to the Harlem Globetrotters. Jerry Girard employed his gifted toe kick, his second running field goal. Part of 4th's win can be accredited to its original type of uniform and their ticketyboo spirit.

In lacrosse the play is being pretty well dominated by two teams. 1st Squadron seems to be taking its group with no difficulties. This last week they beat 9th, 4-2, in a game where passing and rough but clean play were the whole story. But what else could be expected when ex-teammates Herb Eckweiler and Brock Strom started bumping heads. And speaking of ex-teammates, Fuller Atkinson and Howie Whitfield, coaches of 1st and 9th, respectively, used to be a part of 1st's scoring punch, until they got too old and bald!

4th is the other dominant squadron, with several outstanding players. An excellent passing attack and fine shooting have given them 3 wins, with only two goals scored against them. This week they won against 10th, 4-2, despite the wind and the reffing. Pat Gregory of 10th gave them quite a bit of trouble but the teamwork of 4th proved too much for the Tiger Tenth Spirit.

Golf

Again the golf team split its week's action, winning over St. Regis in a home match, $21\frac{1}{2}$ - $5\frac{1}{2}$, and losing to Arizona at Tucson, $24\frac{1}{2}$ - $2\frac{1}{2}$. Against Regis, Chuck Croll won the medalist honors with a 75, also taking his match. Bill Toney, Larry Karnowski, and Bill Blanchard all won theirs with 78's, but Bob Blake, who also stroked out a 78, was tied by his opponent. Tall and gangly Jack Swonson shot a 79 and was also tied.

At Arizona, the horse was of a different color. Medalist honors were won with 74's, of which the University had two. Our best was a 78 by Toney who tied his match. The other men were spread from 79 to 87, Swonson having run into a bit of trouble with his long hook on the narrow fairways.

Next week the match is with Tulsa at the CS Country Club. With good weather and no match during the week, we should be able to down Tulsa and start the streak again.

Intramurals

Fourth appears to be a shoo-in for the Second Graup Chamionship in lacrosse, having a so-far undefeated season. This last week, it's rout of 12th, 10-0, could be attributed mainly to the teamwork between attack and midfield and some excellent work on the part of the refs, Alexander and Congdon. The scoring was by Lentz, Price, Myers, Gorham, and Arnold.

12th's lacrosse seemed to have a pretty rough week of it, with another loss on Friday, this time to 10th. Good balance in all department was the keynotes as 10th controled its 4-0 win throughout the whole contest. 12th standouts, Stu Boyd and Chuck Coryn, were unable to defend against the whirlwind attack of Pat's Gregory and Buckley or break the tight defense of Bernie Johnston and Dave Lee in their attempt to avert a shutout. Scoring was by Buckley, Don Miller, and Willie Gray.

In rugby the games are improving greatly as the contestants learn the rules and the reffing becomes almost professional-like. During this last week, 8th took 5th, 13-6, in a very hard fought game. 8th's domination of the first half was the deciding factor as 5th rallied in the second but was unable to close the gap. The kicking of Tom Jozwiak was certainly a sight to behold as 5th gained yard after yard in the toe exchanges. But it was not enough to overcome 8th's more balanced team.

3rd and 9th also played an excellent game, although the score, 20-3, indicates a rout by 3rd. The big difference between the teams and hence the score was the employment of a big toe, this time that of Neal Reaveley who booted four through the uprights. This, plus the ball handling of 3rd, overpowered the excellent kicking offense employed by 9th.

In speedball the positions were reversed however. 9th, led by scoring ace Oog Prindle, met quite a bit of opposition, and although the game was actually dominated by 3rd, 9th pulled it out by a score of 6-3. 3rd had many good scoring opportunities but was unable to capitalize on them. Lack of position play and sloppy passing were the notable faults of both teams.

Track

Again Miles Kaspar and Don Livingston were top point-getters for the track team as it beat Mines and Colorado College, 95-45-12, respectively. Both picked up 10 points as they won each of their events, Don the 100 and 220, and Miles the 120 highs and 220 lows. In addition to these wins, the Academy thinclads took 7 other firsts, including the mile relay.

The Academy had good depth in every event, with the exception of the pole vault, where Mines took the first three places. The speed merchants swept the shot, while picking up 10 out of 11 points in both the discus and the braod jump. George Pupich set a new Cadet Record in the latter with a jump of 23'-3 $\frac{1}{2}$ ".

On Friday, since Tulsa had cancelled its meet for Saturday, an intra-squad meet was held. In these compitions, Joe Carling, who has been out with a pulled muscle, and Bob McDonough ran a neck-and-neck 100, both breaking the record with 9.9's but not setting a new one due to its not being a record meet.

Next week, the team travels to Boulder for the AAU's. The team should do fairly well and is predicted to be within the first 4.

ACADEMY ACCREDITATION

The Air Force Academy recently received word of its accreditation by the North Central Association of Colleges and Secondary Schools, one of six regional organizations in the United States which consider and certify whether institutions of higher learning are of acceptable quality. Normally the Association will not consider accrediting an institution until it has graduated at least one class. It gave early consideration to the Academy because the law provided the Academy could not award BS degrees until it was accredited.

The decision of the NCACS was based on facets of the AFA which include the following:

(1) Development and refinement of a broad curriculum, balanced between basic and applied sciences, on the one hand, and the social sciences and humanities on the other.

(2) Development of an enrichment program which permits cadets with special ability to develop well beyond the prescribed curriculum.

(3) Cadet achievements in national standardized tests. In a 1958 test of sophomores in 73 selected colleges and universities, the Class of 1960 surpassed 91 per cent in science, 92 per cent in social studies, 91 per cent in mathematics, 85 per cent in reading and 75 per cent in writing. In a graduate record examination in December 1958, the Class of 1959 surpassed of the 21 colleges and universities tested, 83 per cent in natural sciences, 82 per cent in social sciences and 69 per cent in humanities.

(4) Selection of Cadet Bradley C. Hosmer as a Rhodes Scholarship winner before the Academy had graduated its first class.

(5) All five of the Class of 1959 who applied for graduate study were accepted. Cadets Brock T. Strom, Charles D. Zaleski and Laurence J. Thomson will attend MIT, Gerald J. Garvey will study at Princeton, and Louis Kingsland Jr., will attend Cal Tech.

(6) Attainment of 183 credit hours of prescribed academic and airman-ship instruction in four years, equivalent to five years of instruction at the average undergraduate college.

(7) Establishment, in cooperation with the American Assembly of Columbia University, of an annual Air Force Academy Assembly. The assembly of 30 colleges in the west and midwest received high praise from Dr. Henry-M. Wriston, president of the American Assembly of Columbia, and other educa-tors.

FOR SALE	KNIGHT-KIT 25-WATT POWER AMPLIFIER \$40 KNIGHT-KIT STEREO PREAMP \$60 AR-2 SPEAKER SYSTEM \$80 REDUCED PRICES FOR MULTIPLE PURCHASE J.C. GIFFEN 6617 Sqn 2
LOST	ONE AOC VOODOO DOLLY DALE MAYO SQDN 8 DESPERATELY NEEDED!