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Embry-Riddle Aeronautical University

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MEMORIAL SCHOLARSHIP FUND BEGINS

DETERMINATION OVERCOMES NEAR DEFEAT

By Are Bowman

We all know that there are lots of people around the campus who need help. And by now, most of the local news where to go for help, the places that can give you those places that can give you an opportunity for better education. Many have traded a little more time in jail, but you can hardly find the beach, some of the usual sunny weather, and other local attractions.

You'll get it. And, because we are a University, we have the capability to make gifts to any worthy cause.

Walter Naismith Memorial Scholarship

set up

Elaine Naismith, with her daughter Belle, and son Walter, are building the plaque that commemorates the late Walt Naismith, a flight instructor at Embry-Riddle. The Green family presented a check for $1000 to the school to set up the scholarship fund. Bob Miller, on behalf of the University and the Aeronautics Association, presented the additional $500 to the scholarship fund. (Photo by Chuck Henry)

Hassles Lessons To Be Learned

A Few Minutes Of Fun

If you read the local news or catch the T.V. news, you are probably already aware of the recent "Gray Street Crackdown." If you haven't read or watched locally, you should!

A law enforcement person, or more, in rather unusual situa-

tion, combing the Main Street area, and leaving in their wake, businesspeople, tour-

ists, and of Saturday night, two more Embry-Riddle stu-

dents. The most common cause for arrest -- Soliciting Pettin-

ates. The fine is somewhere between $100 and $500, depend-

ing on the judge. This article is meant to serve as a warning for those students who are already tempted. All or few minutes of fun, one can take the risk of getting nabbed, an arrest record truncating one's future. You, the Dean of Students Staff will help if you do manage to commit a "crime" -- isn't it worth the risk?

I.

PEP RALLY

The E-RAU Soccer Pep Rally will be held Thursday, Oct. 8. There will be free, cold, and cold for 25 cents a can.

Meet the Players at noon in the University Center on Oct. 7.

JOIN US AT THE PEP RALLY AND THE INTRO SESSION. SUPPORT YOUR TEAM!

NOTICES

ON CAMPUS INTERVIEW FOR A&P MECHANICS

EAM Aircraft Modification Company will be interviewing on campus in mid October for experienced and interested A&P mechanics (including December graduates). Their operation encompasses all phases of maintenance activity, modifying Single Engine and Multi-Engine aircraft especially Ocean and Aero Commander. Company needs mechanics. Please see Career Center for written qualifications and a sign up for the interview.

UNASSIGNED "STAND-BY" FLIGHT STUDENTS

An Information Program for prospective Flight Students will begin this Friday October 7 at 7:00 p.m. in C-135 Room 16.

You will be notified on Spring flight reservation procedures. A short film will be shown. Your questions will be answered. Attendance will be taken.

REMEMBER: That's Friday Oct. 7 at 7:00 (that's 7:00) in Room C-135 at the Flight Line.
ANNUAL AERONAUTICAL UNIVERSITY

OPINIONS

By Ray D. Katz
AVION Editor

Every day somebody comes to me with a complaint that the Administration won't support this program or that contest, as if I have to agree to the Administration. Take the sports program, for instance, because that's where most of the complaints have been coming from. One of the leading complainers has to do with the fact the school doesn't provide more money for the sports program. My reply is, why should the school put any more support when the students show so little. For the past three years Embassy-Riddle has fielded the second weakest soccer team in the conference, yet for almost the same last year the team outnumbered the spectators. What kind of student body is that? Dean, I'll say.

This year you will have a chance to redeem yourselves. Friday, the soccer team will be introduced to the student body in the U.C. and Saturday, there will be a pop rally before the game there. Let's show the school and our team, that we support them.

One last note... If you want a fight team this year let one of the seniors know, because the S.G.A. will probably provide most of the financial support. If they feel that the students want it then we'll have a fight team, otherwise forget it.

PING FUNG
AERODYNAMICS

Smoothly to Ping Pong table, backhanded (we need a reverse decision), slice (sneer unknown), forehand (for now in the hands of the student in the University Center). ALL STUDENTS PLEASE BE INFORMED OF THE PRESENCE OF FLEXIBLE WEIRS (Birchtree Center). Remember how reasonable rail transportation for Ping Pong is a cheap date. Everyone loves Ping Pong. If Embassy-Riddle will bounce away from our needs? There is a group of students who look towards Ping Pong for the protection of their own man-made security. We, of FLIGET, encourage the students to try the object-oriented sport in the form of a game that is simple and easy to use. Is it through us out will that this object occurs through the atmosphere. Will Embassy-Riddle ever

THE CAFE BLUES

One of the essential parts of good management is adequate communication both upward and downward. Any format organization lacking this principle suffers internally with employees as well as externally with the customer. I bring out these statements to reflect my dissatisfaction with the cafe policies. To give you a better idea, yesterday morning I gave 20 cents in change. French fries are not a vegetable. The worst thing about it is that I actually believed the cashier and paid her.

The point I am trying to make is that the cafe isn't communicating effectively to the student on what is and what is not, how much and what alternatives are available to him. If the cafe tell me that potato's are a fruit then I would at least know where I stood when I came to paying. The only person who should know where he stands before he even enter the cafe is you. You can't leave it to a trial and error policy that results in an argument with the person reaches the counter.

I am writing this article if I thought that the students weren't communicating effectively with some students. The food and the service are good. I would like to extend my compliments to the chefs and the fine people serving us. As far as management I highly recommend BIZZ3O "Principles of Management."

Charlie G. Bocock

WISE UP!

A few words of wisdom... Dr. Jeffrey H. Ledwich

Shop Around To Keep Auto Insurance Costs Down

Premiums for automobile insuran ce are meeting as compe titive new they cannot afford the rising cost of re pairs and the increased number of claims. The current cost of auto insurance is 10% higher than it was at the beginning of 1976. How can motorists cut insurance costs?

The Illinois agency recommends comparing prices and services with at least three insurers. (The agency cited the case of a 24-year-old married man who found he could have paid anywhere from $131 to $75 for exactly the same amount of coverage.) If you want to check the financial solvability of a company, try "The Insurance Mirror," a monthly publication of the A.M. Best Co., a private organization that rates insurance companies. The publication should be available at local libraries or insurance agent's offices.

The Avion Staff

The winner of the first A F P A P P S CONTEST is E.MY C.R A DLE, who with the T J WICKLETT RION WINS £1 2.00 TO THE PATRICK FAMILY. To pick up your prize coupon, Mary, please drop in to the Avion office before 2 p.m. and 5 p.m. as possible and pick it up.

CONGRATULATIONS:

The following is A.M. C.R A DLE's answer to the question:

"If a quarterback throws a football during a football game, is the football considered an aircraft? If so, what conclusions are drawn for that matter unless the statistics of the game be on one side and half on the other? Considering the line between states or two countries, it would also be air transportation unless it attached itself to the football and delivered to someone, as the referee. If they do not engage in air transportation then there is no air carrier anywhere."

...And This Week's Question:

This week's question deals with the effects of altitude on fun. Question: would a celebration have more fun drinking a bottle of champagne at 8000 feet such as leis than drinking the bottle at sea level. If so, why?

PRESIDENT'S CORNER

Bob Allen
RCA President

The following questions dealt with the effects of altitude on fun. Question: would a celebration have more fun drinking a bottle of champagne at 8000 feet such as leis than drinking the bottle at sea level. If so, why?

The opinions expressed in this paper are not necessarily those of the university or any members of the student body. Letters appearing in the Avion do not necessarily reflect the opinions of this newspaper or its staff. All letters are subject to editing or libelous, at the discretion of the editor, and are accompanied by the signature of the writer. Names will be withheld from print if requested.
Albertain recommended travel us always put their names and home addresses on happen. Herb Kline, columnist of the the travel section of the Inside News suggests not to do it. That's love. They are always around airports writing down addresses of departing vacations. Even instead of using home address, put office address or a post office box number on label.

***

Sc.Maybe Her (daughter) of Britain's Royal Albertain has taken his six trained homing pigeons to the four-month service in northern Ireland. That way, he says he will be sure his wife will get his letters back in England. More than that, Shauger says that pigeons post a kind of more personal.

By the way, Ireland has initiated this past summer a program where more than 10,000 pigeons will be trained. The cost for each pigeon after the training will be $1,509 and $2,000. The purpose of it is not to deliver mail but to deliver surgical equipment and blood in transportation between Ireland and mainland Europe. The reason for this is that pigeons are more efficient (both time and price) than regular carriers for transportation of small objects.

Mrs. Jodie Derke who has six grandchildren, didn't work for Griffith, owner of the Diner, but a brilliant idea: He gave free admission to the first mile-and-a-half distance across Lake George, N.Y., in one hour and twenty minutes. Mrs. Darke wanted to demonstrate she wasn't slated to be put on the plan.

That's what I call shrewdness!

Wings probably has the most convenient dinner system in the world. The procedure for a husband or a wife, who wants a dinner and where no children are involved, is to fill out a form accompanied by a minimized statement that the marriage has broken down. The form is mailed to the authorities and they are free again. If any children under 16 are involved, the husband, or wife must appear in front of a judge and prove that satisfactorily arrangements have been made to support the children.

In the Medics, the most blamed airline in history, is Dru being followed by medical teams both in the United States and England. The British is responsible for the parabolic radioactive gas of hymn Kathryn. The gas is more versatile and safer than Dru gas in detecting disease. However, its normal life expectancy is only eight hours. So once a week, portions of the gas are loaded inside a 30 pounds lead jacket, and flown from Heathrow Airport, London, to Radiologists in Washington. The Concords covers each route in three hours and 42 minutes.

The city of Miami revoked the license of the Peach State Tennis Club (Sherry Hackett, across from the Playhouse Club). Last July, it was an attempt to clean up the image of the pornographic invasion. Larry Lowenthal, owner of the Diner, had a brilliant idea: He gave free admission to the first mile-and-a-half distance across Lake George, N.Y., in one hour and twenty minutes. Mrs. Darke wanted to demonstrate she wasn't slated to be put on the plan.

That's what I call shrewdness!

The current issue of the Yankton Basin Squadron, Civil Aeronautics, to post the FAA flight test and qualify as a private pilot in the 630 horsepower Goodwin,擦拭 Beach, Fla.

Capt. Harry Case, CAP, the squadron's chief flight instructor, plans this month all wings on Goodwin at the airport meeting Tuesday night. The new private pilot is a second-year student in the Maintenance Technician Program here at Normandy College.

At the same time it was an announcement that Quaker Charles Center and James Grohgold had qualified as solo pilots and are entering the dual cross-country stage of flight training.

MEDIA CENTER

The results of the Media Center Survey, which was taken Sept. 32 and 33, concerning desired hours of operation are as follows:

SURVEYS Collected......186
FRIDAY-Mornings.......79
SATURDAY-Mornings......47
SUNDAY-Mornings......108
SUNDAY Afternoons......59
SATURDAY Afternoons......34
SUNDAY Afternoons......117

All statistics apply only respondents to the indicated hours.

These results will be exam-

ITED during a review of the Media Center services. Thank you for your cooperation in this survey.

LEADING STORY:

The Media Center has recently conducted the McNab Airmen Plan which allows us to stock many of the current bestsellers for overstock items. We have reduced the length of each month in order to select the most recent bestsellers for your enjoyment. Please stop by and select a book to help you relax.

PATROL MEMBER WINS WINGS

The latest member of Day-
tona Beach Squadron, Civil Aeronautics, to pass the FAA flight test and qualify as a private pilot is the 830 horsepower Goodwin,擦拭 Beach, Fla.

Capt. Harry Case, CAP, the squadron's chief flight instructor, plans this month all wings on Goodwin at the airport meeting Tuesday night. The new private pilot is a second-year student in the Maintenance Technician Program here at Normandy College.

At the same time it was an-
nounced that Quaker Charles Center and James Grohgold had qualified as solo pilots and are entering the dual cross-
country stage of flight training.

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PAGE 3

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
FRATERNITY CORNER

By Ken Moore - Historian

Several members of AIP are actively working on the possibility of sponsoring a flight tour in lieu of the normal trip to Delphi at the upcoming national AIP meet. Tentative plans include but are not limited to about eight to ten students to participate in various accuracy landings, bomb drop, computer accuracy, night flight, and aircraft recognition. Any student who does not hold a CFI certificate will be welcome to try out for positions on the team. More information on this will be available at a later date.

Members of the fraternity have decided to formally extend the Service and Scholarship Burs to all active members who may be deserving. This award is based on scholarship, service to the fraternity, and interest in aviation.

AIP members still have invitations to the nash dinner to be held on Thursday, October 7. The nash dinner will be held at 7:00 p.m. at the Faculty Staff Lounge. Members will be held in the student union. The cost is $4.00 per person.

Congratulations to Choir and Robert Underwood on their recent marriage. I'm sure they welcomed group trips in their honeymoon suite after the ceremony.

With the fifth of school weeks under way, the fraternity is planning several group trips this month. I hope we can get some relatively, covering quite well (Friday's test), successful landings. We have just packed several vans and are ready to go.

The Phi Delta Kappa trip to Delphi was a great deal of social and partying. We had an enjoyable time, and everyone got along well.

Afraid to attend the Welcome Party for the full trimester, you must have been one of the few students who were overwhelmed by the number of people present and lost by the score of 36-6. Practice for next week's game will be at 8:00 p.m. on Tuesday night at the stadium.

Lambda Chi

By J. L.

This weekend the Lambda Chi football team suffered its first defeat. We took an early lead but we were overwhelmed by a superior opponent and lost by the score of 36-6. Practice for next week's game will be at 8:00 p.m. on Tuesday night at the stadium. We'll get them next time. We look for victory next week.

The Welcome Party for the full trimester, you must have been the only member not present. The attendance was undoubtedly the best since the beach party held early in "A" term. The evening was, as was the Phi Delta Kappa social, very pleasant and we had a long and perfect night on our society side. If the welcoming committee is any indication of the type of participation for the trimester, the members may look forward to some outstanding times to come.

This week's football meeting was at 7:00 Saturday night in the Faculty Staff Lounge. Associate members held their meeting at 5:00 p.m. same place and were ready.

LAMBRO AIR SOCIETY

by Robert Wilson, Ed

Many things were accomplished at our first dinner meeting last week. These pledges are helping us to organize and coordinate our activities. It was held early and there were a lot of pledges.

Thanks to some of our members who were present at the last meeting, we have been able to complete the list of those who have left the university.

It was held at 7:00 Saturday night in the Faculty Staff Lounge. We will hold the next meeting on October 25 at 5:00 p.m. in the same place and by the same time.

RIDDLE PACKERS

by Mike Cleary

Well, the Packers would like to share their last experience with you. I think it shows what our club is all about. Well, the Joes, a club that doesn't come close in competition to the Riddle Packers. We are the best club.
The AVROC Club met last Wednesday night in the Faculty Staff Lounge, LCCR Gehr, Lt. Porter, and Ene. Stappel attended the meeting. We had 10 new students at LCCR Gehr who talked to us about a field trip to Jacksonville to go through the A.T. Squadron. Also a trip to Fernandina is in the making to get a first hand look at the base and what summer camp is like. We will know more about the trip in Jacksonville at the next meeting.

Our next meeting will be on Wednesday Oct. 11 at 6:00 p.m. in the Common Purpose Room or Faculty Staff Lounge. Hopefully we will have some films on different aircraft. There's still time to join.

SCUBA CLUB

BIGGEST SPLASH YET!!

By Bob Harold

The largest turnout yet of students interested in becoming members of the E.R.A.U. Scuba Club was seen this fall. With a growing club we should be making a big splash on campus.

The elections of officers at the last meeting left Greg Hunt as Councilman, the c.o. Charlie Kidd as vice-president, Bob Harold as Secretary and William Wilkins as Treasurer.

O.K., the club, with over 20 members, explored Navarre Beach and Daytona shore. Future dives would include such places as the beautiful Crystal Rivers, across the state.

With a growing club and the number of new students, we have the more need for more interest to become certified as safe divers. With all the "Fish Stink" about a big new swimming pool, that's supposed to be completed sometime between the U.C. and the Dorm, our club is founding. I'm sure we'd all like to see a new pool as soon as possible, but with our own pool the Scuba Club could greatly expand it's capabilities.

With our new pool the Scuba Club would be able to offer more certification right here on campus. To add another dimension of safety in our club we could hold safety sessions at the pool, practicing emergency procedures and safety.

With our new pool it complete the club will continue to enjoy many safe and beautiful dives. Next if you haven't been "down" lately, get involved with the Scuba Club.

THE COUNCIL OF CAMPS

By Jim Young

The Council of Campus Organizations and Bob Hope have joined forces in a cooperative search for talent. This competition named after a group of local celebrities will be representing E.R.A.U. in the area competition in Boca Raton Friday, November 18.

Categories of competition include: 1. Popcorn, 2. rhymes, 3. rhymes, 4. country, 5. rock, 6. jazz, 7. classical, 8. dance, 9. other (comedian, magician, theatre). Winners of the national competition will appear on a Bob Hope Television Special. Interested? If you are, fill in the application form we return it to the Student Activities Office in the Student Center. Deadline will be Tuesday, October 11. Let's send someone from ERU in BOCO Raton.

Name of person submitting application:

Address:

Permanent Address:

Name of Act:

Leader:

Number of members:

Category:

AFROTC

By Ohler

The day was Friday, Sept. 30. The time was 4:30 p.m. Rain and cold had bought the fall weather for the AFROTC trailer. C2/122 had been waiting here for weeks getting everything organized for the big event. Everyone was hoping things would go well. We were all student volunteers.

People gathered around to awesome metal cylinder which contained what must comprehend to become of the gun. Then, a military figure walked over towards a strange looking piece of electronics. He backed up and began the little hands on the floor. Suddenly, sounds began to come forth from the first level of intelligent magnitude. The man's hands formed the knobs once over. The sounds were now at once, and everyone looked at each other said, "O.K. C2/122 AFROTC had begun!"

Everyone screamed so loud here had a good time. It was the end of a highly motivational film about the Air Force so shown inside the trailer, of course, there were more Foots to come for this class. The event was over. It was clear that there will be huge turnout next week.

Many other events are planned for AFROTC this trimester. These include an athletic Field Day, the formal Dinner-Out, and a spectacular field trip to MUSC. AFROTC goal for the end of this month. Arnold Air Society, which is a part of AFROTC, also plans to do many things. Their community projects, in which they often engage, will include helping out at the March of Dimes Walkathon and doing volunteer work at the Voluntary Deaf and Blind Center. Everyone wishes David Sails and the Arnold Air members a very successful trimester.

But now, the sun is beginning to fade away beyond the horizon. As I sit here with my own mountains and field, I try to reflect back upon Friday's Field Trip. It is difficult, since I still feel the effects of that wonderful night of the girls. However, I can remember all of those new cadets. They are mingling with everyone else there. The atmosphere is so unique a "vibe" is being released at the volleyball game. Tomorrow is being moved out of the field. But all is well. Keep up. If only I had had that last cup of beer. Everything because dark. And now I have to study. I am definitely going to get creamed in tomorrow's finals test.

WE'RE THE BEST

On Friday Sept. 18 the 2nd floor East wing went reeling in the most from the Dorm. Not by choice but by 2nd Floor North Wing after The Black Sheep. On this fateful day as the sun was setting two teams of men were heading toward what was to be the most dramatic event of the '71a tug of war across the most. With mothers yelling and kids in hot force each team was to accomplish a mission. This mission was to pull the other team into the area. At 8:60 the men on each side began what was to seem an endless battle for supremacy. Several minutes later the 2nd floor East wing took their first swim for the day. Then a gleed "six" of "food" was heard from the east wing. After a series of heated arguments such as "we weren't ready" second challenge was taken, the only difference was a change of sides.

To assure a fair contest Head Sonnenberger and Mike Greening was to be the official starter. It began from the word "go" another seemingly endless battle. Although the east wing put up their best efforts, the west side The Black Sheep again proved themselves the masters.

Since then, the unbreakable team of P. Starn (plishish), F. Marchetti, J. Bruno, J. Simke, B. McMorris, R. Dye, B. McChesney, V. Zettl, F. Mollet, J. Seminaue, M. Falconedii, R. Greening, Whoch manifests sent out a number of challenges throughout the dorm zone, who knew if they'd been met. If anyone cares to challenge them all, drop a note in Box No. 4442 or to Paul Starn in Room 218.

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DAYTONA MALL
RIDGE CHAMPS

BOWLING

By John Richard

Riding the strength of Bob Allen's 203-207, the Pan-A
Go-Gos gained sole property of first place in the Ridge
Bowling League for the fourth week of the season. This sets
the stage for their confrontation this week with One More
Time, who remains in second place and is expected to
challenge Allen for the top position.

For second place, Special Idaho's team is extended to
Friday's Competition for this week. KAD's John
Ridding and Shohlan in Gold Division; and October
23rd against the Eagles Toke All-Stars.

LANCELLE ADAMS

This is the soccer team's coach, Lancealle Adams. He is
very active in the school community and has been on an
invitation to his home-

SOCCER CORNER

First of a series of articles describing the players on the Eagles
soccer team.

BRIAN MEYER

As the Eagles' goalkeeper, Brian Meyer plays a vital role as
the last line of defense and goal keeper. His constant
attentiveness and quick reflexes are crucial to the team's
defensive strategy.

Eagles Take
Season Opener

Showering down on St. Leo's
Meadow this past Friday, the Eagles
shocked the field with a dominating
performance and a 2-0 victory over
the visiting Tigers.

BENZBAD "ALLAN" KARIM

Soccer is Beirut Karim's favorite sport. Traveling from Iraq,
he came to Embry-Riddle as a freshman in the aeronautical
engineering program. Playing the right middle half position
for the Eagles, Karim has a great background in soccer, first
playing the game all his life but more recently in the last two years.
Wave on his high school team, he followed in the footsteps of
many international players who have contributed to the game.
"I love the excitement of playing soccer and getting to know
the other members of the team better," Karim commented. Ameri-
can rules are somewhat different from international rules and
out what playing under these rules is like. His goal is to become
a professional, and he is already looking forward to his future in
soccer.

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**Textbook Questions And Answers**

**Questions most often asked by Students: Why so many tests on the Book?**

The final exam does contain the select the textbook to be used in a class. The instructor is charged a cost of $90.00 for each textbook. The price of the textbook is not high when it is compared to other books that have the same name. It is claimed to be considerably less expensive than similar textbooks. The price includes a study guide, which is used to help students study the material.

### Intranaval Flag Football Tourney

**Sun. December 3, 1977**

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**NEED A FLYING CAR?**

By Kenneth L. Fox

Now it is possible to see the virtue of a flying automobile and the idea of it in existence. Materials conserving fuel can use the new experimental lightweight aircraft materials for good design, durable, "fuel-worthy", and fuel conservation by these key size and shape above; with high quality automobiles in large numbers to increase these attributes.

Being designed for flight as the next "hot market", the vehicle to conform to all design, construction, and operation rules and regulations applicable to airplanes and automobiles; taking advantage of all the still available for passenger safety, yet providing at added dimension for freedom and yet enjoyed by everyone.

The weapon of flying instead of driving long distances has come to be recognized, yet not everyone is expected to need a flying car. For those who do, these unique craft would be as good as they are important for aircraft of the garage and hangar.

The research, design, and planned practical application can be discussed. The readable Aircraft (flying automobiles) RAND Engineering projects, meetings will be held at 10 a.m. and 15 noon on Saturday and Sunday in the Common Purpose Room. Anyone interested may attend.

### Determination - Continued from Front Page

**Goodyear Develops Inflatable Target**

AKRON, Ohio - An inflatable target on which the Air Force by Goodyear Aerospace now tests its latest missiles has been described as an "aircraft." The 3-foot by 25-foot targets hold to their shape despite repeated impacts. The polyurethane-coated nylon target is for both air-to-air and air-to-ground testing. The $417,000 contract was let by the developer, the Department of State, Eglin AFB, Florida, which recently tested a prototype target successfully at White Sands, N.M.

The target, with its launcher and retrieval system, is designed to look like a fighter's wing and can be deployed by F-16, F-15, F-101 and F-102 aircraft at speeds up to Mach 1.25.

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**Embry-Riddle Aeronautical University**

**Page 2**

**October 3, 1977**
1.5 TYPES OF THUNDERSTORMS

Thunderstorms are generally classified by the way they develop. Two types are important: non-frontal thunderstorms and frontal thunderstorms.

1.5.1 AIRMASS THUNDERSTORMS

Two basic criteria are common to thunderstorms of the air mass type:

1) They form in a warm, moist air mass that is no longer associated with a front; and 2) They are usually isolated or scattered over a large geographic area.

The airstream thunderstorms may be subclassified as convection, orographic, or nocturnal. They are formed by heating over land areas, convergence, or radiation cooling aloft and occur both in the middle and tropical latitudes.

1.5.1.1 CONVECTIVE THUNDERSTORMS

Convection thunderstorms can occur anywhere when solar heating is sufficient to the lower layers to cause thermal instability. Thunderstorms usually form over a land area in the afternoon when convection is at its maximum. While land areas offer the most solar heating during the day, an ocean effect has spatial variability which results in the thunderstorm's movement toward the formation over the sea at night. Thunderstorms may disperse over the land at night and simultaneously form and intensify over water - this is often true in the Gulf states where the Hermann's High forces most thunderstorms over the land during the day.

Note: In an area of converging airflow, lifting takes place, and if moisture and instability are present, thunderstorms will usually result.

1.5.1.2 OROGRAPHIC THUNDERSTORMS

Orographic thunderstorms may form when air moves over a mountain range. The resulting lifting action is modified with orographic thunderstorms forming dependent upon such things as:

1) The slope of the terrain;
2) The height of the terrain;
3) The wind speed;
4) The mountain present; and
5) Instability.

Forcing is to both the orographic and lower latitudes, surface heating (convection) will also greatly contribute to the formation of orographic thunderstorms.

In the U.S., the most common place for orographic thunderstorm development is in the western portion of the Rocky Mountains; they may form in a line resembling a cold front. Orographic thunderstorms flying it is always dangerous since they are invariably associated with "wind shear" formations.

1.5.1.3 NOCTURNAL THUNDERSTORMS

At night, radiational cooling from land areas or other lower layers will form convection cells whereas cool air descends from aloft and warms as it moves from below. An unusually high relative humidity and very low wind will be present for thunderstorms formation. Nocturnal thunderstorms are most prevalent in the tropics and are very common in the lower latitudes of the U.S. during late summer and winter.

1.5.3 FRONTAL THUNDERSTORMS

Frontal thunderstorms tend to form in lines and therefore are usually much more numerous. FrONTAL thunderstorms are the result of the dynamic activity which achieves greatest development in the frontal areas; although severe cold front thunderstorms sometimes move into the lower latitudes as well.

1.5.2.1 WARM FRONT THUNDERSTORMS

Warm front thunderstorms (usually scattered) are found ahead of all frontal thunderstorms and are usually accompanied by extensive stratus clouds and low cloud cover due to the small slope that is characteristic of the warm front.

1.5.2.2 COLD FRONT THUNDERSTORMS

When cold air pushes faster than the warm air, "wedge" storms develop over cold, moist, warm, unstable air (pushing it up?), thunderstorms will probably develop. The cold front thunderstorms is the most severe of all thunderstorms excepting the squall line type. Cold front thunderstorms are usually easy to recognize because they form in continuous lines parallel to the front with little or no form clouds to obscure them. Cold front thunderstorms exist on active days during the afternoon hours and will usually move south somewhat faster than the speed of the warm front thunderstorms.

Lifting action at the front produces an area generally great enough to produce thunderstorms, but if the front is warm, moist, and unstable, the cold side thunderstorms may be found as far as 50 to 100 miles ahead of the front and parallel to a rapidly advancing cold front, although squall lines may develop perpendicularly to cool wet-warm or stationary fronts. In the mid-west, squall-like thunderstorms (the most violent thunderstorms known) often produce hail, continuous lightning and/or tornadoes.

Most squall lines will develop during and in late afternoons, rapidly move eastward and eventually impede after dark when they are replaced by cold air. This may be repeated for two or three times until the cold front moves across the country.

The thunderstorms are usually strong and frequent the area between the Rocky Mountains and the Appalachian Mountains on the Gulf Coast States.

1.5.3.1 STEADY STATE THUNDERSTORMS

In contrast to the limited-state thunderstorms which possess themselves the uniformity of development relatively quickly, the steady-state thunderstorm may be continuously severe for up to 12 hours. In the steady state, thunderstorms, updrafts and downdrafts or currents and meteorologically affecting the thunderstorm and cloud systems may be:

1) It is affected by some strong front or line of cold air.
2) The mechanism of the cells is continuous and becomes self-destructive (like the limited-state thunderstorms).
3) It is a stationary or quasi-stationary thunderstorm.

The steady state thunderstorms (which are associated with a squall line or a cold front parallel line) are usually steady-state thunderstorms.

The one thing meteorologists agree on is that these do not fall through the squall, therefore the updraft is in no way important and continue to grow in intensity until the thunderstorm reaches equilibrium. See figure 2.
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