STUDENTS ELECT NEW S.G.A.

In one of the strongest attempts to improve student involvement in the S.G.A., the election of President Wednesday, September 21, saw Bob Allen and his challenger Smokey Stover face off in a presidential debate. Moderated by Marty Keller, the debate was held in the U.C. The panel consisted of six students chosen to represent both sides. Following 30 minutes of questions to the presidential candidates, the panel then took questions from the audience. Thereafter, questions were accepted from students in the audience.

Thursday, September 22, was the election. After a minor agreement, it was decided by the election committee that there was only one voting booth. This was located in the U.C., and manned by Quiz A. and Vets Club members. After the voting closed at 6 p.m., the votes were counted and giving the Bob Allen/Al Graves ticket the election by a count of 398 to 319.

The results of the senatorial race were as follows:
- Senators: Bob Allen
- Senatorial: Mark Lyons
- Senatorial: Patricia Nozat
- Senatorial: Paul Werner
- Senatorial: Fred Stuck
- Senatorial: Steve Rice
- Senatorial: Jim Ward

The election also considered the new freshman class, which was accepted by the Student Government Association.

Bob Allen is surrounded by friends and questions after the debate. Bob can be found next to himself taking one of S.G.A. business in the S.G.A. office in the University Center. (Photo by Paul Hansen)

Flight Technology Gets New Hangar

This new trimester is bringing several changes to our campus environment. You might have noticed some added activity across the ramp where the 55-2 and 55-3 are located. Flight Technology is now located in the hangar that Embry-Riddle originally used when first here at Daytona Beach. The change of location is an example of how much flight is growing, Bob Miller, Flight Tech's department head, states clearly that the new location will give the entire university a chance to grow together, not separately.

As Mr. Miller explains, the Flight Technology building is demanding full preparation for professional courses. After asking several students for their thoughts of the program, Mr. Miller says that they feel as though it is fulfilling their expectations completely. Even from an outsider's viewpoint, it is evident that the process involved in professional flight is followed in the letter. Now in its own location, Flight Technology is the center of flying and progress.

With only minor organization left, the staff and instructors are definitely settled into the slightly new atmosphere. When talking to them, you can see improved performance and student satisfaction as a whole. As Bob Miller's prime objective to inform, the students on the outlook for professional aviation, through seminars. At this new location the program now has breathing room to accomplish objectives like this.

Bob Allen is surrounded by friends and questions after the debate. Bob can be found next to himself taking one of S.G.A. business in the S.G.A. office in the University Center. (Photo by Paul Hansen)

Flight Technology's new hangar is seen across an empty ramp. (Photo by Chuck Henry)

The Avion
THE AWARD-WINNING NEWSPIECE OF COLLEGE AVIATION
EMLBRY-RIDDLE AERONAUTICAL UNIVERSITY
Volume 27, Issue 3
SEPTEMBER 28, 1977
OPINIONS

ALRIGHT! THAT'S ENOUGH MUDSLING, CHILDREN. There's no point in blaming someone for starting it, or for how much mud they've spread around. In fact, the time for blame and accusations is past. It is time, everyone, get on the same channel, start trying to work for the improvement of the S.G.A. and the rest of the student body.

Bob Allen and Mike Jaworski are to be congratulated on the race they ran. If anyone wants a good example of student involvement, he only needs to watch Smiley in action. I sincerely hope that the new S.G.A. administration can encourage Smiley and Mike to stay involved.

And speaking of the new administration - Congratulations and Good luck! Bob Allen and Al Graves are to be congratulated - they won the battle and the election. But the war is still ahead, all my well wishes won't do a bit of good if the entire student body can't get up of dead center and help. Bob and Al have not only a new year to work with, but they've got a new constitution that must be organized and act on. It must be done.

You must allow congratulations go out to Bob Allen and Al Graves. I wish them success in putting their campaign programs into effect during the coming year. The new organizational structure of the S.G.A. also has to be implemented, so there's a mountain of work in store for them. I'm sure they'll be able to tackle it, otherwise they wouldn't have entered into the presidential race.

As for me, I plan to work hard for the S.G.A. as I have been a proud member for all my days. As for myself, I plan to work hard for the S.G.A. as I have through the year and at the S.G.A.

I'd like to express my thanks to all the students who supported the Smiley/Jaworski ticket. Even though we weren't elected, I feel that the campaign was well worth it. What other opportunity does one have to get out and meet the rest of the student body on a one-to-one basis? I'm very grateful that I had the chance to talk to as many of you and to hear your views.

My most sincere congratulations go out to Bob Allen and Al Graves. I wish them success in pulling their campaign programs into effect during the coming year. The new organizational structure of the S.G.A. also has to be implemented, so there's a mountain of work in store for them. I'm sure they'll be able to tackle it, otherwise they wouldn't have entered into the presidential race.

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VIEWPOINT

By Jim Harris

QUESTION:
What do you think of the food services at Embry-Riddle?

1) "Compared to the Apollo restaurant at the Scottish Inn, this is a gourmet meal."  
2) "Free institutional food, it's not bad."  
3) "If it runs a close second to possibility."  
4) "The food isn't bad, but it's not worth the wall, most trash piled on the west side of the U.C., and they should list the price of optional items."  
5) "It's food!"

Scholarships Awarded
By Jim Zorals

Congratulations are in order for three students who won RAU academic scholarships for the Fall '77 term in recognition of their scholastic endeavors. The recipients were senior urban C. Irish with a $950 full tuition scholarship, and two $475 awards were earned by junior John E. Phelps and sophomore David Welsh.

These Scholarships were awarded on the basis of meeting credit hour requirements and outstanding grades point average. Determination of the recipients is made by the financial assistance committee.

Several forms of financial assistance are available through the school. Kenneth Druhan, faculty representative on the finance committee, said, "The University provides some money out of its own funds for certain scholarships. For more information on loans or scholarships, contact the Financial Aid office in the administration building.

E-RAU has contracted a new service to operate the dining facility this year, Profound Food Management Corporation (PFM) charged with the responsibility of improving the food service, has employed 22-year-old Dan Prickett to supervise the program.

Prickett began his job training with PFM five years ago when he served as Food Director for the dining program at the Boy Scouts of America campground at Muskogee, Oklahoma, a facility feeding 1,700 people daily. He gained additional experience in jobs at Lake Bomoseen, New York, Missouri Western University, and in his most challenging assignment at Western Carolina University.

Prickett was able to impress Western Carolina's food program from a $15,000 deficit and improve quality within a year. Prickett was then selected to oversee E-RAU's meal program.

Prickett's position as Director of Food Service is more than a full time job since 100 hour work weeks are often required to properly supervise a new operation. Hopefully, his youthful enthusiasm will enable him to devote as much time as is necessary to improve the food operations.

Although many students will admit that meals have improved markedly in the past few weeks, Prickett and his program will continue to excel and be accelerated by introducing new ideas in preparation and service. The recent, better-quality meals are an example of such planned improvements.

When asked why E-RAU couldn't have a meal plan for which students could pay a flat rate but still get "seconds" on certain items such as salads, Prickett stated that the space required for doing any multiple serving area would make this an impossibility. When questioned about the quality of the foods purchased, Prickett instantly defended his choices of foods by stating fairly that only the top grades of most and produce are purchased.

Several E-RAU centers only the top two food grader. Further, Prickett offers those grader in sufficient quantity to qualify for volume discounts. Ideas and produce are delivered several times each week to produce the very best top food truck hauls.

The overall price of the food service at E-RAU looks promising. Hopefully, new director and enthusiastic Prickett will give the hungry students something to look forward to.

FOOD SERVICE

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Dan Prickett is serving behind the line of the buffet Lashun, another of his innovative ideas.

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The pledge classes have shown a strong desire to belong to Delta Chi. As a general reminder, anyone interested in pledging will be free to do so up to 12 p.m. on the pledge period through special arrangements.

We showed a strong effort at Sunday morning breakfast with the Brothers of the Wind. Unfortunately, even though many were putting up a good fight, we were beaten. At least, you know, like our opponents, were able to keep our pants up! The news that we’ll do better next week. Don’t forget about Beach Gardens next Saturday. Transportation has been arranged and the van will have the freshly baked at 5:30 a.m. sharp, that’s right—this week in the morning.

The final outcome of this weekend came to a close when we held interviews for new pledges in the Fall Term of 1975. We are very proud to announce that we are giving out our first pledges to the prospective pledges. We welcome you; one and all.

Congratulations to our newly initiated brothers: Rich Blakely and Steve O’Connor. We also had a good week-end and are feeling strong for the Delta Chi Fraternity.

Lambda Chi
By Jr H.

This past weekend was a good one for Delta Chi. Friday night most of the brothers got together and invited some of our favorite hanging-out places and really did have a good time.

Saturday we had our first batch party, everyone had a good time. We wasted a few good hours, and smoking made us look worse. Turn-out was excellent with many new faces, along with all the brothers being their usual friendly selves. Except for a few items lost in the sea. Everything went smoothly, and by night everyone had gone home excluding those centered for the last time. The word goes out that the “new look” is on! Any AE or ACCT student wishing to join the Sigma Phi Delta team, with its awesome Sigma Phi Delta members. Sigma Chi was held to only one touchdown pass, no last seconds in the game. In the meantime, the SPD office had two long runs (and touchdowns) that were called back at least one fumble due to penalty. Also, the Sigma Chi office had four first downs on passing to players on Sigma Chi’s name. Last Sunday was the first time in recent years that Sigma Phi Delta has lost to a football game (513 B. Ridgewood Ave. Any

Eric’s is now
700 Broadway 256-0904
We Deliver to Home or Dorm

E-R.A.U
E-R.A.U.

The Riddle Packers began their Fall trimester with their first football game. We had our “Prairie Dog Bath” at Hopkins Point in the Ozark Forest. As usual we left late, Packer tradition, one more game for Mr. Riddle at 11:30 a.m. with a front of rain and cold 100 yards of snow and a layer of mud. About 20 miles away at downtown, the cannon pulled over for a short celebration. The “Blue Bears” broke the 100,000 miles mark. So we broke out the sun and put a top on the leg. After a quick toast we were back on the field. Shortly thereafter, we were setting up camp under the ever-present blanket bag. After a few hours and a game, we decided to take to the water before a few and are sitting in at the Riddle while the guys sit in front, prepar ing for another great evening. We all hope to see you there. Our Riddle evening meeting may be postponed or changed for the evening meeting and the next gathering.

Riddle Packers and a short dip in the lake, we all

E-R.A.U. McGill Club
By Patricia Nezad Publicity Chairman

Don’t forget about our next Sigma Chi Diner scheduled for Dec. 10. Must be in by the weekend of the 11th. See the notice in the student newspaper. This dinner will be held at 7:00 p.m. Faculty-staff lounge upstairs in the University Union. We will be happy to see you, and we will serve a menu that is a little different than usual.

AFROC
By Bill Stiles

As the cost of living rises in our area, so do our activities. More and more difficult to pay for social events, AFROC offers $3 and $5 scholarship plans. These scholarships are given to full-time students. In addition, AFROC will pay you $100 a year for completing a year of ROTC. These scholarships are available to senior ROTC students. For more information, contact any officer; information is available at the AFROC office or Bill Stiles, Box 4021.

AFROC is now
700 Broadway 256-0904
We Deliver to Home or Dorm

E-R.A.U
E-R.A.U.
FLIGHT SAFETY

By Tony DiCiccaretti

Rushed control inputs sent the F-15 off the runway, the aircraft went through the overpass. The pilot was not seriously injured. The first flight 7 and 717 accidents occurred because the pilots attempted to take off with the flaps in the "UP" position. Illustrations such as these are explained in terms of inattention to detail and self-discipline.

From this, the known-precedent of accident causation can be established. Because of the almost identical similarity of accident, cause factor, and the repetition factor which exists, the known-precendent concept can be stated in highly significant terms: An aircraft accident cause factor, like history, tends to repeat itself.

Our task is to develop the pilot's capacity to recognize and avoid accidents producing hazards. This does not mean that the task has been accomplished merely because the information has been presented. The process is not complete until the pilot understands, is motivated, and can apply the knowledge. Many hundreds of thousands of words have been written and spoken on the subject of safety. Laid end to end, they would undoubtedly stretch from here to the moon and back. Words alone are not the answer. The proper attitude towards the flying environment is the all-inclusive answer for it is the master key. Flying is an unlimited idea of freedom; the pilot with the proper attitude should live to enjoy this freedom.

LIKE RUFFLED FEATHERS - The maintenance crew covers on McDonnell Douglas Corporation's F-15 Eagle stand open for inspection. The Eagle, an air superiority fighter now in service in the U.S., Europe and Asia, has 185 acres down and busts covering a total of 50 square feet to make maintenance work faster, safer and more dependable than it's ever been. Virtually every system on the F-15 is accessible through three covers - 80 per cent of which can be removed without detachment of a fact that helps explain why the Eagle requires 61 percent less maintenance time than the older F-15 Phantom. (Photo courtesy of McDonnell Douglas Corporation)
There's a new Sun at Volusia Mall...

Our newest Sun Bank is now open at Volusia Mall giving you the added convenience of banking while shopping. And don't forget... you get a SunBank 24 Card free with a Sun Bank checking account. It lets you bank anytime... day or night... weekdays... or holidays. And when you're out of town you can use your SunBank24 Card to get cash out of your account... anytime... at any SunBank24. Presently there are 50 SunBank24's in the state and more are on their way.

**MALL BANKING HOURS:**
- Monday-Thursday: 10 AM-4 PM
- Friday: SunBank24
- 10 AM-6 PM
- Anytime

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**FOR RELAXATION**

Let's Go! Shopping!

**Halifax Lanes**

660 Mason Ave.

Belleair Lanes

Belleair Plaza

**Sorrento Delicatessen, Inc.**

Within Walking Distance of the K-Mart Shopping Center

DELL, DEBB, PIzza

**SPECIALS**

MONDAY - WEDNESDAY 50¢

THURSDAY - FRIDAY 75¢

MONDAY THURSDAY

DELL Dbl. DLX 11.45

DELL Lange's M'r 9.95

DELL Bbq's & Bbq's

OPEN 8 AM TO 10 PM

PHONE: 256-1817

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**EMBRY-RIDDLE AERONAUTICAL UNIVERSITY**

**TCP Shows Its Value in E-RAU Research Project**

One of the fuel additive TCP substantially reduced engine en... to a critical level. Financially, the university achieved a break even point, and several additional benefits were noted.

**There's a new Sun at Volusia Mall...**

Our newest Sun Bank is now open at Volusia Mall giving you the added convenience of banking while shopping. And don't forget... you get a SunBank 24 Card free with a Sun Bank checking account. It lets you bank anytime... day or night... weekdays... or holidays. And when you're out of town you can use your SunBank 24 Card to get cash out of your account... anytime... at any SunBank24. Presently there are 50 SunBank24's in the state and more are on their way.

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INTERMURAL FLAG FOOTBALL

Intermural Flag Football season got under way this past Sunday at Sand Spur Stadium on Carolina Drive. The first three games of the day saw the East teams of the Blue Division matching strategies. Sigma Chi officially because the first team to score in the new season picking up 5 points on a safety in the first half on a mix-up by their opponents Sigma Phi Delta. Sigma Chi’s defense proved to be outstanding the remainder of the game as they held Sigma Phi Delta to no points and scored once again themselves for a final tally of 8 to 0 in favor of Sigma Chi.

The second game of the day saw a well organized group of gridiron heroes at Brothrs of the Wind take on Delta Chi. Pass playing and running plays put points at the board in both halves for the Brothers of the Wind as their defense came up with a few key interceptions to give them the second straight shutout of the day. Darrell Brown, the quarterback for the Brothrs of the Wind, sound things a little shaky late in the second half for a hot and angry morning but the teams excellent organization once again showed above all as he was seeing to the team truck to re-place his pair of shorts which were really mistaken for a flag by the determined Delta Chi defense. In a matter of moments, he was back on the field leading his team on to victory with a 13 to 0 effort over Delta Chi.

The third game of the morning saw the Miller Boys match wits with the 60’s. The Miller Boys offense proved to be the best as they handed the 60’s a 12 to 0 defeat. The 60’s held together through the efforts of Earl leader, Chuck history, but could not seem to get the breaks.

In the West Conference of the Blue Division, the first two games were won by football going the Forty Boys on an easy 6-0 victory over Hang Ten who did not field a team. This puts Lambda Chi in the Blue Division West Conference. The second football finish Who Came to pick up a 6-0 victory over the Bamboozlers who failed to field a team.

The final game of the West Conference saw the Mavericks hand the Vikings a 12-0 loss giving the Mavericks the fourth victory straight of the day.

The final three games of the day pitted the East Conference teams of the Gold Division. In the first game the Veal Club got on the board first against the Radom early in the first half to take a 6 to 0 lead. As the game progressed and defenses tightened, it proved to be the crucial TD as neither team scored in the second half.

The Radom and AFROTC went to the sidelines at half time in a 13 to 13 tie. The Radom defense proved to be superior in the second half as they held the AFROTC passing and running game to 0 points. Their offense came on to score twice more with the final score being Radom 24 and AFROTC 12.

The first group are the equally determined teams of the IC’s and Beach Boys matching plays with the Beach Boys coming out on top handing the IC’s a 12-0 loss and the slack desert of the day.

Attendance was good and all teams played well. If you are looking for something to do on a dull Sunday, pick a team and come out to hand Sand Spur Stadium and help cheer them on to victory.

BOWLING

E-RAD’s Bowling League has once again represented the school with an outstanding turnout and performance by all the bowlers.

The league is now twenty-teams strong, however a few spots are open still for substitues.

Thursday night action saw Wall Shooters take the high game known by firing a 253, followed by a 178, and a 162 for a series of 593, Mike Drake also rolled a 593 series with games of 204,145,240. Ken Hansen of Sad Kurnis, led his team to four wins with a high game of 203 and a 519 series. Other “500” series were: Dave Warr in with a 416, Chuck Trenwill in with a 531, and Gary Sanders in with a 529.

The women were also well represented with Trish Widdow, bowling a 413 series with a high of 172, followed by Caroline Cash with a 433 series, and high women’s game of 176. Marilyn Sils took third place with a 164 high game and a series of 429.

Soccer Season Begins

By Jim Zurlo

Staff Writer

The Eagles Soccer Team is out to capture first place this season and they can do it. The team is composed of Europeans, Hawaiians, West Indians, Koreans, and all students giving it an international flavor. Most of the players were raised on soccer as it is their national sport much as soccer is in football.

Coach John Butler is from England and has played soccer all his life and played professionally for the Leicester City F.C. in England at the age of 16. He also played in Gibraltar while serving with the Royal Air Force. Coach Butler is the off-campus coordinator and has been with Emory-Riddle for 18 months.

“I love soccer and would like to see more students involved, particularly foreign students,” Butler commented. “I have a lot of faith and confidence in this season’s team.”

Rudy Janis, a player from Barstow, Southern California, comments, “Football is on the team is very high. The team has the highest potential of any team in three seasons.”

During a match, the Eagles have only 16 players to choose from for the 11 man team while other large universities have enough players to put in a whole new change of team. The Eagles deserve great credit for playing with this disadvantage because 90 minutes is a long time for a person to play soccer in a match.

Steven Ponzetti, a team member from this state, “Last season, we came in second place. It wasS part of our season to have less speculation than the opposing team at the tournament match. We need support just like any other sport.”

During practices, the players mainly work towards physical fitness, getting to know each other, and working out plans to use against opposing team. Coach Butler said, “We usually have a practice scrimmage to avoid boredom during each practice session.”

The Eagles practice from 4:00 to 6:00 on weekdays on the soccer field near the administration building.

Riddle-Riddle is providing the team with gold and blue uniforms. “If the players look good and feel good in their gear, I feel they’ll put forth a little more effort,” Butler pointed out.

All students and faculty are encouraged to attend the soccer team’s home matches. We’ve got an excellent team with speed, experience, and enthusiasm. They need your support to ascend the Eagles as they try their fancy footwork to rake-in the opposition to lead Emory-Riddle to victory.

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HOT AND FAST
IMPROVEMENTS ARE MANY IN 1978 SKYHAWK

WICHITA, KANSAS - Skyhawks for 1978 from Cessna feature optional air conditioning, an accessory power switch and a 28-volt electrical system. There are several important improvements on the new Skyhawk are designed to maintain its standing as the world’s most popular airplane.

"New features and options on the 1978 Skyhawk allow operators to tailor the airplane to their specific needs," said Cessna President Victor Bob Lair. "Skyhawk air conditioning means additional comfort for pilot and passengers and will also improve the building environment for student and instructor during pilot training." Lair said.

Cessna factory-installed air conditioning keeps the Skyhawk interior cool and comfortable on the ground as well as in the air. Its 14,000 Btu capacity and four overhead vents molded into the interior trim combine for optimum circulation of cool air through the cabin.

Easy operation of the air conditioning unit is provided by controls located front on the pedestal. There is a three-speed fan switch and a combination on/off, variable temperature control.

ASTRONAUT TURNED EXECUTIVE

(Article follows in an Associated Press dispatch resolving around Frank Borman, former astronaut with the U.S. space program who is currently the President of Eastern Airlines.)

"We have to keep a close eye on the competition. It's very competitive. The Airline world is a very tough industry and we have to keep on top of things," said Borman.

Aerospace Control is powered by a combination lock switch and circuit breaker on the lower left panel instrument. The circuit breaker for the radio audio system can be set once and all buttons can be turned off and on with the main switch. A change to a 28-volt electrical system for 1978 means the Skyhawk can accept the full line of 28-volt equipment.

The increased voltage also allows for extra starting power and more capacity for demanding electrical load.

An improved door window latch of drum lock design does not severely and does not interfere with the next panel.

Several options have been added to the model, including an enhanced operating range and comfort, including a molded headliner, a safety net, and a side curtain for additional weather protection.

A rotating control wheel with a 28-volt battery in the cockpit includes a safety net, and a side curtain for additional weather protection.

The next chapter in the story of the Skyhawk is Courtier, a model that will be offered in 1978. The new model features a 28-volt electrical system, a 14,000 Btu air conditioning system, and an improved door window latch of drum lock design.

In a recent interview Borman spoke of his political background and possible future. He said that he was close to Richard Nixon before the Watergate fall. Nixon talked to Borman about "the country's best interests." Nixon "thought he had the country's best interests at heart," he said, "but I was close to him in 1976, but now we're on a separate track." Nixon's decision to run again in 1976 has been approached by a high bid for the presidency.

He said, "Stop whining. "Could we do it? Oh my goodness. Why not?" He believed in Nixon's decision to run again in 1976, and was. Nixon himself has been approached recently about a bid for the presidency.

NASA -- Come See It!

NASA'S KENNEDY SPACE CENTER IN MERRITT ISLAND, Florida, is scheduled for its first orbital flight from Kennedy Space Center in the spring of 1978. In April, a Skylab Launch Complex 39's massive structure has already been repaired for its new role. The many exhibits, space films and lecture demonstrations at the KSC Visitor Center are open to the public without charge. The guided bus tours are available for a nominal fee.

The Skylab Launch Complex, a sister to the Kennedy Space Center, is accessible via the NASA Cen.

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1.1 INTRODUCTION

Approximately 44,000 thunderstorms occur each day around the world with about 1,000 in progress at any given moment. Conducting these facts, a pilot will frequently deal with thunderstorm hazards, but avoidance is the pilot's primary concern. However, sometimes during the course of any given flight, he will be confronted at least once with the problem of thunderstorm precipitation.

1.2 THE THUNDERSTORM DEFINING

According to AC 05-31, an airport when a thunderstorm is defined as “a storm characterized by a cumulonimbus cloud, and always accompanied by lightning and thunder.” It is interesting to note that a thunderstorm is always a cumulonimbus cloud, but not necessarily vice-versa; usually attended by strong wind gusts, heavy rain, and sometimes hail. It is usually of short duration, seldom over two hours, for any one storm.”

At best the following three factors must be in existence for thunderstorms to develop to take place:

a) the air must be unstable or at least conditionally so;

b) the air must have a relatively high moisture content; and

c) there must be some type of lifting action. The lifting action may be provided by thermal heating, uplifting fronts, frontal activity, or convection.

1.3 THUNDERSTORM CHARACTERISTICS

A typical thunderstorm is usually a cluster of several isolated cells in close proximity to one another. Each cell usually moves at a speed from seven to fifteen miles an hour, changing orientation or appearing in the next cell in dependence of that in the other cells.

1.3.1 VERTICAL DEVELOPMENT

A thunderstorm’s vertical growth tends to be limited by the tropopause because of its thermal stability. Although, in rare cases, thunderstorm tops have penetrated up to 12,000 feet above the tropopause due to their momentum. Thunderstorm height is generally lower in the polar regions than the equatorial region because of the lowering tropopause height when nearing the pole. The highest thunderstorm recorded had tops well over 70,000 feet and grew at a rate in excess of 7,000 feet per minute. When a gust is growing slower than 1,500 feet per minute, a "puff" (weak) cloud may form in the clear air or over it due to the rapid gust below. See fig. 1.

1.4 THE THUNDERSTORM LIFE CYCLE

Every thunderstorm cell goes through three stages of development: the cumulus stage, the mature stage, and the dissipating stage. These three stages usually occur over a 40-mile period of 30 to 60 minutes.

1.4.1 CUMULUS (BUILDING) STAGE

During the 40-minute cumulus stage, the thunderstorm cell has developed with formation of a cumulus cloud. As long as there is thermal instability, high relative humidity, and strong upward lifting force, new cloud cells could become cumulus in a very short period of time.

During the cumulus stage, the thunderstorm cell is composed entirely of development of rain is not prevalent, the updrafts in the cumulus cloud are strong enough to accelerate the upward velocity of the cumulus cloud. In this stage, the cloud droplets are either held suspended within the cell or do not grow into greater significance. The water droplets grow in size due to the process of condensation. (two or more droplets impact and form one larger droplet). Air is extracted from outside the cloud by the strong updrafts within it which may vary in velocity from 2,000 feet per second to 100 feet per second, depending on the draft's velocity and the size of the cloud. Generally, the cumulus stage will last approximately 10 to 15 minutes. See figure 9.

1.4.2 MATURE STAGE

When the precipitation becomes heavy enough, it no longer be sustained by the updrafts and rain, falling at 37,000 feet with which it forms a down draft. This down draft will be augmented by concentration of the cloud, which may reach over 60,000 feet. The mature stage will last approximately 10 to 20 minutes. See figure 9.

1.4.3 DISSIPATING STAGE

The dissipating stage occurs, when the downdrafts spread over the entire portion of the cell, although the cumulonimbus cloud may still exist in the upper portion. This dissipation stage may be due to the downdraft (which may have been present in the mature stage) spreading out with the associated winds and may reach over 70,000 feet. Light rain, cloudy condition lighting, and an absence of clouds, ground lighting indicates a cell is in the dissipating stage.

Turbulence is less intense during this stage and composed mostly of weak downdrafts. Lower portions of the cloud tend to become stratified, finally, the whole cloud loses its definition and becomes "bedding in." The time span of this dissipation stage is the most visible of all stages discussed. See figure 9.