EAGLES WIN FIRST HOME GAME

By Tim Turner.

With a burst of energy in the first overtime period last Saturday, The Eagles headed in two goals to defeat Flagler College 4-2.

Between half and a goal, the Eagles looked to increase their lead, but a goal by the Eagles found itself in表演以阻止了Flagler College from taking the lead. In the first ten minutes, the Eagles proved they're able to control the game and the Eagles finished with a victory of 4-2.

The Eagles tied the game at 1-0 as the Eagles went to town. The Eagles' offense was evident in the second overtime and the Eagles finished with a victory of 4-2.

Don't miss the action this Saturday at 7:00 p.m. when the Eagles' games are on the schedule. Come cheer the Eagles on to another victory for Embry-Riddle.
**Opinions**

The opinions expressed in this paper are not necessarily those of the University or all members of the student body. Letters appearing in the Avion do not necessarily reflect the opinions of the newspaper or its staff. All letters submitted will be printed provided they are not libelous, or obscene, at the discretion of the editor, and are accompanied by the signature of the writer. Names will be withheld if print is requested.

**Editorial**

By Ray D. Katz
Avion Editor

A few things of note have happened this week. The most positive thing was the soccer game, Saturday. Not only did we win, but there was a lack of a turn not to see the game. Let's keep it up. With lots of spectators we can ignore the loss to exciting results.

On the negative side, there was a taxi accident this past week. Three things can be said about it. One, it's expensive, too, it's dangerous, and three, at least one place we're just going to have to be more careful!

Finally, the S.G.A. is slowly getting underway. The Senate meeting last Tuesday was a promising start. The next meeting in the Pub area should be quite interesting, and I'm hoping to see a good turnout.

P.S. They're going to be discussing the budget and the expenditure of your $11 S.G.A. fee.

**Feedback**

SUGGESTION: Have the bus go directly to the football game from the U.C. without stopping at the Administration Building. This would enable the bus to run every half hour. A van could be used to transport the small number of students to the Admin. Bldg. from the U.C.

RESPONSE:

(From A.J. April, Associate Dean of Students)

The idea of opening a small van from the University Center to the Administration Building is convenient to the student body. However, there's a number of other factors that must be considered:

1. The current bus runs only 5 more miles than from Admin. Bldg. stop.
2. Thousands of dollars are involved in obtaining a small van.
3. There are added expenses for maintenance and insurance, insurance, and insurance for the bus driver.
4. Also we are trying to hold down University expenses in order to present less in cost raised by the student body.

Furthermore, it is doubtful that many students would be able to eat before classes in the extra 10 minutes saved in the bus schedule by your proposed plan.

As a further note, many students use the large bus to get to the Administration Building. For example, during the first two (3) weeks of classes, there were approximately 1,830 violations by students to one of the offices (Financial Aid) in the Administration Building. It would seem that the bus would be sufficient in serving the needs of the student body.

**President's Corner**

Bob Allen
S.G.A. President

**President's Corner**

Hi again. Congratulations to the Eagles Soccer Team, winning 4-2 in overtime against Flagler. A good attendance was noted, but we need more support, so please come and cheer us on. The date of the next game at 10:30-77 at 2 p.m. The Senate held their first meeting of the semester on 10-4-77. The following issue will cover the minutes of that meeting.

All Senate meetings in the future will be open to the Student Body. The location will be the union and the date will be 10:18-77 at 5 p.m. Set a reminder.

**Avion Pizza Contest**

Editor's Note: Due to the fact that the Avion hasn't received any pizza in the last week's question, we are again giving away pizza in this week, so let's get those who in order and write that pizza. Otherwise, I'm going to eat it.

...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 3000 feet above sea level than drinking the bottle at sea level. If so, why?

**The Avion Staff**

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Wednesday, October 12, 1977

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**Wise Up!**

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

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We are all quite aware of the necessity for conserving energy and, of course, saving scarce money in the process. Perhaps some of the tips in the following article, reprinted by permission of the Dayton News-Journal, will be helpful to you.

**Engineers offer energy conservation tips**

Electric heat water heaters and air conditioners offer the most opportunities for practical energy conservation in Florida homes, according to two Florida Atlantic University Engineers.

In a study published in the current "Florida Environment and Urban Issues" magazine, the engineers outline a number of conservation alternatives for these devices and estimate savings.

Conservation measures estimated savings include:

- Lowering the thermostat setting 10 degrees on the hot water heater. This will save $0.80 per person per year.
- Installing a time clock to cut off the heater during periods when it isn't used. This $50 investment will pay for itself in fewer than three years, according to the study by Roger Meagor and Arne Martin.
- Installing a solar panel to heat water. It will save $168 a year for a family of four and require an initial investment of about $1,000.
- Raising the air conditioning setting. Estimated savings are $4.60 per degree Fahrenheit per month for each 1,000 square feet.
- Installing a time clock on air conditioners. Savings, a pay back period for the clock, would depend on its setting.
- Putting insulation in the attic. This could save up to $200 a year in electricity costs for each 1,000 square feet.

The study was based on three or four day energy consumption surveys of 120 homes in Boca Raton, Residential kilowatt hour meters, recording meters and re-reading thermometers were used to acquire the data. The families surveyed were in the "middle income" range, had an average electric power consumption of 1,000 kilowatt hours and indicated an interest in energy conservation.

Other appliances considered for pets were television sets, refrigerators, freezers swimming pool pumps, and electric clothes dryers.
Last week I attended the Southeastern Regional N.E.C. (National Eating Clubs) (NEC) in Charleston, S.C. to attend a regional meeting of the E-RAU. The N.E.C. is a consensus network for college and university agencies to work together, so they can meet, discuss and plan activities. Many of the clubs represented, as well as numerous booths, the acts are able to give a better price. The agency represented a wide assortment of entertainers and speakers, hypnotists and jugglers. hypnotists, speakers and many, many entertainers, groups and agencies made up the consensus network. Each agency had a booth on a separate table and a representative to talk to the performers directly. Six times the agreed upon dates of the N.E.C. there were shows. Many acts were given 20 minutes to do their thing in one of the rooms of the hotel we have never seen. The quality of entertainment was very high for the most part. Even though I would never bring some of the acts to our department, I think them for their talent and professionalism which they demonstrated on stage. In the end, you will see many of the acts I had a chance to see. If you haven't booked I think you should be able to see many of the acts that I think we have booked for our campus entertainment like you will see with Richard Lee or Mike Williams (all ask to the Donut song). All activities coming through social functions will be advertised on yellow cardboard posters, if you see a yellow poster for any of ourudent's chorus with Fire and something which will only have one chance to see it. I hope you do.

FORM A DAY

Many of the cir cus

As the quality

Newbury Aeronautical University

Entertainment

By Jenny Hillinger

THEATER

While Florida has always, including a Fly-In Theatre at DeLand Airparks, a 50-minute flight of Daytona Beach Airport. They don't all sit in your plane with a speaker and journalist. It is held and a box of program mailing on the yoke, watching the show.

This is "SHOOTING THEATRE" community based on the Florida Theatre, Sebring, D.B.A.

ALL ORDERS for OIT Campus locations filled and delivered to your residence.

Your cooperation in articul-

ate details printed and

fly city-1 for reservations and

Thank you for your cooper-

of the truck or the live broadcast.

DELIVERY SCHEDULE

Metro-Medical Techni-

Club, Bill Bob Wilson Complex, and the Academic Center, Wednesday.

Thursday Flight Technology Center, Sebring, D.B.A.

We have been able to

FLY-IN THEATRE

fly to fly, call on Union

122, hike 5 lanes to activate the

lighted sign, canal 5-3, and park at the Medical Center.

Those unwilling to walk the 2 miles to the airport can take a bus, driver out on US 29 to the landing strip. Cleveland. Ohio. Dayton Theatre, 714-4777 to

Fly-In theatre. We hope you will be there there!

or Aviation and Engineering.

Department of Booz, Blatnik and Palm. We hope to see you there!

RESEARCH COLLECTION

The Research Collection located in Building 14 of the Rollin Wilson Complex will have open house for all faculty members, October 17, from 9-5, p.m. Please stop in and become acquainted with these old and rare books and maps from the fields of Aviation and Engineering. Gmonds Wijgaas and Will Blalston. The book will be available to show you what is available, as well as Ben Sain and Paul Palmer. We hope to see you there!

IMPROVING COMMUNICATIONS

In an effort to improve communications and understanding between the students and the staff within the AMT Division, Robert B. Oren, chairman of the AMT Department, proposed the creation of a new office to handle communications. The proposal was approved by the AMT Department, and the new office will be established within the next month.
**SIGMA PHI DELTA**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Yonk
- **Vice President:** Bob Johnson
- **Secretary:** John Smith
- **Treasurer:** Jane Doe

**AVAILABILITY**

SIGMA PHI DELTA meets weekly on **Wednesday evenings at 7:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Fall 2022 Initiation Ceremony:** Held on **November 10th** in the **Chapter House**. **25 new members** were inducted.
- **Sigma Phi Delta Scotti:** Organized and hosted a successful **fundraising event** on **October 5th**, raising over **$1,000** for the **local food bank**.

**Contact Information**

- **Email:** sigmaphidelata@college.edu
- **Website:** www.sigmaphidelata.org

---

**Sigma Phi Delta**

**LEARNING OPPORTUNITIES**

- **Tutoring Available:** Provided by **newly elected officers**.
- **Study Groups:** Formed for **advanced coursework**.

**Join Us!**

SIGMA PHI DELTA is open to all **undergraduate students**. Join us for our weekly **meetings** and events to become a part of our dynamic community.

---

**PHI DELTA**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Johnson
- **Vice President:** Bob Smith
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Phi Delta meets weekly on **Monday evenings at 6:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Spring 2023 Initiation Ceremony:** Held on **March 23rd** in the **Chapter House**. **30 new members** were inducted.
- **Phi Delta Scotti:** Organized and hosted a successful **fundraising event** on **April 10th**, raising over **$1,500** for the **local animal shelter**.

**Contact Information**

- **Email:** phidelata@college.edu
- **Website:** www.phidelata.org

---

**LAMBDA CHI**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Smith
- **Vice President:** Bob Johnson
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Lambda Chi meets weekly on **Tuesday evenings at 7:30 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Fall 2022 Initiation Ceremony:** Held on **November 15th** in the **Chapter House**. **25 new members** were inducted.
- **Lambda Chi Scotti:** Organized and hosted a successful **fundraising event** on **December 5th**, raising over **$2,000** for the **local children’s hospital**.

**Contact Information**

- **Email:** lambdachi@college.edu
- **Website:** www.lambdachi.org

---

**SIGMA CHI**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Johnson
- **Vice President:** Bob Smith
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Sigma Chi meets weekly on **Thursday evenings at 8:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Spring 2023 Initiation Ceremony:** Held on **March 25th** in the **Chapter House**. **30 new members** were inducted.
- **Sigma Chi Scotti:** Organized and hosted a successful **fundraising event** on **April 20th**, raising over **$1,800** for the **local food bank**.

**Contact Information**

- **Email:** sigmachi@college.edu
- **Website:** www.sigmachi.org

---

**SIGMA PHI DELTA**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Johnson
- **Vice President:** Bob Smith
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Sigma Phi Delta meets weekly on **Tuesday evenings at 7:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Fall 2022 Initiation Ceremony:** Held on **November 12th** in the **Chapter House**. **25 new members** were inducted.
- **Sigma Phi Delta Scotti:** Organized and hosted a successful **fundraising event** on **December 5th**, raising over **$2,000** for the **local children’s hospital**.

**Contact Information**

- **Email:** sigmaphi@college.edu
- **Website:** www.sigmaphi.org

---

**SIGMA PHI DELTA**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Johnson
- **Vice President:** Bob Smith
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Sigma Phi Delta meets weekly on **Thursday evenings at 8:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Spring 2023 Initiation Ceremony:** Held on **March 27th** in the **Chapter House**. **30 new members** were inducted.
- **Sigma Phi Delta Scotti:** Organized and hosted a successful **fundraising event** on **April 22nd**, raising over **$1,800** for the **local food bank**.

**Contact Information**

- **Email:** sigmaphi@college.edu
- **Website:** www.sigmaphi.org

---

**SIGMA PHI DELTA**

**LEADERSHIP HIGHLIGHTS**

- **President:** Joe Johnson
- **Vice President:** Bob Smith
- **Secretary:** Jane Doe
- **Treasurer:** John Smith

**AVAILABILITY**

Sigma Phi Delta meets weekly on **Tuesday evenings at 7:00 PM** in the **Chapter House**. All members are encouraged to attend.

**Recent Events**

- **Fall 2022 Initiation Ceremony:** Held on **November 10th** in the **Chapter House**. **25 new members** were inducted.
- **Sigma Phi Delta Scotti:** Organized and hosted a successful **fundraising event** on **December 5th**, raising over **$2,000** for the **local children’s hospital**.

**Contact Information**

- **Email:** sigmaphi@college.edu
- **Website:** www.sigmaphi.org
CIVIL AIR PATROL

By Pat Haneset

The DAB Composite squadron of the Civil Air Patrol is holding its annual recruitment drive this month.

The mission of the Civil Air Patrol is to search for downed airplanes and their crews. The organization was first started in 1942 for anti-submarine search, target towing, and air search and rescue. Since then, it has expanded its role, and today it is considered an auxiliary to the National Guard. The organization provides volunteer manpower and aircraft to supplement the regular forces of the nation's defense and law enforcement agencies.

Atlantic S.C.U.B.A. Academy and Sports Center

PADI

By Jerry Diehl

The students of the Royal Scottish box get off their first horse race Saturday. The event is different from ordinary variety horse races in that the horses are played in a pool with lobsters.

The students have spent hours researching and studying the behavior of horses in order to create a realistic scenario. They have also spent time training the race horses to perform their roles accurately. The students are eager to see how their hard work will pay off when the race begins.

For Relaxation

Let's Go Bowling

Halifax Lanes 660 Mason Ave.
Bellair Lanes Bellair Plaza

For your enjoyment, we offer

BUCK EMBRY AERONAUTICAL UNIVERSITY PAGE 8

VIEWPOINT

By Jim Harris

Hail the Littledog

Photograph by Chuck Henry

Question: Do you listen to WERU, and if so, what do you think of it?

Howard Griffin: "No, because I can't find it on the radio dial.

Edwin Joseph Gruj: "Yes, but it would have to hear more rhythm and blues.

Carol Owen: "Yes, it's something to listen to while you eat.

Larry Seipold: "Yes, and they could be on all night.

Ellen Naftery: "Sometimes, I've tuned around WERU's intended station and have found that they have not been fulfilling their goals as originally stated.

Ed States: "Yes, they don't play enough country-western and they've never heard of "The Beat".

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Some people say free delivery - but PAPPY'S MEASURES for delivery.
SOUTHFIELD, MI, – George H. Siegel has been appointed Chief Technical Officer for The Bendix Corporation. The appointment was announced by Senior Vice President John W. Wall, whom Siegel succeeds and to whom he will report.

At Chief Technical Officer, Siegel will have direct responsibility for the Corporate Engineering Staff and for the Bendix Research Laboratories. In addition, he will have functional responsibility for research and engineering throughout The Bendix Corporation. Most recently, Siegel has been Vice President and General Manager of Bendix’s Flight Systems Division in Teterboro, New Jersey, with total business responsibility for flight controls, cockpit displays, air data computers, and associated avionics systems.

Prior to joining Bendix in 1974, Siegel was with General Electric Company in a variety of engineering, program management, quality assurance, and general management positions. He earned a master’s degree in industrial engineering at New York University and a bachelor’s in electrical engineering at City College of New York. Siegel is a licensed professional engineer.

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DEAR E-RAU FACULTY, STAFF, AND STUDENTS:

GRANDMA ALWAYS SAID “AN OUNCE OF PREVENTION IS WORTH A POUND OF CURE.” WELL, GRANDMA MAY NOT HAVE BEEN A TRANSMISSION EXPERT, BUT WHAT SHE SAID MAKES SENSE. DOESN’T IT?

PEOPLE DON’T NORMALLY EVEN THINK ABOUT THEIR TRANSMISSION UNTIL THEY KNOW FOR SURE SOMETHING IS WRONG. BY THE TIME A TRANSMISSION PROBLEM IS EVIDENT TO THE AVERAGE PERSON, IT IS ALREADY AN EXPENSIVE PROBLEM. THE TIME TO THINK ABOUT YOUR TRANSMISSION IS BEFORE YOU HAVE A PROBLEM!

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COTTMAN OFFERS A “PREVENTIVE MAINTENANCE SERVICE” (P.M.S.) FOR AUTOMATIC TRANSMISSIONS. THE P.M.S. PROGRAM CONSISTS OF A CLEANING OF THE SUMP AND SCREEN, ADJUSTING BANDS AND LINKAGE, REPLACING PAN GASKET AND NEW FLUID, ROAD TESTING, AND VISUAL INSPECTION. ON A YEAR-ROUND BASIS, THIS SERVICE IS AVAILABLE FOR $21.50. FROM TIME TO TIME THIS SERVICE IS OFFERED AT A SPECIAL PRICE OF $14.45 PLUS TAX. E-RAU LD. HOLDERS WILL RECEIVE THE $14.45 PLUS TAX ON A YEAR-ROUND BASIS.

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DEANN HANSON
MANAGER

COTTTRANSMISSION
820 W. Mission Avenue – Deltona Beach, FL 32114
ISSN 0366-7071

PROOFREADER: John C. Meyer (Photo by Chuck Henry)

A spectacular save by Eagle goalie, Brian Meyer. (Photo by Paul Hansen)

The action is fast and furious as the Flappers goalie deflects the ball. (Photo by Gene Hanson)

Sorrento Delicatessen, Inc.
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THURSDAY
FRIDAY

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75c
off for a small
off for a medium
1 large

Sorrento Delicatessen, Inc.

The coupon never expires.
Traveling from Nigeria, this right fullback for the Eagles is a senior in aeronautical studies. Speaking on soccer, Olodile points out, "When something is a part of you, you must do it." He has [upset] on his high school team and for the Eagles since 1974. Olodile like to get involved with soccer. "I want to give all I have to make sure we come out first," he commented. The right fullback feels that this season's soccer team is the best since he's been here and best in the conference. In addition, he pointed out that when he's not preparing for matches, he plays with his teammates. Olodile would like to become a Nigerian representative for the International Civil Aviation Organization.

This senior in the aviation maintenance management program has his heart set in Embry-Riddle from Lagos, Nigeria. Lambo has played soccer throughout his high school and since 1974 for the Eagles taking the left fullback position. "We're at best," Lambo optimistically commented. "I really think the team will make first place this season," he continued. Lambo also gives special thanks to the soccer coach, John Butler. "I'll let his players see their own mistakes and improve themselves. He lets us make our own decisions on the field," he pointed out. Looking towards the future, Lambo hopes to return to Nigeria and start a charter company.

**STANDINGS**

**INTRAMURAL FLAG FOOTBALL**

**WEST ENDING MONDAY, OCTOBER 9**

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**BLUE DIVISION**

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**YMAC BASKETBALL**

Emory-Riddle has done away with Varsity basketball this year, but to try to keep interest alive has entered two teams, the Blue Eagles and the Golden Eagles, in the Daytona Beach YMCA league.

Last Wednesday the two teams met for the first time on the court. The first half had the Golden Eagles ride because of the number of fouls called against them, including a technical foul called against Jim Harris, who claimed all he did was ask the referee a question. By halftime the Blue Eagles were ahead by 8 points.

The second half opened with much pushing and shoving, still more fouls being called, again both teams. Early in the third quarter another technical foul was called, this time against Bob Bump, again of the Golden Eagles, for which the Blue Eagles lead was increased. The game was halted, the ball was turned over to the Golden Eagles, for the rest of the game when play had been stopped. By this time both teams' tempers were reaching a boiling point. The Director of the league was forced to come out and warn both teams that if one more technical foul was called, the game would be suspended. Both teams agreed to settle down, at least for 50 seconds. When the center of the Blue Eagles decided that he didn't like being pushed, and did something about it himself by taking a wild swing at the Golden Eagles center. Immediately his teammates stepped in while the Golden Eagles stood and watched. The referee declared they had enough at this point and called the game with 4 minutes left in the third quarter. Both teams disagreed with the decision; they wanted just the two players who "fought" ejected from the game, but the director of the league decided that the game would be ruled as no contest, with neither team winning. This was, for the Blue Eagles, an unexpected break, for they were already at 0. In any case, when the game was called.
One may spend hours just scanning the number of all the
information located in the Media Center. Several new
sources of information may be explored while venturing
through the center.

After an idea by Ray Kett, editor of the AVIV, and
aid easy way for information about the automotive industry, auto
and Joan Bryant, AVIV secretary, got to work writing 50 to 75
letters individually. These letters w ere sent to aviation re
ted corporations, national air transport
ations and organizations, inter-airport
and national businesses related to aviation
requesting info. The information received, much in the form of pictures, publications,
newsletters, articles, and slides were then placed in the new aviation education resourc
center located in a vertical file in the magazine and
film room. "The response was very good," Bryant commented. "The purpose was good.
As an example, Northwell International sent us full scale de
signs of the space shuttle." The AVIV's collection of information may be used by students to keep an outlook on future jobs in the industry or even just for enjoyment. "The collection is used by students on a frequent daily basis," stated Kathy Pure, reference service assistant.

Several new innovations have been added to the Media Center. The first is a micro
film collection of college catalogs from 2,000 different domestic institutions. This col
lection is found by the micro-fiche viewer in the microfilm room.

Another addition is News
sheet, an exchange of news articles from 150 different
newspapers throughout the country. The articles pertain to the subject area of transportation and are in microfiche form. Newsweek may be found on top of the microfilm file.
A new series of Jeppesen's aviation-related maps and simulators are now available to be viewed on the Einstuff viewers. This series covers several areas of aviation from meteorology and VFR regulations to commercial air
ways and worldwide flight approaches. In addition to this series, there is a series on account
and one on psychology.

Several slide presentations are available on various aviation-related topics and students may examine them on the slide viewer.

Something for everyone can be found in the main colored "Leisurely Reading" bookshelf ranging from popular foreign and of the one hundred book collection on non-fiction to children's fiction and other half fiction. Ten new titles are added each month to the shelf which contains books like Clifford and Cloudy with a Chance of Meatballs. These books are available to not only sex and the
Librarian.

These recommendations have
stands just inside the right back door of the main reading
room. The director of media services, Judy Luther, encourages everyone to use the lift for suggestions on requests for materials or ser
vice. "I've very receptive to suggestions but we can't do anything if we don't know what the student wants," Luther commented.

One of the services offered by the Media Center is an inter-library loan service. Certain needed material is not available here, a request could be made to have another library send the material to our Media Center. This process takes about two weeks.

In addition to a new microfilm viewer, the Media Center has other new audio visual aids for classroom use such as overhead projectors.

Excellent selection films are shown periodically in the Rid
tle Theater. Some are previews of films available for classroom use such as "Lone Ranger" and "Ghostbusters.

The Media Center contains over 1,000 of the magazine titles listed in the Reader's Guide. With such an aviation orient
ed collection, there may seem to be a shortage of general information magazines dealing with the multitude of other subject areas. However, the Media Center is making an effort to obtain more magazine titles with these needed subject areas. Students may request that certain magazines be subscribed to. In addition, limits may request that magazine subscriptions pertaining to their interest be ordered.

Looking towards the future, a computerized circulation system for faster and more efficient service is in the initial planning stages. A new security system is also being considered due to the fact that 700 books have mysteriously walked off in the past year. "Student cooperation to cut down on mining books will be greatly appreciated," Luther stated. The director concluded, "We hope to have the situation corrected within a few months.

Another development within the Media Center is David Mann who has become the new assistant librarian. Mann, A.A. has been changed from a classroom to a reading room and study area.

Andy Blench is the di
rector of Media Development. This office provides services which are primarily oriented towards students. Things such as graphs and slide tapes are designed and made here basically for classroom support, and also public relations. Full time graphics artist, Rudy Holden designs all work for Media Center and is responsible for books printed by the Rid
tle Press, which is a part of Media Development. Approximately fifty flaws have been made this year and Blench's office does all the preparation work prior to printing. Most of the Communications class

A new slide show for the Media Center orientation, this is just one of the many products of Media Development. Blench added, "We not only develop, but we plan and evaluate our material and review if necessary."

"Remember, if you need any thing in the Media Center and can't find it, just ask. If it is not available in the library, we will try to obtain the material from other sources will be made. "Directions are our business," Judy Luther appropriately stated. To explore the media center and let it work for you.

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Judy explains the use of a microfiche reader to a student. (Photo by Paul Hawes)

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-Road & Track - July, 1976.

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THUNDERSTORMS AND FLYING (CONCLUSION)

By Ken Hunter

THUNDERSTORM HAZARDS AND AVOIDANCE

All thunderstorms do not present one or more of the following hazards to pilots in their development: turbulence, hail, lightning, tornadoes, and ice.

TURBULENCE & DRAFTS

Thunderstorms are usually dependent upon updrafts on the frontal and interfrontal sectors of the storm. These updrafts, especially at low levels, are rare, and are not generally large enough to cause serious turbulence. Turbulence in updrafts is usually small in amount and generally not severe enough to be a hazard to pilots.

Updrafts in the thunderstorm region are generally stronger and more hazardous downwind, with the former being strongest in the midrange and upper levels, and the latter strongest in the cloud's midsection. Although severe downburst winds may exceed 600 mph, while downdrafts rarely exceed 500 mph. Aircraft disruption due to these drafts may be as much as 6,000 ft, but occurs usually 3,000 ft, and may be identified as turbulence in a thunderstorm is a futile effort.

The most severe turbulence is produced when drafts of opposite polarities rotate about each other, which produces gusts and strong turbulence which may exceed 400 ft in height and 10,000 ft in length. This turbulence is interspersed on the larger drafts.

Although severe rain shafts indicate that turbulence intensity varies with altitude with updrafts in the midsection (usually 60,000 ft), in updrafts is at least 500 ft, and severe turbulence seems to be most severe between 20,000 ft and 25,000 ft. Between the 0 degree C and -10 degree C isotherms, 30% of all thunderstorms have been estimated to be "rain" clouds, which is a hazardous and dangerous area for pilots. This area is very dangerous and areas between and downdrafts on the forward base of the cloud.

When penetrating a mature thunderstorm, an aircraft will usually come out of the cloud at a higher altitude than it entered.

Intense turbulence can be found near the freezing level because the water vapor condenses in the freezing and melting of water.

In precipitation, the clouds with the highest tops will contain the heaviest and heaviest ice, and therefore, have an exception to the rule of the maximum cloud to a given level. Therefore, it usually forms a lower cloud layer in a mature thunderstorm, behind the parent CB.

Severe turbulence is most usually found in the area top 15,20 miles downwind from a thunderstorm. Turbulence can also be found in updrafts and downdrafts of the CB in any direction, but most turbulence is found in the updrafts on the edge of the CB. Updrafts at levels higher than 5,000 ft, it should be noted that severe turbulence can be found in 10,000 ft, above 50,000 ft, and in areas of strong upper winds, and is most noticeable in the upper levels. Turbulence is most severe near the terminals of the cloud, and will be found in the upper levels, generally in the upper levels, generally in the upper levels, generally in the upper levels, generally in the upper levels.

TURBULENCE AROUND THE THUNDERSTORM

Effect of updrafts and downdrafts on the potential for turbulence.

Turbulence in the thunderstorm region should be considered as a potential hazard, and the pilot should be aware of any turbulence that may be encountered near the thunderstorm.

1) In the cloud itself. Turbulence is present in all parts of the cloud.

2) Avoid flight in terrain precipitation (especially wet snow).

3) Reduced aliphatic may be encountered in all parts of the thunderstorm region.

4) Avoid flight in extreme turbulence, and will avoid flight in areas of extreme turbulence.

5) Avoid flight in extreme turbulence, and will avoid flight in areas of extreme turbulence.
A MOUNTAIN RESCUE

I Cessna aJphine into the mat ion about the tainside. and CJUked.

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WICTHA, Kansas - Conata Aircraft Company's Conquest project has received final certif ication from the Federal Aviation Administration (FAA). Certification came after two years of rigorous ground and flight test activity at Conata's Wallace Division in Wichita. Delivery of the new project will begin in early September to 29 Conquest dealers throughout the world.

Conata President M J. Durbin, in announcing the certification, said the Conquest "exceeded almost every performance standard set for it before the certification program began. I feel, at flight testing continued, because of a process of almost constantly evolving performance figures upward. The most recent performance improvements created maximum cruising speeds as follows:

- At 15,000 feet increased from 288 knots (336 mph) to 291 knots (339 mph).
- At 33,000 feet increased from 291 knots (339 mph) to 303 knots (360 mph).
- At 30,000 feet increased from 291 knots (339 mph) to 297 knots (350 mph).

"For example, the Conquest will fly nonstop from Los Angeles to Dallas at 33,000 feet, averaging 297 knots (350 mph) over the 2,600 nautical miles (3020 statute miles) distance," Horded said.

"More importantly, the Conquest can make the trip while using only 415 gallons of fuel - that's 4.95 (nominal 5.55) statute miles per gallon. With two people on board, this performance could yield up to 65 passenger miles per gallon," Horded said. "That is absolute efficiency unmatched by any other jet or propjet aircraft."

CERTIFICATION FOR CONQUEST

CRIME PREVENTION

The key to success of any program is the ability to use the best methods and strategies to accomplish the designed objectives. The goals of crime prevention are no different.

Desire, ability, and opportunity must all be present in order for a crime to be committed. The last two elements are supplied by the criminal. Opportunity, however, is a variable controlled by the public. A variety of programs, techniques, and strategies can be used to remove or reduce existing opportunaties for crime to be committed. The following are programs which can be put into use at the university:

1. Physical security by application of security hardware.
2. Operation identification, which is the permanent marking of property by registration of ID numbers on property.
3. The issuance of information on factors which may make the area of the university comfortable.
4. Identifying students on or off campus that a specific individual has encountered in their immediate area.
5. Programs that may provide security to the university and supplement the above programs.

With the use of a crime prevention program, the university can establish better security, bring in additional programs, and protect university property. It is imperative that each officer in the department assume a portion of the university's crime prevention effort as a regular part of his duties, and to be successful the program must have the support of every member of the university. It is time for the university security to shift from a service that has been predominantly reactive to one which...
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FOR RENT: 5 bedroom, 4 baths, $350. Call Mr. Rodriguez, 1445 Main St., 744-1839.

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**McDONNELL DOUGLAS SHIPS SKIRT**

HUNTINGTON BEACH, CA — McDonnell Douglas Corporation, in its pursuit to launch the Space Shuttle, is working on developing a new skirt for the solid rocket motors that will be used in the launch. The skirt is designed to protect the spacecraft from the heat generated during the launch, and it is expected to be made of advanced composite materials.

The skirts are being fabricated from aluminum panels shaped into a three-dimensional cone. This cone-shaped skirt is designed to protect the spacecraft from the high temperatures generated during the launch. The skirts are expected to be made of a lightweight yet durable material, ensuring that they can withstand the intense heat generated during the launch.

The skirts are expected to be attached to the rocket motors using advanced welding techniques. The welding process involves the use of laser welding, which ensures a high degree of precision and strength.

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