

11-9-1983

## Avion 1983-11-09

Embry-Riddle Aeronautical University

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### Accidental meeting

During taxi tests at Fort Lauderdale Executive Airport last week, a Convalr 440 suffered a brake failure and crashed into a parked Learjet. Owned by Liberty Airline of Toledo, Ohio the Convalr was on a crash course with a hangar when its brake system failed. (Photo by Dave Frost)

## Engineering department pioneers ultralight research

By Bo Alkaninis  
Avion Staff Reporter

The Engineering Department is involved in pioneer ultralight research that will result and a knowledge of the basic aerodynamics of ultralights.

At this time Dr. Smith, a visiting professor from Penn State, is trying to set up a consortium between E-RAU and Penn State to get some basic research about ultralights. He is working with Lee Kluger and Wayne Shadle under a special topics course, AB499.

The students, Lee and Wayne, are investigating the airfoil characteristics of the typical single and double surface airfoil used on present day ultralights. They have built representative 2-dimensional

airfoil models to be tested in the wind tunnel and will soon have data on the C<sub>L</sub>, C<sub>D</sub> and C<sub>m</sub> versus (angle of attack) curves as well as some data from tuft tests and smoke tunnel runs.

The test data are being gathered by using the Engineering Department's HP Data Acquisition unit which is compiling inputs from Mr. Ladacic's six component force balance for more accuracy in the data.

Obtaining some hard facts about the characteristics of ultralight airfoils proved to be a difficult undertaking. As Lee Kluger stated, the ultralight design process is "very seat of the pants designing." He pointed out that the manufacturers they contacted were very hesitant to part with informa-

tion because of the R&D in the industry, which stands for "Rob and Duplicate."

A group of professors and students were able to visit the Advanced Aviation Inc. plant in the Orlando area, which manufactures the Cobra line of ultralights, and obtained the maximum thickness of their airfoil sections and the position back on the board. The group also learned the technique used to find the "best" airfoil section which involves trial and error. The manufacturers take an ultralight out on a certain day with several different airfoil forms which are slipped into the fabric, they try each one until they find one they like best and go with it. As for more see Ultralight p13

## Fall aircraft utilization is hindered by scheduling problems

By Tim Milligan  
Avion Staff Reporter

The problem of too many Aeronautical Science students enrolled in afternoon flight courses is "hindering full utilization of planes," said Paul McDuffee, Director of Flight Training.

"Another problem caused by the overloaded time period is that morning academic courses fly up too fast, which means that other non-flight students can't get the classes they need."

The curriculum requires flight students to see an advisor. The advisors and Registration and Records try to maintain a fifty-fifty ratio of flight

students between morning and afternoon classes. But after the first year, some students have their schedule changed so they can take other classes at more convenient times. These students have mostly switched into the afternoon classes, which has caused the ratio to sixty-fifty in favor of afternoon classes.

Val Kruse, of Registration and Records, thinks that the reason that students are switching over to the afternoon classes is, "most students don't like getting up at 6:30 a.m. to go to class."

The problem may get worse on November 15 when advanced

registration begins. All students up until now have been required to see an advisor. However, things have changed this semester. Only students on academic warning, academic probation, and new students (freshman and transfers) with less than 24 hours attempted at E-RAU must see an advisor. This means that all the rest of the flight students are free to choose between morning and afternoon courses.

According to Paul McDuffee, a study is now underway to discuss solutions that will help deflate the problem. One method discussed, was to close see Airplane p 13

## Regional airport terminal is renamed after Jack Hunt

By Eillion Elliot  
Avion Staff Reporter

The Daytona Beach Regional Airport terminal was renamed the Jack R. Hunt terminal, honoring the Embry-Riddle president. The ceremony took place Friday, Nov. 4, 1983 at the regional airport.

Daytona Beach Mayor Larry Kelly and the Volusia County Council approved the act. "The tribute that the Volusia County Council and the community pay today to Jack Hunt is as unique as the man. For the first time, a county building will be named to honor a citizen... It is only

fitting that this singular attainment belongs to Jack Hunt," read the events program.

After an opening prayer and invocation by Dr. John Wheeler, member of the Humanities/Social Science department here at Riddle, Mayor Kelly dedicated the day (Friday Nov. 4, 1983) as "Jack R. Hunt Day," in honor of the dedication and fulfillment Hunt has brought to the community of Daytona, and for the efforts and achievements that has accompanied him with the success of turning a school of 239 students in 1965 to a major

university today of 5000 in Daytona

This formal occasion was attended by guests as well as local television and news coverage.

After Mayor Kelly's proclamation of Jack Hunt Day, a tributory speech was made by Dr. Thomas C. Kelly, manager of Volusia County, in which he outlined Hunt's achievements and endeavors. Dr. Kelly commented, "Those who make their mark in the world cross the juncture of dreams and destiny - pragmatic builders who shape

the future by molding visions into reality - Jack Hunt is such a man."

Dr. Kelly also commented on a book being passed around the room titled "In Search of Excellence," a book invariably about Hunt and his achievements. Dr. Kelly appropriately added, "Jack Hunt is one of those men who have made that search, and his background is a reflection and pattern of such excellence..."

Besides the terminal being named in Hunt's honor and the fact that the day was also named in his honor, a plaque was

presented to Hunt by Jack Ascher, Chairman of the Volusia County Council. The plaque, which outlines Hunt's achievements and numerous aviation awards, will be permanently mounted at the Volusia Avenue entrance to the airport.

In his own words, the E-RAU president explained his self-image: "First let me make clear...that I am not Embry-Riddle Aeronautical University. This plaque," he added, "belongs to the community, the students and faculty and

everybody who made this...possible."

After Hunt's speech, a toast was proposed by general William W. Sprunt, chairman of the board at E-RAU. In an interview later with Jack Ascher, he added comment on Hunt's tribute: "It just blossomed out. We realized what a tremendous person he is and all his contributions to community." When asked if there were any other community figures as possible candidates for this honor, Ascher added, "...no, not at all. He stands out above the rest."

### Part two of a series

## Aircraft convention is buyers paradise

By David Frost

New age of advanced aerodynamic aircraft. Even the National Business Aircraft Association's 36th annual convention in Dallas, Texas presented a large forum for the aviation manufacturing community to display their wares. (See Avion, Oct. 19). Aside from the usual convention business that was dealt with by the association's members on October 4-6, the Dallas Convention Center housed representatives from every imaginable area of the aviation world. The presentations by these manufacturers were very elaborate and impressive, a sign that buyers were to be found and no expense was too much.

Many new aircraft were presented for the first time to business aviation with roars of great approval, pointing to a

new age of advanced aerodynamic aircraft. Even the National Business Aircraft Association's 36th annual convention in Dallas, Texas presented a large forum for the aviation manufacturing community to display their wares. (See Avion, Oct. 19). Aside from the usual convention business that was dealt with by the association's members on October 4-6, the Dallas Convention Center housed representatives from every imaginable area of the aviation world. The presentations by these manufacturers were very elaborate and impressive, a sign that buyers were to be found and no expense was too much.

Several announcements of new and more efficient engines were prominent, especially with turboprops and turboprops. A new engine is being jointly developed by Rolls-Royce in Great Britain and Turbomeca in France. The RTM322 will form the basis of a family of engines of turboshafts, turboprops, and turbopans. Rolls-Royce has been working on a fuel saving turbofan for the new Gulfstream IV. The new Tay provides a 15 percent improvement in fuel efficiency over earlier Gulfstream engines, and

also provides increased thrust and low engine noise levels.

General Electric displayed their CF34 turbofan engine which was recently certified August of last year. The CF34 has reached several milestones along its production line; a non-stop flight of a Canadair Challenger from Calgary, Canada to London, and FAA authorization for a 3,000 hour time between overhauls. Joe Rowe, CF34 Program General Manager, commented on the CF34's accomplishments in its first 18 months of service, "There have been no CF34 engine caused removals or in-flight shutdowns in approximately 700 flights and 2,400 engine flight hours."

The engine to power the new Fairchild 300 was unveiled. The see Convention p 5



This simulator was common of the various wares at the National Business Aircraft Association. The cockpit pictured was filled with Collins Avionics and representative of a futuristic Gulfstream jet. (Photo by Dave Frost)

# Editorial

## If Trees Could Speak

By G. Sherwood Kennedy, III

Palm trees are funny things. They never talk much, at least not when people are around. However, this reporter had the occasion last week to interview a particularly outspoken tree which just happens to have been one of several donated to the Embry-Riddle campus.

This palm tree spoke on a variety of issues, both about the situation here on campus as well as events affecting trees around the nation and around the world.

For quite some time, before the interview really got rolling, the tree was very quiet, as if in deep thought. The tree eventually came around and spoke in a low, rumbling sort of voice for the remainder of the conversation.

Concerning the campus scene the palm was deeply troubled about a rumor it had caught on a breeze saying that somewhere on the campus there was a plaque which read "This memorial park is dedicated to those students who DIED while attending Embry-Riddle Aeronautical University—Presented by the graduating class August 1983." The palm's worry was that this plaque, if it was in a very prominent place on campus, such as near the visitor's parking lot, might speak ill of the university to a newcomer. Such a plaque, according to the tree, is of course important to those who have been directly affected by a death at this school; however if the rumor is true then, as the palm tree says, "Possibly the plaque could be moved to a less prominent yet as important place on campus. (If it's not stolen first!)"

In comments on the broader issue of the bomb scares on campus, this particular Palm is quite frightened. "It scares the fronds off me whenever I see the students pouring out of the academic complex during a time when I know they're supposed to be in class. I can't just pick up roots and run away, you know. What would people think?—There goes that damn old palm tree running away from a false alarm again! It just wouldn't be right."

"Something else bothers me too," the palm continued. "The Avion blows by my trunk occasionally and whenever it does I notice that there is no communication from your student government. Is there such a thing on this campus? If there is, how do they tell the students they are representing what they are up to? For all I know, they could be considering turning a racquetball court into a weight room. Wouldn't that be a funny thing, taking a room designed for one purpose and spending the students' money to use it for a completely different function. That sounds like something they would do."

This reporter then noticed that there was a tear in an eye of one of the palm's coconuts and inquired why. The tree replied, "I can't help feeling sad for my relatives on Grenada. So far they have been caught in the middle of what appears to be the U.S. looking for 'a war we can win', and the Cubans saying 'tourist trade'. They, like myself, can't just pick up roots and run away. It wouldn't be right. I cry for them and I cry for anyone else in such a situation and for their relatives and friends. I pray for peace. I speak for the trees."

## the avion

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The Avion is a member of the National Council of College Publications Advisors, Associated Collegiate Press and Columbia Scholastic Press Association. The Avion also subscribes to the Campus News Digest and College Press Service.

Published by the students weekly throughout the academic year and bi-weekly throughout the summer and distributed by THE AVION, Embry-Riddle Aeronautical University, Regional Airport, Daytona Beach, Florida 32014. Phone: 904-252-5561 Ext. 1082.



# Letters

## Geographical Incompetence

To the Editor:

We may be trying to become a "Harvard of the Sky," but if we don't get our bearings straight on the ground, it may be quite difficult to earn "our wings."

Apparently, someone in the administration is an avid believer in the theory that California will become an island, protruding from the western coast of the U.S. in all of its glory. As if the realization of this theory weren't enough, they have shifted a whole piece of Middle America 400 miles westward. This would mean that if you decided to travel up the east coast of the U.S., you would have to take a boat to get from North Carolina to New York if you wanted to travel in a straight line.

Everybody has a right to freedom of thought, but I would appreciate it if they didn't impose such a ludicrous idea on the rest of the world, especially in association with Embry-Riddle.

If you think that I am aimlessly composing a story, take a look at the 82-83 catalog and at the few bags the bookstore has developed. You will notice that state bordering northern Arizona is not Utah as every map tells us it should be. It's Colorado. It is beyond my comprehension why this discrepancy has not been corrected.

Whoever the new born theorist is, I would greatly appreciate it if you would keep

your theories to yourself, take a geography course, correct your misdeeds, and save the reputation of this university.

Jacqueline James  
Box 2651

## Dishonorable display

To the Editor:

While the nation mourns for the American servicemen who died overseas, it irritates me to see our own university's security treat the American flag in a dishonorable and unpatriotic way. Ignorance is no excuse for failing to display the flag correctly. When the flag is flown at half staff, the flag is to be treated with the utmost respect.

The correct way to fly the American flag at half staff is to raise it quickly and proudly at sunrise to the top of the flagpole. Then immediately after the flag reaches the top, it is to be lowered to half staff slowly and sadly, symbolic of a nation that is mourning. At sunset, the flag is again raised to the top of the flagpole briefly, and is then finally lowered to the bottom without touching the ground.

Sadly enough, we sometimes have to fly our American flag at half staff, but when we do, the persons who have the honor to clip the flag onto the line to raise it must do it respectfully—as if the families of the fallen servicemen are watching. Not only do these families deserve this respect, but so do the men who gave their lives.

I sincerely think it would be in the best interest of Embry-

Riddle Aeronautical University's security depart-

ments to take a more lenient attitude towards the American flag in flying it correctly, respectfully, and proudly.

Kenneth D. Owens  
Box 1318

## ATC fee scam?

To the Editor:

As students who participated in the original FAA/ATC Internship at Washington ARTCC, we would like to express our opinions on the Avion article, "ATC Co-op Fee Questioned," October 26, 1983. From the beginning of the program, January 1983, we questioned the administration's reasoning as to why we had to pay full tuition. To this day we still have not received, to our satisfaction, a valid explanation for this charge. While at Washington ARTCC, we were given such excuses as:

1. President Hunt's idea.
2. We were intern not co-op students.
3. Cost of establishing new program.
4. We were receiving 9 credits with the option of taking self-paced courses.
5. FAA determined the fee.

Collectively or singularly, these explanations do not justify the additional \$850 charge over the normal co-op fee levied upon us. Dowling College in New York also participated in this same program, receiving identical training, benefits and credit hours without any charge to the students. One reason stated in the Avion for this high fee was to establish and construct a manual lab here at Embry-Riddle. This manual lab was unavailable to us prior to our first internship, therefore being useless to us. If this is the administration's reasoning why we were charged, why weren't the first flight students charged the cost of the aircraft and flight line? Furthermore, once the original cost of the lab has been paid for, what will become of the revenue paid by each student during each internship.

It was also stated in the Avion, that a decision had been made "somewhere in the chain of command...", to lower the fee to \$325. This was the first indication we've received about a reduction in the fee. If this is true, it appears to us we are definitely entitled to it refund.

We feel the administration is engaging in a serious abuse of this program. The internship is an excellent opportunity for those involved. It's unfortunate that the administration is trying to capitalize at the student's ex-

pense.

We ask the administration to be up front and honest in their explanation to us of why we were charged this unjustified fee and what will be done in the future.

Paul M Kirk  
Box 7626

Charlie Sample  
Box 4287

## Avion commended

To the Editor:

I wish to take this opportunity to thank Louis Kady for the news story about the Aeronautical Science Tutorial Program. Again, the Avion staff proved their excellence and demonstrated that they report with responsibility. From time to time errors occur but it only serves to prove that they are only human and not machines.

Everytime I read the Avion my thoughts return to the late 1960's when the paper amounted to two legal sized manila sheets stapled in the upper left hand corner. Look at it now!

It is often easy for all of us to forget that the young men and women who spend hours and hours interviewing people, checking the facts and writing the story, are students. They each have their course assignments to prepare, class reports to write, and tests to take. Too, they each have personal problems to solve; all this in addition to meeting a deadline so that you and I can enjoy the paper and be kept informed week after week.

In this day when it seems that the in thing to do is find fault with everybody, I for one, congratulate the staff of the Avion. They can be justly proud of their work.

Dana Middlekauff  
Assistant Professor of  
Aeronautical Science

The Avion appreciates all letters to the editor

# Klyde Morris

# wes oleszewski

WE'RE HERE TODAY WITH MAJOR MAX NAME, COMMANDER OF THE LAVENDER BERTS. MAJOR, WHY THE DECISION TO INVAD...  
OLD PEOPLE?

THOUSANDS OF 'EM...  
OLD PEOPLE.

...THEY WERE ESTABLISHING A BASE HERE, AND BEING OUR CAMPUS IS PRACTICALLY NEXT DOOR WE FELT THEY WERE A THREAT TO OUR SCHOOLS SECURITY. NEXT THING YOU KNOW THEY'VE MARKED US ANOTHER THIRD STREET GERIATRIC CENTER!

ISN'T THAT JUST A LITTLE FAR FETCHED MAJOR MAX?  
YOU WOULDN'T SAY THAT IF YOU'D HEARD HOW THEY WERE DUG-IN IN SPORTING GOODS.

...IN THESE THE FIRST FILMS RELEASED FROM THE K-MART VIDEO DIVISION WE SEE THE ELITE ELECTIC CORPS, THE LAVENDER BERTS STORMING THE PARKING LOT...

...AND IN THESE SEQUENCES THE TROOPS ARE ENGAGING A GROUP OF GERIATRICS IN HAND-TO-CANE COMBAT.

YESSIE... NOBODY CAN USE A RIFLE BUTT LIKE THOSE LAVENDER BERTS.

LOOKS LIKE THAT'S ALL THE FOOTAGE WE HAVE, SO WE'LL RETURN TO OUR REGULARLY SCHEDULED PROGRAM. WE NOW JOIN HAPPY DAYS AGAIN, AND AGAIN, AND AGAIN, ALREADY IN PROGRESS.

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# Veterans: Leaders, fighters and contributors

Let us take a brief moment to pay tribute to the nation's veterans.

As they marched through the life of a soldier, they left their footprints in the pages of the Army's heritage.

Some of the footprints are visible, like the roads and bridges built by Army Engineers. Others are invisible, like the ethic of duty-honor-courtesy.

Veterans do not carry their war records in their pockets. Everyone knows wherever veterans served, they left their mark.

All of the marks of all of the veterans add up to what Veterans Day is all about — a day to honor them for their service and sacrifice.

Veterans were fighters, leaders and contributors to the independence, expansion and development of the United States — Veterans worked as a team.

They performed their duty as best they could, and when the need had come home to veterans, Veterans of World War I can remember the parades and welcoming ceremonies in honor of the returning fighting men. In homes all across the USA, a picture of the veteran in uniform was placed in a conspicuous place for

the family to see and admire.

The hostilities in World War I had suspended at eleven o'clock in the morning, Monday, November 11, 1918, after the signing of the Armistice. On November 11, 1919, President Woodrow Wilson expressed the meaning of the first Armistice anniversary in these words:

"To us in America the reflections of Armistice Day will be filled with solemn pride in the heroism of those who died in the country's service and with gratitude for the victory, both because of the thing from which it has freed us and because of the opportunity it has given America to show her sympathy with peace and justice in the councils of the nations."

At the conclusion of World War II, there were also parades and ceremonies for the returning troops. Service benefits and privileges were available to assist veterans in readjusting to the civilian world.

Korea is another story. There has not been a peace treaty. Hostilities have ended, but our troops stand ready to fight if South Korea were invaded by North Korea.

When the shooting stopped in Korea, there was no great desire to bring the troops home to the music of marching bands. The Korean War — at times called a

police action and the Korean conflict — was UN operations. The Korean War veterans did not share the same kind of enthusiastic homecoming that his brothers received in the two World Wars.

The Vietnam veteran is yet another story. No parades, no returning observations. In 1970, because a significant number of veterans were still experiencing readjustment problems, Congress established the Vietnam Veterans Outreach Center. Today, there are 135 of them in the nation providing a broad range of readjustment counseling and referral services to veterans and their families.

Still, there were some Vietnam veterans who felt neglected because they did not get the public support they expected.

Public support of the Army's role and mission is essential for success in war or peace. Of course the Army is not a Lone Ranger; it does not and cannot deter war or fight in a war without the support of the other services.

The total team — Army, Navy, Air Force, Marine Corps — must function as a single combat force. At the same time, we must have favorable signs on the diplomatic front as well as evidence of good morale to the general population before the

Army can be totally victorious in the battlefield environment as well as in the eyes of the American public.

Realizing that it has a role to play in keeping veterans informed, the Army is improving its soldier's separation procedures. A Veterans Separation Program has been established. Its basic concepts is outlined below.

The Army wants to show that it "takes care of its own." It will provide assistance and referral service on veterans benefits, rights and privileges.

The Army is also looking at ways to close the gap between the Army and veterans and veterans organizations.

The separation process is receiving much more attention in its responsibilities to support the veteran. The Army believes that the separation process is one of the most important events in a soldier's life. What the soon-to-be veteran hears, sees, feels and talks about during his last few hours on post will determine his attitude concerning the Army, perhaps for the rest of his life.

Before they are separated, soldiers will receive a formal presentation on the services available to them and their spouse. They may be presented the Good Conduct Medal. The Army will also encourage the

recognition of deeds and contributions to the Army. A unit formation will be the typical place to cite soldiers for their achievements. To such a ceremony, families and friends of a soldier may be invited.

The Army has a good story to tell. Today's Army is a quality Army. Secretary of the Army John O. Marsh, Jr., has proclaimed 1983 as the "Year of Excellence." We are making

our adequate soldiers good, our good soldiers better and our better soldiers the best in the world. We want the best we can get from all our people.

If our soldiers reflect quality, then you can tell the kind of veteran we are getting these days. Remember, veterans were once on active duty. They have contributed to both the Army's heritage and the nation's heritage.



## Flight Department makes changes

By Rob Olson

The flight department has redefined the morning and afternoon flight slots. Morning flight will end at 1230 instead of 1330. Afternoon flights will begin at 1230. The changes will be effective Spring 1984.

The changes should effectively

eliminate afternoon flight scheduling problems. At the present time 60 percent of the Seminole flight students fly in the afternoon. Conversely there are too many Seminole per student in the morning. The ratio of morning and afternoon flight students will be closer to 50-50

after the new times go into effect. The new time will also afford more daylight hours for the afternoon flight students.

Morning flight students are also put into a disadvantage because 60 percent of the required Air Science courses are scheduled in the morning.

All flight students are encouraged to take advantage of these time changes for advance registration. Mr. Byington, Chairman of the Flight Department stated "Hopefully these new times will promote better utilization of aircraft thus lower costs."

## Your horoscope may come true

By Stella Winder

The coming week makes unusual demands on the already successful, causing these people to work even harder and longer than they routinely do. The result by week's end: Success breeds success! Those still struggling to get ahead should find this an easy week in terms of hours and goals set for them by others. Unfortunately, they may also find in an easy week in terms of rewards, with nothing bringing quite the monetary or soul-satisfying results expected. The wise will take what comes and go on from there.

New projects do not do as well as old; innovative methods fall more often than the tried-and-true; developing relationships are inclined to run into difficulties, perhaps too severe to be overcome. Anything established, however, becomes more so this week.

**SCORPIO:** (Oct. 23-Nov. 7) — Constructive changes early in the week offer an opportunity for gain by week's end. Don't overlook it! (Nov. 8-Nov. 21) — Alternative actions may have to be put into play before midweek. This is a good week for old habits.

**SAGITTARIUS:** (Nov. 22-Dec. 7) — Promises may keep your spirits up this week; they will not, however, do much for your pocketbook! (Dec. 8-Dec. 21) — A challenge early in the week must be met without delay. Otherwise, the competition rushes ahead by week's end.

**CAPRICORN:** (Dec. 22-Jan. 6) — Relationships intensify, especially after midweek when, for many, failure begins to loom large. (Jan. 7-Jan. 19) — You would do well to secure a few allies early in the week, before you undertake anything new and/or different.

**AQUARIUS:** (Jan. 20-Feb. 3) — Definite impressions are essential if you are to achieve success this week. Don't be wishy-washy. (Feb. 4-Feb. 18) — Realize your own minor ambitions before attempting to help another gain goals of more major proportions.

**PISCES:** (Feb. 19-March 5) — Make an effort to make a masterful impression on higher-ups without at the same time seeming too aggressive. (March 6-March 20) — Keep your feet on the ground this week, even though you do have your head in the clouds. Give up!

**ARIES:** (March 21-April 4) — Partnership matters must be taken care of as soon as they come up this week. To delay is to fail. (April 5-April 19) — Don't insist upon having things your own way this week. To do so may be to split one who could have helped you.

**TAURUS:** (April 20-May 5) — Choose your direction early and keep to it late. There is little time for changing your mind this week. (May 6-May 20) — Many in trouble may turn to you this week. Don't ignore any who are sincere in their efforts to help themselves.

**GEMINI:** (May 21-June 6) — Grey skies at the beginning of the week may herald exceedingly blue ones later on. Remain optimistic. (June 7-June 20) — Your interest in new ways and means to accomplish old aims pays off handsomely this week — if you're careful.

**CANCER:** (June 21-July 7) — Make yourself responsive to others this week and you will find yourself well-served by week's end. (July 8-July 22) — A profusion of people and pets may keep you from making the kind of headway you expected in career matters this week.

**LEO:** (July 23-Aug. 7) — Seek out those with tastes similar to yours. Cultivate these people to gain both financially and spiritually. (Aug. 8-Aug. 22) — Unless you find absolutely the right person to go into partnership with, forget the whole idea for now.

**VIRGO:** (Aug. 23-Sept. 7) — If you have learned the value of money prior to this week's tests of economic skill, all goes well. (Sept. 8-Sept. 22) — Your deep sense of sympathy toward one who might have helped you make this a week of disappointment for many.

**LIBRA:** (Sept. 23-Oct. 7) — Don't be in a rush to focus new relationships. You would be better off remaining aloof for the time being. (Oct. 8-Oct. 22) — Strong feelings are not necessarily a bad thing this week, if you can keep them to yourself early on.

## Where am I?

This picture was taken on the Daytona Beach Campus. It is of something or someone in plain view of the discerning eye. Entries must be placed in the contest box in the Avion office. In case of multiple correct answers, a winner will be drawn on Friday by the Editor. The winner will win ONE FREE MEAL compliments of Epicure Food Services, Inc.

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**The All New  
Daytona Gym**



**Senior Class Meeting  
Thursday, November 10  
7:00 p.m. in the Pub  
Area of the U.C.**

**Agenda: Fundraising  
Class project  
Class Party**

**All December graduates  
requested to attend**

**The All New  
Daytona Gym**

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- ✓ The finest and largest weight lifting gym Daytona has ever seen!
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## 'All the right moves' look good

By Ellison Elliot  
Avlon Staff Reporter

This week, the critic's eye found himself at the Volusia Mall Cinema to review *All the Right Moves*, a movie which was well received by major New York critics.

This very simple fact has an immensely cohesive, as well as profound, effect on the quality of this film. Also, the movie did

The movie was set around a small Pennsylvania town of blue collar workers. The blend between story, character, and environment was very good, not center around one character or one theme. Instead, there are several examples of human relationships that the audience can generally relate to — this adds a

strong point to the effects of this movie.

The film is one about a high school athlete, Stephen Groznovich (played by Tom Cruise, who also starred in "Risky Business"), and the string of trials that he encounters during his senior year. The theme of the movie does not end here, however. It goes on to show the role he plays in an informal group of friends and how they affect his life. There is an effective reciprocal value in the film, which is totally contrary to conventional movie making.

The story is not all sunshine and blue skies. Instead, there is an equal air of pessimism throughout. This, I believe, was added to the story line to bring equilibrium to the movie; this

directing format added to the overall good rating of the film. It covers real life situations in a real life setting, and it covers both the good and bad repercussions of the events that unfold.

It also helped to lay the foundation for the story that reveals for the most part past personal judgments that we sometimes take for granted. One good example is the scene where Groznovich, in making a point to his coach says, "You sit

behind your desk making decisions of who goes where. Who are you?...God? You're nothing but a typing teacher..."

And by the same token we're only as good as the next guy.

This very realistic, well casted film is up to par and I highly recommend it simply because it is a story about relationships between the two extremes of good and bad and about basic human nature. *All the Right Moves* gets a strong 8 in my log.

## Steppen Out...

By Arthur Eyzaguirre Jr.

This week *Steppen Out* takes advantage of an Associated Collegiate Press convention to travel to Chicago.

There are several places that were checked out in Chicago and a final conclusion is that Chicago has a wide variety of eating and drinking establishments.

I would like to make a comparison first of all with Michigan's Chicago and Daytona. The Bennigans in Chicago has the same atmosphere and lively crowd as Daytona but their menu has a lot more to offer. They have several sandwiches (I had the club) which are not listed on the menu here. Also, they have a large variety of wines, including champagnes at reasonable prices. One thing that I found unique was the way the restaurant was set into the building just like the adjacent skyscrapers complete with a revolving brass door.

Staying at the Hyatt Regency Chicago, the hotel had many interesting places for writing and dining. The lobby itself had a spiral platform with plush cushions to relax and enjoy the scenes around you not to mention the cocktails served by the beautiful cocktail waitresses.

Another place that I went to was the world famous Gino's pizzeria. Some of you might have seen the article written in *People Magazine* about the search for the best pizza. According to *people*, Gino's wins. The pizza was a bit unusual. First of all, they use some type of cornbread which gives the pizza a different flavor, also, the tomato sauce is placed on top of the cheese as opposed to the traditional under. The decor on the inside is quite amusing. It looks as if a school of derailed cars came in and graffitied their hands off. The pizza however, was excellent.

The one place I chose to actually review for the week is a place called Shuckers. Located off Michigan Ave., Shuckers is placed well inside of an old home. The downstairs consist of the bar while the upstairs houses the restaurant section. The decor was a variety of Costa Rican pictures and posters. I'm not quite sure of the connection, but there was a door downstairs with the title of "Costa Rican Constellation".

The food offered on the menu ranged widely but had a seafood twist. I had the Shrimp de Joaze which was \$11.95 and found it delectable. The prices were very good starting at \$9.95 to \$19.95. Also, the wine list had an extensive selection but was priced a little to highly (100 per cent mark-up is exact).

Due to the fact that we had a party of twenty, it is hard to judge the service but I should mention that the service at no time was bad and the general consensus was that the waitress really did a great job.

If you ever get a chance to travel to Chicago, try out some of the places mentioned. On my scale of 1 to 10, I rate Shuckers an 8 and I rate the city of Chicago a 10 for excitement. Until next week!!

## Foghat is confirmed

By Arthur Eyzaguirre Jr.

The Entertainment division of the Student Government Association has yet another hot show lined up. As most of you know, Pat Metheny was a huge success and a great sounding show. Foghat a band that has had some excellent hits has finally confirmed.

On Saturday, November 19 Foghat and special guest star

Vixen will take the stage at 4:00 to rock the students of the concert field outside. Vixen is the all girls band which was hosted in the spring trimester.

It should prove to be an energetic show. The admission is free so there is no excuse for missing it. In case of rain, the show will be moved inside and will begin at 8:30 p.m.

## Genesis cuts new album

By Todd Huffstickler

Taking it to the max, Phil Collins and Genesis have a fantastic new album out. The album includes such songs as "Taking It All Too Hard", "It's Gonna Get Better", "Mama", and "Home By The Sea".

The album's music is very much the same as all their other music but, the way they put it together and make it sound is excellent. Phil Collins does a fabulous job playing the drums and is great with the percussion.

Most of the songs on the album don't make too much sense in my opinion, but that doesn't take away from the great music. One of the songs I really like is "Home By The Sea". I guess you really have to

interpret the songs to understand what they're saying, but overall, the album is very well put together and is well worth buying. Until next week!!

Albums Courtesy Of Camelot Music.

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# Convention displays cockpit advancements

(continued from page 1)

Current TPE331-14 is expected to reach new levels of performance, fuel-efficiency, and maintainability. The engine is also going to be used on the Piper Cherokee IV and should be certified this December.

To go with the new engines on the convention floor was a new technology prop by Hamilton Standard called the Commuter Prop. The prop is specifically designed for commuter aircraft service. The prop is a four-bladed propeller with fiberglass reinforced plastic shells enclosing a solid aluminum spar. The prop should help in noise reduction, fuel efficiency, and is 50 percent lighter than conventional all-aluminum props. Its modular design permits quick blade replacement without removing the propeller.

Cockpit avionics has reached a new horizon and their manufacturers were in Dallas to provide a view of the cockpits to come. Sperry gave a view of a

totally integrated digital avionics package for the new Falcon 500 executive jet. The SPZ-8000 is a full-operational, fail-passive integrated flight director/autopilot system employing multiple sensor redundancy management to provide monitoring as well as continuous operation after a sensor failure. Also employed in this system is a flight management system which provides balanced performance and navigation computations.

The first strapdown attitude heading reference system (AHRS) designed especially for business or regional airliners was introduced by Collins. Design simplicity of the AHRS allows only one unit to perform the function of up to nine units in conventional systems and with more accuracy. High failure components of current systems, such as slip rings, brushes, and gimbal bearings have been eliminated, and the dual rotating wheels spin at one-seventh the rate of conventional gyros. The AHRS is designed to

replace today's conventional vertical gyro, directional gyro, accelerometers, and rate gyros. Safe Flight Instrument Corporation featured its new Thrust Management System. It is an eight-pound computerized unit that provides thrust management throughout a flight. It monitors all important engine parameters and provides protection against exceeding engine limits. It also commands correct power settings for takeoff and go-around, maintains correct power for cruise climb, and maintains NI or EPR settings for cruise. For aircraft equipped with autothrotles, it controls throttles from takeoff to landing flare.

King Radio introduced a new radar graphics unit which works in conjunction with their RNAV and color weather radar. With the KCR 356 in NAV mode, the weather radar will display a normal weather picture, plus the location of the VORTAC in use, and any RNAV waypoints stored. The frequency of the active VORTAC will be shown in

the lower left-hand portion of the radar display until the unit decodes the DME indent signal, at which time the three-letter station indent will replace the frequency in the display. If the location of a navigational fix is in an unsafe location due to weather, or if the pilot wishes to move its location but does not know the new coordinates, a joystick control is provided to move a waypoint to any location on the screen that the pilot desires. The new coordinates appear on the screen and one push of a button stores the new numbers in the RNAV unit.

Aviation safety was impressively represented by the Xenex Corporation. They presented the Portable Emergency Life Support System (PELS). The PELS is a hood that is donned in case of a cabin fire with an air hose that connects directly with the air conditioning vent directly above the seats. It is made of Kapton, a fire resistant polyimide film. It has been tested to withstand temperatures greater than 650

degrees Fahrenheit and has between two and eight minutes of residual air once it is disconnected from the air conditioning vent.

A Xenex spokesman commented "No would have died on that Air Canada flight if this product was on board. The problem is that the airlines aren't ready to make the investment for better safety. The oxygen masks demonstrated during pre-flight briefings will only drop during decompression, not for cabin fires." The Xenex corporation is currently working with the FAA and the House of Representatives to pass legislation requiring the PELS.

Flight instruction has taken on some new twists with the emergence of improved simulators. The Instrument Simulator Meteorological Conditions (IMC) simulator is a possible replacement for the old instrument hood. The unit consists of special goggles for the student to wear and weather control selector for the instructor. The lower inside quadrant of the goggles lens is clear until the pilot looks outside the cockpit, at which time the lenses cloud instantly to prevent visibility selected by the instructor. When the pilot looks back in the cockpit, the viewing area clears. The pilot has normal peripheral vision, free head and eye movement, and can look outside the cockpit for visual cues with limited visibility. Instrument Flight Research, the inventor of the IMC, stated "The IMC simulator is psychologically and physically prepares the pilot for instrument flight."

The NBAA Convention was certainly an excellent opportunity for all facets of the aviation community to come together to display the new state-of-the-art in late 20th century technology. Conventions like this one certainly demonstrate that the pilot of the decades to come just might become a real life Buck Rogers in the aircraft they fly and the instrumentation they operate.

# U.S. Campuses see male/female pay gap

Washington, D.C. (CPS) — The average male faculty member last year made over \$5000 more than his female colleague, and continued to get higher raises than her, a new study by the National Center for Education Statistics (NCES) says.

The gap between men's and women's faculty salaries has widened steadily since a 1977-78 low of \$3500. Last year it reached \$5274, the NCES reports. "Much of the overall difference (in men's and women's salaries) is due to women being at the lower level positions of their faculty," says Tom Snyder, an NCES analyst.

Indeed, the report shows there were 76,508 male professors last year, compared to only 9654 female profs. At the instructor level, however,

11,735 were women, while 10,527 were men.

Snyder believes the salary-gender gap will narrow as more women work their way up the ladder and achieve more seniority.

"Another reason for the discrepancy," Snyder says, "could be the salary differences among different fields of study. More men, for example, teach in engineering and computer science fields, which usually have higher pay scales than other fields."

Male faculty members also got higher raises last year — seven percent — compared to 6.7 percent for women. Men out-earned women at every academic level, the study shows.

Overall, male teachers earned an average \$28,394 in 1982-83, compared to \$23,020 for

women. The salary difference between men and women varied from \$1100 for beginning instructors to nearly \$4000 for professors.

"The growing gap (between men's and women's salaries) clearly shows that there is still a lot of discrimination against women in education," says Judy Touchton, associate director for the American Council on Education's Office of Women in Higher Education.

Even considering that many women are newcomers to higher education and may teach in lower-paying fields, "the report is proof that the progress women made in the seventies is still far from finished," Touchton says.

Furthermore, "the proof is only the first step. Based on this

information, institutions need to look at themselves and see that men and women with comparable years of service are getting paid equally."

The NCES report, which surveyed 2748 public and private schools nationwide, also found that faculty salaries overall increased 6.9 percent last year, compared to a 9.2 percent increase for 1981-82.

Faculty salaries at public schools — ranging from \$18,000 for instructors to \$35,160 for full professors — continued to lead private schools, where instructors earned an average \$16,626 and professors were paid an average \$35,040.

**There are Three Positions Opened on the Court for the Spring 84' Trimester. Applications will be accepted in the SGA Office Until November 10, 1983. Get Involved.**

**The Management Club presents Mr. Ignatius, President of ATA on November 18 at 7:00 p.m. at Treasure Island Inn**

**JOIN THE MANAGEMENT CLUB**

(Tear and send in)

<b>To</b> Debbie Kane Box 7530	Please Reserve a space for the Dinner meeting Name _____ Box _____ Member: Yes _____ No _____ Guest: Yes _____ No _____
--------------------------------------	--

# Navy S-3A Viking Fly-by & Static Display

**When: Nov. 9, 1983 at 1425  
Where: E-RAU Flight line  
Lecture: by Lt. Jack Ross, Pilot & Lt. Steve Crime, NFO in G-109 at 1900.**

Sports Editorial

# Alternative to NCAA is presented

By Joe Elm  
Sports Editor

In last week's editorial, Daye Frost and I compared the pros and cons of intercollegiate athletics here at E-RAU. The point of view we took was that the NCAA would have to sanction all intercollegiate sports on campus. Information has come to my attention this week to the contrary.

The National Association of Intercollegiate Athletics (NAIA) is an organization similar to the NCAA, but they cater to smaller schools. There are currently 515 fully accredited four-year colleges and universities that are members of NAIA. There are thirty-one geographic districts in the United States and Canada.

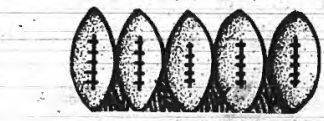
The sports that the NAIA sanctions are baseball, basketball, cross country, football, golf, gymnastics, ice hockey, soccer, swimming and diving, tennis, track and field (indoor and outdoor), and wrestling. Right now we could field teams in baseball, golf, cross country, and soccer with little or no preparation, since there are clubs to represent all four sports.

By far the biggest question is still money. The NAIA is very inexpensive for member schools. For a school this size (over 4,000 students) the cost would only be \$700.00 per year. This is a very small amount that I'm sure the athletic department could afford. There is also a membership fee for coaches. If there are less than seven coaches for each sport, which will probably be the case here, then the fee will only be \$40.00 for the whole university.

Finding coaches should not be much of a problem since each of the four clubs mentioned above has a faculty advisor who could act as coach. If the coaches would be willing to volunteer their time to the team, then the cost would be that much less.

All in all, the NAIA seems to fit just what we, the student/athletes here at E-RAU, have been looking for. This is a chance for the administration to provide intercollegiate competition for a low price.

Special thanks goes to Richard Bryant, faculty advisor for the golf club, for this information.



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## Intramural results and schedules

Just a reminder of our upcoming events: the deadline for the three pitch softball tournament is Tues. Nov. 15. Racquetball doubles is coming up and it is a SUDDEN DEATH all in one night. Deadline for that is Tues. Nov. 15 also, but you must hurry. There is a maximum of 16 teams allowed in the tournament. On Friday, Nov. 4, we started the sign-up for our Turkey Trot. It will be 10 laps or 2 1/2 miles at the Mainland Track. The deadline to sign up for that will be Friday, Nov. 18, and the run will be Sunday, Nov. 20, at 10:00 a.m. Soccer Schedule For Sun., Nov. 13th

11:10 Pumas Vs. Hellenic	
12:00 Eagles Vs. Daytona Strikers	
Club International Will Draw a Bye	
TEAM RECORDS	
Club International	4-0-0
Daytona Strikers	3-1-0
Pumas	3-1-0
Hellenic	3-0-1
Eagles	2-1-1

SOCCER RESULTS FOR SUN. NOV. 6th	
Preston	3
Hellenic	6
Eagles	4
Pumas	5

Daytona Strikers	4
Club International	7
FOOTBALL RESULTS FOR SUN., NOV. 6th	
Bros. of Wind	12
Pink Panthers	24
Fist	7
Rosch Clips	20

Delta Chi	0
Gamma Chi	32
Sigma Chi	18
Howard's	18
Organized Crime	18
Brewzers	0

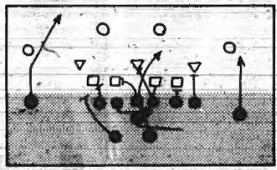
Busch Boy's	12
Blade Runners	0
Blue Demons	12
Vets	27
Sick Fux	37
The Boy's	19

FOOTBALL SCHEDULE FOR SUN., NOV. 13th	
NORTH	
11:00 Pink Panthers Vs. Bros of the Wind	
12:00 Busch Boy's Vs. Howard's Heroes	
SOUTH	
11:00 Organized Crime Vs. Gary's Gang	
12:00 Sick Fux Vs. Vets	

### DON SHULAS CHALK TALK

**TRAPS**  
One of the most effective running plays against a defensive lineman or linebacker who is quick to read and react to the movement of an offensive lineman is the trap. Like a misdirection play, in which the backs start the play by going in the direction opposite from that which the play will ultimately go, the trap is based on influence blocking. On a trap play, the object is to isolate a defensive lineman or linebacker, who is influenced into the hole, where he is immediately hit by an offensive lineman pulling from the other side of the line. Tackles

and centers can be involved in traps, but most commonly it is the guards who are called upon. The Pittsburgh Steelers have traditionally been one of the NFL's best trapping teams. One of their most important traps was run in the fourth quarter of Super Bowl XIII, when Franco Harris went 22 yards to score against the Dallas Cowboys. The accompanying diagram shows a trap play, where the right guard vacates the hole, which is then filled by the defensive tackle. The tackle is then blocked by the left guard, leaving a running lane for the running back.



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## Front wheel drives lack victories at Daytona

DAYTONA BEACH, Fla. — A front wheel drive racing car has never won a race at Daytona International Speedway, but on November 27 that may all change.

The last three cars which have won Champion Spark Plug Challenge races have been Mazda GLC, Dodge Charger and Renault Alliance. For the November 27 Champion Spark Plug 75, a record number of front wheel drive cars or Performance sedans, as the International Motor Sports Association terms them, have been entered.

Leading the attack will be Tampa's Joe Vardé in a Shelby Dodge Charger. Vardé has six wins to his credit in 1983, but has faced real pressure from Kal Showket, whose potent Mazda GLC has enjoyed the pole position six times.

Vardé said, "We've scheduled a couple of testing days at the track not only in preparation for this year's race, but to get a leg up on next season."

"When you see all the factory supported teams that compete in the Champion Spark Plug Challenge, you know winning is going to get more and more difficult."

A good example of the difficulty Vardé referred to is that Renault is making the competition debut of their American make Encore at the November 27 race.

Bobby Archer will race the car while his brother Tommy will be behind the wheel of a Renault Alliance. The brothers are fifth and sixth, respectively, in the point standings.

Vardé said, "What remains to be seen is what other new cars will show up and how strong they are. We know there are a couple of Pontiac J2000's under construction and that Ford is looking to get their Escorts in the Champion series."

Fifty cars are expected to start the Champion Spark Plug 75 during the Eastern Airlines National Championship Finale to wind up the 1983 ISMA RS series.

## Avion Swami's NFL picks for week 11

By Dave Frost  
Avion Swami

- Last week's pct. .760
- Cincinnati by 8 over Kansas City
  - Houston by 2 over Detroit
  - Philadelphia by 5 over Chicago
  - Green Bay by 3 over Minnesota
  - Seattle by 9 over St. Louis
  - Cleveland by 12 over Tampa Bay
  - Miami by 11 over New England
  - Buffalo by 6 over Jets
  - Pittsburgh by 13 over Baltimore
  - San Francisco by 7 over New Orleans
  - Raiders by 9 over Denver
  - Washington by 10 over Giants
  - Dallas by 12 over San Diego



## Avion College top 10

- 1. Nebraska (10-0)
- 2. Texas (8-0)
- 3. Auburn (8-1)
- 4. Georgia (8-0-1)
- 5. Illinois (8-1)
- 6. Miami (9-1)
- 7. SMU (7-1)
- 8. Boston College (8-1)
- 9. Brigham Young (8-1)
- 10. Michigan (7-2)

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# Jodhat

special.guest star

# Vixen

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on the Concert Field ♦ Free admission

No cameras or recorders

In case of rain the show will be in the U.C. at 8:30 p.m.

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# Computer Club to tour Epcot computers

By Cathy Jackson

Several members of the Computer Club recently participated in the Alumni Phonathon to raise money for the REAL Scholarship Fund. The turn-out was good, and although we didn't win first prize, those who participated did raise money for the fund.

The Computer Club has several tours planned for this month. First, a Hewlett/Backard Productivity Seminar will be held on Thursday the 10th and Friday the 11th. The seminar is free and everyone is welcome. For more details, see the Computer Club bulletin board in C Building. Second, a tour is planned to

Meritt Island Tracking Station at Kennedy Space Center on Saturday the 12th. We will be leaving from the front of the U.C. at 10:00 a.m. and returning around 2:00 p.m. that afternoon. We plan to eat lunch at the visitor's center or you can bring your own. A sign up sheet is posted on the bulletin board in C building.

Third, a trip to Epcot/Disney computer facilities is scheduled for Friday the 18th. Again, we will be leaving from the front of the U.C. at 10:00 a.m. and returning about 2:30 p.m. A sign up sheet for this tour is also posted on the bulletin board. More information on all of these events will be available at our general meeting.

members. For tickets and details, contact Orlando LaRosa through box 6120.

Just a reminder to those in need of a tutor, the Computer Club does offer two tutoring services. For details on the free Tutor Lab, check the bulletin board in C building. For information on the private Tutor Service or on becoming a tutor, contact Roger Goldberg through box 6920.

"We would like to thank those who contributed to the Test Bank and remind those who didn't to please do so if you can. Finals will be here before you know it and these tests can be a great help. If anyone has

any old tests, please contact Christine Roinski at box 6725 or you can drop them in the Computer Club mailbox in the Student Activities Office, along with your name and box number.

The next general meeting is tonight (November 9th) at 7:00 p.m. in the Common Purpose Room. Our guest speaker will be Ms. Betty Barnhart, Director of Data Processing for the city of Port Orange. Ms. Barnhart will be talking about Business Data Processing Conversions. The meeting is free to members and \$1.00 to non-members. Dues can be paid at the door. Hope to see you all there.

## AHP pledge period coming to a close

By Kjm Robinson

Among the "business" last week, pledge class Tau is busy crafting paddles and studying by-laws as their pledge period is quickly coming to an end. The pledges have just completed their national by-law lesson and have also finished writing AHP alumni brothers. Keep up the good work pledges, we still have two weeks.

In the wide world of AHP sports, football season has temporarily ended and Rho brothers have found another sport in which they will show their expertise: Hockey. Bill Stasel is captain and their first game will be played on Monday against the Odd-Balls. Lots of luck to the team.

Last Saturday, AHP brothers

had a taste of something other than Epicure or even Hungry-Man TV dinners, and that was Joe Juska's home cooked dinner. The brothers came prepared with Alka-Seltzer and were ready for anything. The food turned out delicious and there were no sicknesses reported. Special thanks goes out to Joe for his many hours slaving over a hot stove.

## Thunderbirds perform for Arnold Air Society at MacDill

By AAS 2Lt. Armando A. Segarra

Last Sunday, November 6, the new F-16 Thunderbirds gave a tremendous performance at MacDill Air Force Base. After their performance, the Air Force Association held a reception for the Thunderbirds. Arnold Air Society is affiliated with the Air Force Association and also attended this reception. Some of the members had the opportunity to talk to the Thunderbirds and ask them questions on what it takes to be the best. All members that went enjoyed themselves and are

thankful for having been able to meet them.

The pledge program is winding down to an end. The pledges had their last chance to get signatures at Stavro's Pizzeria. Last Monday, November 7, Gill Robb Wilson Squadron members, cadre staff, and pledges met at Stavro's for a dinner meeting. All had a great time. The pledges let the members know of another recently completed project. They helped clean up the YM-CA. They will soon be given their final tests, and on November 14, their Formal Interviews will decide their destiny in Arnold Air Society.

These interviews are part of other future events. On November 11, squadron members will help run the Special Olympics. There will be a wine and cheese party on November 12. Squadron members and Cadre staff will attend this party. On November 13, there will be a flag ceremony honoring unaccounted for prisoners-of-war and those missing-in-action. This ceremony will have guest speakers and will begin at 11:00 a.m. The outside show featuring Foghat and Vixen will have concessions by Arnold Air Society on November 19.

## L-5 hosts model rocket display

This Saturday, November 12, the E-RAU L-5 Aerospace Society will host a visit to EPCOT center in Orlando. All students are invited—and the deadline to sign up will be tomorrow in the Student Activities Office (U.C.). Payment will be due just before we leave on Saturday morning at 8:00 a.m. The price will be \$12.00 for members and \$15.00 for non-members, and we will be carpooling.

Other events that are coming for L-5 include visiting

the ninth launch of the Space Shuttle from a prime viewing site on November 28, hosting a model rocket exhibition on campus on December 2, and touring Kennedy Space Center with a banquet afterwards on December 4.

We also have several excellent NASA films to be shown at our meetings, which are held every other Tuesday at 6:00 p.m. in W-306 Lecture Hall. Elections for new officers will be held at our next meeting, and unfortunately, President Jeff Guzzetti

and Vice-president Jeff Wolfe cannot run for another term. They've done an excellent job, but now it's time to get some fresh blood in the club.

The L-5 Aerospace Society is an extremely active, informative, and entertaining club that promotes space development. If you're interested in the field of aerospace technology, then L-5 is definitely for you. Dues are a mere \$5.00 per trimester, and again, our meetings are held every other Tuesday at 6:00 p.m.

## Lambda Chi raises money

By Bruce Romeo

The brothers of Lambda Chi Alpha spent the last two weekends lending a hand to the Conklin Center for the multihandicapped blind. First, we spent Halloween weekend holding a car wash and Haunted House to raise money for the Conklin Center. We spent Saturday setting up the Haunted House, and prepared for a big day on Sunday. We started Sunday off with a car wash at the Amoco station on the corner of Beville and Ridgewood.

After a day of washing cars, we drove to Mr. Phil Metz's house in Port Orange where we got ready for the Haunted House. The Haunted House was full of eerie creatures. The grand total for the day was \$94.50 raised towards our goal, and a lot of fun was had by all. During our meeting last Wednesday, we learned to be sight guides for the blind in order to help during a blind convention at the Holiday Inn Surfside.

We also aided the Alumni Association of Embry-Riddle

in their efforts to raise money for the R.E.A.L. Scholarship Program. We called hundreds of Embry-Riddle Alumni to ask for donations so the Alumni Association can reach their goal.

Lambda Chi Alpha will continue in our efforts to assist the school and community. If you would like to be a part of Lambda Chi Alpha and help us help our school and community, drop a note with your name and box number in the Lambda Chi Alpha box in Student Activities.

## MacDill airshow thrills Air Force ROTC

By Cadet 2Lt. Byron Jones

Air Force ROTC Detachment 157 sponsored a trip to MacDill Air Force Base in Tampa last weekend. About 240 cadets attended the open house at MacDill on November 6 to view the performance of the U.S.A.F. Thunderbird aerial demonstration team. The Army Golden Knights performed their precision parachute jumps at the opening of the show, with various military aircraft on static display throughout the afternoon, including the Thunderbirds.

Cadets will tour the Pratt and Whitney turbine plant in West

Palm Beach on November 10.

The cadets itinerary will include a tour of the assembly line along with an opportunity to "fly" a S-76 helicopter flight simulator. Also, on November 9, several cadets from Det. 157 along with cadets from the University of South Florida, will be leaving via an Air Force C-141 from MacDill AFB to Mather AFB in California. While at Mather, the cadets will be given a four-day tour of the base and its facilities for Navigator Training.

The detachment's precision drill team and band will be involved in the Veterans Day ac-

tivities on November 11 and 12.

On November 11, the Drill Team and Band will perform for the Veterans of Foreign Wars Post (VFW) in Port Orange. On the following day, the Drill Team and Band will participate in Daytona Beach's Veterans Day Parade, with a performance for the Palm Coast community later in the day.

If you would like take part in these and many other activities with a rewarding career in the U.S. Air Force, then please visit the detachment to find out what the Air Force can offer you.



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# Co-op program provides valuable work experience

By Trey Ienhowar and Cindy Bowman

Co-op is a program that combines academic studies with work experience related to the student's major field of study. The co-op program is available to all full-time undergraduate students presently enrolled in any of the E-RAU degree programs. To be eligible, a co-op applicant must have completed two trimesters of academics or, if you are a transfer student, complete at least one trimester at E-RAU. You must also have a minimum cumulative grade-point average of 2.25.

To become eligible for an interview with a prospective employer, you must first attend a co-op orientation which will inform you of the benefits and procedures of cooperative education. The orientation is conducted by the Career Center, located on the second floor of the University Center next to the Cashier's Office. The Career Center will assist you in finding the appropriate

co-op employment opportunity that will best suit your field of study and they will answer any questions you have about the co-op program.

Orientations are conducted in the Riddle Theater, C Building at prescheduled dates and times. The following is a list of orientation times and dates: November 08, Tuesday, 3:00 p.m. November 18, Friday, 10:30 a.m. November 29, Tuesday, 9:00 a.m.

In order to be eligible for a co-op position during the Spring '84 trimester, it is recommended that you attend one of these orientation sessions.

Various faculty advisors throughout the university are assigned with the responsibility of providing students with information concerning how the co-op program at E-RAU will benefit their particular area of study. These advisors and their office numbers follow: Engineering, Chuck Eastlake,

Engineering Building; FAA/ATC, Bruce Morjin, G-117; Management, Rudy Knabe, E-610; Flight, Bill Fain, G-105; Maintenance/Maintenance Management, Ted Micheli, P-104; Aviation, Nolan Coleman, Q-257; Computers, A. Ransom, C-403.

Each advisor is willing to help you in realizing your career and educational goals through the co-op program. Arrange to meet the advisor for your program for additional information.

A co-op fee of \$210.00 per trimester/term offers the student a wealth of opportunities to further his/her chance of succeeding in the particular field that he/she has chosen. E-RAU has established co-op programs with companies throughout the U.S. Some of the positions available are with the FAA, NASA, Lockheed-Georgia and Martin Marietta for engineering students; Rustle Aviation, People Express, Federal Express and Philadelphia International

Airport for management students; IBM, NASA and Martin Marietta for computer students; and Gulfstream Aerospace and Air North for maintenance students. This is not the entire listing of jobs available or degree programs that are represented. There is a complete listing available in the Career Center.

Two of the companies mentioned above will be interviewing on campus. People Express will interview on Tuesday, November 8. There will be an orientation provided by People Express personnel at 8:00 a.m. in the Riddle Theater (Building C) before the interviewing begins. There will also be an orientation provided by Federal Express personnel at 8:00 a.m. in the Cosgron Purpose Room (located in the UC) before the interviews. Anyone interested in either company, even ones who may not be interviewing, are welcome to the orientations provided that adequate space is

available. Perhaps there are still questions left unanswered. However, through the co-op orientations, the Career Center and the faculty advisors, you can accurately assess the benefits and challenges that the co-op program will offer. The program is designed to provide

students with actual work experience which most companies are requiring of graduates today. The job market is very competitive and it is no secret that graduates need all they can get to land the right job. Visit the Career Center and have the experience when interviewers ask for it.

# Hams await communication with shuttle

By Tom Mackie

The Embry-Riddle Amateur Radio Club's novice class is doing very well. Within nine weeks, everyone in the class will have taken their test for the license. The club has spurred a great deal of enthusiasm in Ham radio on campus. The club meetings are growing larger every week.

Recently, a Ham in Jacksonville helped establish a communications link between the besieged St. Georges medical school in Grenada and the U.S. The Ham operator in Grenada was operating his station from under a table inside the university. He used a special code to get his information across to avoid being discovered. Hams all across the United States listened

to the reports. Hams all over the world still await for the launch of the STS-9 mission of the Space Shuttle. On board will be Owen Garritt, (WS1FLF), who will be transmitting on a 2-meter radio. It's possible to communicate with him using a hand held two meter radio, a homemade directional antenna and about twenty-five watts of power. The

Embry-Riddle Amateur Radio Club will get together and try to give the space shuttle a call.

If you are interested in becoming a ham radio operator, the classes are every Tuesday and Wednesday at 8:00 p.m. in room E-607. The next general meeting will be this Thursday at 8:30 p.m. in the Faculty Staff Lounge. Hope to see you there!

# Sigma Chi do-si-dos at down south ho-down

By Bill Isakson

Sigma Chi pledge class Alpha Eta is having an eventful week; not only are they organizing the Brother's Party, but they are having their second line-up this weekend. These men have worked hard so far, and can expect a healthy arduous week. The benefits to be gained are, as can be expected from hard work, plentiful. Good luck to these men in their tasks. Congratulations are in order for Brother Eric Dreisbach,

who, though otherwise engaged at the time, managed to organize the down-south ho-down yet. Not a detail was missed; there was an entertaining caller who made everybody's gyrations make some sense and evolve into dances, plenty of little-sisters and guests to do-si-do with, and to supply the energy for all the activities, hot dogs and beer. Of course, before the evening was over there were assorted romps

through the remaining hay, a few one-way flights into the swimming pool, and the collision of a brother with a high amount of kinetic energy and an unsuspecting VW van occurred. In town for the weekend, alumni-Ottman and Moore had the opportunity to visit with us and reminisce about the days of old. Much to our consternation, we all should have been around in the days of old. As it is, we do our best, have some fun, and pass our days. And of course,

weekdays we hit those books, as should you all.

# Jacksonville airport focus of AAEE tour

By Marie Jose Caro

Things are starting to really move for American Association of Airport Executives. At our last meeting on Wednesday, October, we laid down concrete plans for the upcoming month. This includes getting a concession stand at the upcoming Foghat concert. This

should help us finance the rest of the trimester's activities. Some of those activities are: a tour of Jacksonville Airport on Wednesday, November 16 (more information on that soon), and a dinner meeting featuring a guest speaker on the 10th of December. That will hopefully be both informative and fun. Don't forget folks, at

this week's meeting, Wednesday, November 9, photographs will be taken for the yearbook. So come on out and get immortalized! The meeting is, as always, at 6:00 p.m. in room E-611. See you there! Last minute info: the Management Club has graciously invited us to join them on the Halifax River Boat Cruise on Friday, November 11 at 6:00 p.m., cost is \$6.00. If you're interested, please leave check for \$6.00 made out to the Management Club in Box 5171. Tickets will be sent to your box. This event should prove to be enjoyable by all.

# Alumni speaks to FFWA

FFWA is sponsoring guest speaker Ms. Pat Loegering on Wednesday, November 16, 8 pm in the Faculty Staff Lounge. Ms. Loegering, a graduate from ERAU, is employed by McDonnell-Douglas Technical Service Company (MDTSCO) as an Associate Electrical Engineer for Assembly on Space Lab II. All interested students are invited to attend, dress will semi-formal. FFWA will hold a meeting on Wednesday, November 9, 7 pm in the FSL to make plans for a trip to Patrick AFB on November 13 to see the Thunderbirds, the Air Force Aerial Demonstration Team. We will also discuss the outdoor concert on November 19, guest speaker Pat Loegering and our social meeting on November 16. If you are interested in joining FFWA, we encourage you to at-

tend one of the upcoming meetings.

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# Career Center outlines job interview questions

During the past few weeks, the Career Center has been scheduling several companies to interview the Embury-Riddle graduate. One interviewer submitted the following list of questions and indicated that the people he spoke with had difficulty in answering them.

1. What are your long-range objectives, and when and why did you establish these goals and how are you preparing yourself to achieve them?
2. What specific goals, other than those related to your occupation, have you established for yourself for the next ten years?
3. What do you see yourself doing five years from now?
4. What do you really want to do in life?

5. What are your long-range career objectives?
6. How do you plan to achieve your career goals?
7. What are the most important rewards you expect in your business career?
8. What do you expect to be earning in five years?
9. Why did you choose the career for which you are preparing?
10. What is more important to you, the money or the type of job?
11. What do you consider to be your greatest strength?
12. How would you describe them?
13. How do you think a friend or professor who knows you well would describe you?
14. What motivates you to put forth your greatest effort?

15. How has your college experience prepared you for a business career?
16. Why should I hire you?
17. What qualifications do you have that make you think that you will be successful in business?
18. How do you determine or evaluate success?
19. What do you think it takes to be successful in a company like ours?
20. In what ways do you think you can make a contribution to our company?
21. What qualities should a successful manager possess?
22. Describe the relationship that should exist between a supervisor and those reporting to him or her?
23. What two or three accomplishments have given you

- the most satisfaction? Why?
24. Describe your most rewarding college experience.
25. If you were hiring a graduate for this position, what qualities would you look for?
26. Why did you select your college or university?
27. What led you to choose your field of major study?
28. What college subjects did you like best?
29. What college subjects did you like least, and why?
30. If you could do so, how would you plan your academic study differently?
31. What changes would you make in your college or university? Why?
32. Do you have plans for continued study? An advanced degree?

33. Do you think that your grades are a good indication of your academic achievement?
34. What have you learned from participation in extra-curricular activities?
35. In what kind of work environment are you most comfortable?
36. How do you work under pressure?
37. In what part-time or summer job have you been the most interested? Why?
38. How would you describe the ideal job for you following graduation?
39. Why did you decide to seek a position with this company?
40. What do you know about our company?
41. What two or three things are most important to you in your job?

42. Are you seeking employment in a company of a certain size? Why?
43. What criteria are you using to evaluate the company for which you hope to work?
44. Do you have a geographical preference? Why?
45. Will you relocate? Does relocation bother you?
46. Are you willing to travel?
47. Are you willing to spend at least six months as a trainee?
48. Why do you think you might like to live in the community in which our company is located?
49. What major problem have you encountered and how did you deal with it?
50. What have you learned from your mistakes?

# NASA to study artificial intelligence for space travel

KENNEDY SPACE CENTER, Fla. — HAL, the fictional computer of Arthur Clarke's "2001: A Space Odyssey," was a friendly servant and companion to the astronaut crew enroute to Jupiter; friendly, that is, until he malfunctioned and grew suspicious that his human masters were soon to shut him down.

Then HAL became deviously resourceful. He was determined to thwart any plans to deactivate him. The last surviving member of the spaceship crew had to perform the electronic equivalent of a frontal lobotomy to shut down rebellious machine.

Clark's late 1960s vision of artificial machine intelligence is still a long way from reality in the 1980s. Indeed, most experts

believe machine intelligence will never become a threat, that humans will remain in charge.

What has happened over the past 20 years is that computer experts working the field of artificial intelligence have developed systems which are becoming increasingly powerful aids to their human users.

At NASA's Kennedy Space Center, a working group was recently formed by the Future Projects Office to investigate ways in which some of the latest advances in machine artificial intelligence may be applied to space program uses.

"We began looking into this about a year and a half ago and decided it's the coming thing," explained KSC Future Projects Office Chief Dava Moja.

The branch of artificial intelligence which has attracted

KSC's interest is the field of so-called "expert systems" where the knowledge of a human specialist is codified, or engineered, into a computer program. The human's "expertise" is then available to others who use the machine.

Such systems are already in use. One of the earliest applications was in the area of medical diagnosis.

Programmed by a "knowledge engineer" who has coded the medical expertise of a specialist into a computer program, doctors may report symptoms and test results to the computer.

The computer will quiz the doctor for additional data, if necessary, and ultimately will offer a diagnosis. The human physician can question the com-

puter's finding, and the computer will explain in detail the rationale for his conclusion.

Some companies have also found that expert systems can serve a valuable role in inventory control, and in planning functions.

"Humans are fallible. We don't always take all the factors into account. We can forget. We can have a bad day," said Moja. "That doesn't mean machines will replace the human expert. But they can certainly serve as an aid to the human expert."

How will "expert systems" be employed by the space program?

"Right now, there are three principle areas that we're looking at," said NASA's Carl

Delaune, a member of the working group.

One of the most promising, he explained, is development of "an engineer's advisor" in troubleshooting problems which might come up during the loss of a liquid oxygen tank in the Shuttle's external fuel tank.

"Discrepancies in any of several hundred measurements of critical parameters can lead to an automatic shutdown of the transfer, and possibly a costly launch delay, unless it is overridden by highly experienced controllers," said Delaune.

Such an override decision by the system experts is based on a detailed analysis of measurements, and it requires knowledge of system hardware and data from previous launches.

"The goal of the artificial intelligence project at KSC is to capture the expertise of the launch team," he explained. A computer system which is able to use that expert knowledge can potentially free up some of the human experts for other activities. It could also be used to help train new launch engineers.

Another area to be examined by the working group is in the field of logistics. "The planning and scheduling operation that goes on in the cargo world seems to be a good candidate," said Delaune.

The KSC working group is also exploring the possibility that an expert system can be developed to provide reliable 12-hour weather forecasts for the vicinity.

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# Firm introduces university without classrooms

San Francisco, CA (CPS)—A private, San Francisco-based telecommunications firm has just launched the nation's first "electronic university," which is already offering over 170 non-credit courses by personal computer.

"We're working with universities, with home study people and with corporations who promote video home study programs," explains Tom White, president of TeleLearning Systems, which began the network in mid-September.

Students with personal computers would log onto the network and link up with TeleLearning's host computer here.

"You can register electronically and charge your tuition on a credit card, and you're basically ready to start the course," White says.

"We then transmit a digitized photo of your instructor, along with outline materials for the

course and lecture notes for the first class."

At the moment, TeleLearning is offering courses ranging from anatomy and law to "self-improvement" courses like assertiveness training.

White says if anyone needs to take the courses are an Apple, IBM, or Commodore personal computer and a modem which will connect the machines to TeleLearning's host computer by phone.

But, he adds, a disk drive and printer are also helpful for students to store class information and bring out their work.

Students can ask questions and communicate with the course instructors by leaving "electronic mail" for them in the host computer. The instructors would later collect the messages, and reply during the next class period.

At each class's end, "you

have an electronic workbook that you go over, and the computer then grades your work, and gives you feedback which your instructor never sees," White adds.

"There's a lot less pressure on you that way," he claims, "and it gives you time to improve areas you're having trouble in."

Periodically, however, real tests do appear on the screen, and are then returned to the instructor for grading.

Most of TeleLearning's 200-some instructors are university and college professors who teach their electronic courses as either alternatives or supplements

to their regular classes.

In addition, several telecourses are taught live at a particular time each day by instructors sitting at their own computers, available to communicate directly and instantaneously with students.

Course fees run "about \$15, including textbook and instructor interaction," White reports.

Education Secretary Terrel Bell has endorsed the new computer university as a tool which will allow students across the country to "attain a high level of literacy and attain competency in math, science and the use of language."

## Northrop receives aerial contract

LOS ANGELES—Nov. 3, 1983—Northrop Corporation has been awarded a \$27 million U.S. Navy contract for continued production of the BQM-74C aerial target aircraft, one of the most advanced aerial targets available in the world.

Under the contract, Northrop's Ventura Division, Newbury Park, Calif., will produce 200 BQM-74Cs along with 70 air-launch kits and associated hardware. Deliveries are scheduled to begin early next year.

The BQM-74C is used by the U.S. Navy as anti-ship cruise missile simulators and in the training of anti-aircraft missile and gunnery crews. It is recoverable by parachute and can be launched from the air, from decks of ships and from the ground.

The BQM-74C incorporates a number of major improvements over earlier targets, including a Northrop-developed Digital Avionics Processor (DAP), a small digital computer capable of automatically controlling flight as well as simplifying checkout and maintenance tasks.

The turbojet-powered BQM-74C flies at speeds up to 535 miles-per-hour and at altitudes up to 40,000 feet. It recently was flown at an altitude of 30 feet while simulating cruise missile flight profiles over the Pacific Missile Test Range, off the southern California coast.

Northrop is a world leader in the production of unmanned aerial targets and remotely piloted vehicles. More than 78,000 have been delivered during the past 44 years.

\*\*\*\*\*

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## notices

### Female job opportunity

A market research company has contacted Prof. Corcoran to provide FEMALE students an opportunity to work Nov. 10, 11, and 12 handing out coupons in the Daytona Beach area from 9:00 am - 3 pm at the rate of \$35.00 per day. Contact Professor Corcoran if you can work any or all these days. Openings for 22 girls only.

### Ph.D. offered in biochemistry

The Graduate Program in Biochemistry at the University of Alabama in Birmingham invites applications from highly qualified students interested in a Ph.D. program. Major areas of emphasis include fundamental molecular biology, biochemistry of nucleic acids, recombinant-DNA techniques, physical biochemistry, biochemistry of connective tissues, enzymology, X-ray crystallography and NMR spectroscopy. All students admitted to the program receive fellowships of \$7,500 per year, plus tuition and fees. Interested students should contact Dr. Charles E. Bugg, Chairman of the Admissions Committee, Department of Biochemistry, University of Alabama in Birmingham, Alabama 35294.

### Spring '84 grads

We suggest that you fill out your Graduation Application for a PRELIMINARY GRADUATION EVALUATION. We will try to process as many as possible prior to the "ADVANCED REGISTRATION" for Spring '84.

### Spring class schedule changes

Please note the following changes/corrections to the schedule of courses for the Spring 1984 trimester:

AS103.1 MWF  
MA443.01 1630-1725  
HU2211.21 add-MWF 1130-1225  
MA242.05 MWRF  
HU305.01 TR  
EC211.01 MWF 1330-1425  
EC310.01 MWF 1430-1525  
MS210.06 MW 1630-1755  
CS372.02 FOR AVIONICS STUDENTS ONLY  
CS372 Coreq-CS220  
EC210 and EC211 no prereqs required for these courses  
MS390 prereq - MS105  
All MY courses now changed to MY102, MY202, MY302, and MY402 (from ending in 1)  
MY402.01 MWF 0830-0925  
HU250.04 on RESERVE  
HU250.25 add - TR 0730-0825

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# Student financial aid will be easier to obtain

(CPS) - After three years of watching aid programs being cut, gutted, threatened and frozen, more students are applying for aid this fall, aid officials across the country report.

Moreover, the students are having a relatively easy time in getting the aid, they add.

Thanks largely to education's new status as a hot political issue, they say, the Reagan administration and Congress not only have spared many of the programs that were on the chopping block as recently as last spring, but have eased some of the confusion - the seemingly arbitrary changing of eligibility requirements, the late processing of aid applications, the uncertainty over how long certain programs might last - that convinced many students not to apply for aid since 1981.

"There's an awful lot of fanfare over education right now, and we are entering a campaign year," explains Dallas Martin, director of the National Association of Student Financial Aid Administrators (NASFAA) in Washington, D.C.

"This year, so far, is going fairly smoothly," he observes. "Things are much more stabilized and predictable. It's a much, much better environment than we had a couple of years ago."

Aid officials warn there's still potential trouble in the uncertainty over the new draft-aid law, which requires all male students born between 1960 and 1965 to certify they've registered for the draft in order to get federal aid.

From the U.S. Department of

Education implemented the law last spring, a Minnesota judge first temporarily and then permanently ordered the government to stop making military registration a prerequisite for student aid. He argued the prerequisite violated students' First Amendment rights.

But over the summer, the U.S. Supreme Court overturned the ruling. It said the law should be implemented at least until the full Supreme Court gets a chance to review it.

The Education Department, which is responsible for making sure colleges apply the law, then

kept changing the deadline by which schools had to start requiring students to comply with the law.

At present, the requirement is scheduled to go into full effect on October 1st, 1983, says Education Department spokesman Duncan Helmrich.

"Things were going great until the injunction (against implementing the law) was lifted," says Robert Misenko, student aid director at the University of Minnesota. "All the different grace periods and compliance dates - beginning with July 1 - complicated things."

# College degrees qualify as investment

MADISON, WI (CPS) - College degrees are worth much more than most people think, a new study by two University of Wisconsin economists asserts.

"The actual return on investment is probably 150 percent greater than the standard estimate," says Robert Haveman, who co-authored the study of the economic effects of a college education with Wisconsin colleague Barbara Wolfe.

By contrast, the Heritage Foundation - a conservative think tank with ties to the Reagan administration - recently called for the federal government to stop supporting public education because it costs more than it generates in additional revenues for the American economy.

But a recent study by the U.S. Census Bureau found that college graduates earn about 40 percent more over a lifetime than non-grads.

Haveman and Wolfe say degrees may be worth even more than that when they figure in the additional values of using what people learn in college in their post-graduate lives.

"Additional education is directly related to better health, the success of (the graduate's)

children is school, and a number of other benefits that have not traditionally been counted as part of the value of education," Haveman says.

Better health, for instance, is worth an additional \$3000 a year to college grads, he found. Their kids' better academic per-

formance is worth about \$2000. By being smarter consumers, grads save about \$100 a year, Haveman and Wolfe contend.

They also calculated values for better family planning, greater involvement in community and charitable causes, and less likelihood of criminal

behavior among educated people.

"If people were given an additional year of schooling," Haveman adds, "they would be willing to pay thousands of dollars for the non-earnings benefits of that extra year if those benefits were for sale."

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# Students today pay back loans

WASHINGTON, D.C.

(CPS) - Students are repaying their National Direct Student Loans (NDSLs) at a faster rate than in past years, the U.S. Department of Education reports.

In checking the records of loan repayments at some 3382 colleges, the department found the default rate on NDSLs - a program President Reagan wanted to abolish in 1981 and 1982 in part because so many students weren't repaying their loans - fell from 15.4 percent in

1981 to 10.5 percent of the total amount loaned out by the government under the program.

Part of the reason for the decline, however, may be the new ways of accounting for defaults, says Florence Taylor, the department's aid collection chief.

Colleges, which have been responsible for collecting past-due loans, can now turn over collections responsibility to the federal government. When they are turned over, Taylor says, the government no longer

counts the loan as in default.

Still, "getting students to pay back their loans is like getting blood from a turnip for some of these schools," she says.

Taylor adds more schools are becoming more aggressive in chasing down student deadbeats because of the government's new rule cutting off NDSL funds to schools with high default rates.

About 380 colleges lost all or part of their NDSL funds last spring because of high default rates on their campuses.

# English honor society to sponsor cruise

By Scott Cooper

Sigma Tau Delta, the National English Honor Society, is a relatively young, though steadily growing, organization on campus. We are expanding our horizons this year to incorporate new ideas and events into our curriculum.

In the past, we have organized the "Humanities vs. Students" softball game held every trimester. The Humanities

staff has always come out in strong numbers against our varied, yet determined, S.T.D. team. However, our record against the Humanities faculty is not one to boast about; so we would rather keep our team's strategy and record a secret.

Presently, we are coordinating with the Management Club to plan a happy hour cruise on the Halifax River aboard the Dixie Queen on Fri-

day, November 11. You may bring whatever drinks you want (BYOB) with cups and ice supplied on board. Once underway, there will be beer and wine for sale along with sandwiches and snacks. A D.J. will be playing a variety of music, including top 40 hits, with plenty of room for dancing. The Queen will leave the dock at 5:30 pm (boarding at 5:00 pm), for a three hour cruise on the Halifax River and ocean side. Tickets are \$6 per person (you can't beat this price). Contact Scott Cooper by writing box 5593 or calling 756-2738 for tickets. There will also be a booth in the U.C. pub area selling tickets all this week. There are only 150 tickets available, so buy yours today! Don't miss out on the most enjoyable event of the trimester! Start your weekend off by joining the fun on board the Dixie Queen this Friday.

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# D and D brings adventure to college

The party of adventurers you have been traveling with has stumbled upon what appears to be the ruins of an old castle.

As you explore the ruins, you notice your companions doing the same. And so, the high priest of a god whose name you can't pronounce, Millicent of the arcane arts, who has saved your group more than once by her mystical powers; Kenneth the Bold, the mighty knight of the realm who now searches to put down the up-rising of the evil which now spreads over the land; and you, Norredga, just a fighting man along for riches and adventure. Nothing special about you, except for the finely engraved sword your father gave to you on his deathbed. It has got to fall to you in battle.

As you play Dungeons and Dragons, this is what might be happening to you. Of course, you can choose to "live" as a number of different races besides human, choose your own profession and you can be good, evil or neutral in nature.

D&D has been around college campuses for a number of years and so far, it is showing no signs of decreasing in popularity.

It is basically a fantasy roleplaying game set in a time where swords and magic

abound, along with your imagination. You assume the characteristics of somebody in this world, and live this person life through your own personality. Dice rolls determine how strong, smart, wise, or intelligent (and a number of other qualities) you will be. With little numbers you then determine what role you want to be, what profession you can be, and whether you view life as good, evil or neutral.

If you have ever played the game or even sat in on one, you know that there is one person who refers the game. He is called the Dungeon Master, or DM. He sets up where you are, the surrounding environment, and the like. He is everybody else in the world in which you come into contact with, both people and monsters. He informs you on what you see and what you don't. What you hear, what you can do and not do, and all of the other pertinent details that make the world come "alive" for you.

D&D is a game where you can play your slice ago. Where you can let yourself go on the weekends to get out all your frustrations and tensions. Here you can let yourself do whatever you'd like to do without having

to worry about doing anything against the law, at least the law in the real world. But the law in D&D is whatever the DM says. According to the D&D Player's Handbook: "The referee is the final arbiter of all affairs of his or her campaign."

Just about any number of people can play at one time. Having to control a lot of people, however, may hinder the numbers slightly.

To anyone who has not played the game - or at least sat and listened to it being played - observing a game for the first time may be a little confusing, to say the least. It will appear that the people who are playing the game have lost their minds. Swords, magic, monsters and treasure are what is being talked about by the players and the DM. The non-playing person will also notice a lot of different sizes and shapes of dice, a lot of paper, and quite a few books that are the main instruments for the playing of this game.

D&D can be played almost anywhere: a dorm room, a fraternity house, an apartment, or even in the back room of a shop.

How can you get started?

Most bookstores or hobby shops keep track of people who play the game and can get you in touch with them. Sometimes notes are placed on bulletin boards or in newspapers to help interested people get together and play.

If you watch a game being played, it appears as if a group of people circled around one person (the DM). You notice them talking a lot, see a lot of writing on paper, notes being

passed to the DM on movements and actions of players who don't wish for everybody else to know what is going on. After a while there may be screaming and yelling as the players try to tell the DM what they are doing at any given situation, or battle. Usually the DM controls this as much as possible, but he or she is not always successful, and as a result, the DM gets carried away and is also screaming and yelling

so as to be heard over all the din.

D&D is unlike a lot of games in that there is no real winner or loser. The main objective is to get rich, both in treasures and experience, by battling a variety of monsters and risking your character's "life" in any given situation. It's risk-taking, using your head, traveling through unknown territory, making that "good" dice roll, and ultimately seeing if you survived.

## Management Club plans cruise

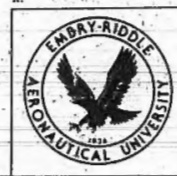
By Ray Casey

The booze cruise is looking good for this Friday. Don't delay, get your tickets today, for the most unique party of the fall. Six dollars gets you a 3 hour cruise up the Halifax river. Watch the sun set as the D.J. cranks out the jam. Bring your favorite beverage and party with us. The cruise is open to anyone so get your friends together and let's get crazy. Tickets are on sale in the UC pub area until Friday noon. So join us for happy hour on the Halifax.

We'd like to thank Peter Booker from Merrill Lynch for

Our next major event after the sunset cruise is the biggest dinner meeting ever. Paul Ignatius President of the ATA will address us at Treasure Island Inn Friday November 18. Don't miss this one! Remember to check the Management Club bulletin board frequently for upcoming events and new information lists there for you, so use it, and also read the Avion for the latest info.

giving us his advice on personal financial planning at our last business meeting. I hope everyone got something out of it.



## Ultralight

(continued from page 1)

tural testing, the manufacturers invert a plane and sandbag the wings to simulate 3.8 g's, then claim it is rated structurally safe to this limit.

The results of the research being done will be published by Mr. Kluger and Mr. Wade as their senior thesis paper for the course. They may also submit it for publication in some professional journals, such as the AIAA journal, so they can share their findings. Similarly, the Powered Ultralight Manufacturer's Association (PUMA) has requested a copy of their findings. This is a body of ultralight manufacturers which exchange ideas and information, but has no regulating authority.

It is hoped that any findings and recommendations will inspire ultralight manufacturers to organize themselves such that some guidelines will be made regulating these aircraft. This would be a much better outcome than waiting for the FAA to step in with their own regulations.

For the future, there is already an expressed interest to continue the ultralight research here at E-RAU. There are already plans by student Bill Klugbraut for another special topics course during the spring 1984 trimester to obtain more detailed data on perhaps the 3-D airfoil characteristics. The long term goals are for Penn State and E-RAU to get a consortium going so that detailed investigations and information exchanges may be carried out. This would lead to our schools becoming acknowledged in this area within the industry, and may result in our being able to obtain educational grants to expand on the research being done.

Look for future developments to be made and support the researching goals being undertaken, so that one day E-RAU may be known as an ultralight concentration of expertise throughout the world.

## Airplane

(continued from page 1)

some afternoon sections to force students to take morning sections. But for the moment, according to McDuffee, "Students are helping out by giving alternate schedules of time" so that they can take the courses.

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For Sale: 3" dual tube rear bumper, will fit Chevy/GMC 5/10/15; 2 wheel drive pickup. Has trailer hitch. Contact me after 5:00 p.m. on Tuesdays and Thursdays at 305-323-3732.

Radio control airplane for sale. Balsa U.S.A. vintage stick with Panab 6 ch. radio, with or without K&B .21 B/C engine. Asking \$190 W/O engine, \$340 with low engine. Please call contact. Sales at 987-2709 after 6:00 p.m. or box 789.

For Sale: Dehumidifier, slightly used, excellent condition, \$80-40 less offer. Good painting equip, laser box good pen, \$35 or best offer. Diamond engagement ring and wedding band w/ two small diamonds. Mens Wedding band. All rings white gold. Cost \$450 new, will sell for \$250. 4 1/2" call coverage retrofitted hot tub w/ all supplies, equipment and chemicals, \$2000 or best offer. 1981 1/2' Hobbs Cat trailer, excellent condition w/ trailer, \$2800 or best offer. Call Chuck at 356-4453 or ERAU box 1080.

For Sale: Four month old Albino Ferret. Very nice, must sell due to apartment. \$30. Radio Shack color TV antenna with splices for four TV's and cable and top foam used as apartment complex II. \$70 or b/c. Call 257-4558.

Free. Cassette tapes, "What the Bible says about demons." No mailing list or follow up. Also, catalogue of over 100 other completely free tapes. Drop a note in box 8071 with your box or address.

TI-99/4A 16K computer. Only six months old. Includes cassette interface and cable, manuals and two TI basic books. \$70 (original cost: \$110). Contact ERAU box 326.

For Sale: Brand new Sears Kenmore refrigerator, 2 1/2", only used one trimester. \$80. Call 257-7593.

For Sale: Diving equipment. Call 257-0212.

78" Sofa bed in excellent condition. Dark green in color, very comfortable, sliding \$100. Will negotiate. Drop a letter in mailbox 1-103 or telephone 252-1865 after 5 p.m.

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Garth Cruiser for sale! Beach bike, good condition, some rust, \$85 or B.O. Call 252-4811.

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Share V-15 type IV phono cartridge for sale. Never used - top of the line cartridge sells for \$200 in audio stores - I'm asking \$145. If interested - call Glenn at 258-6869 - nights.

For Sale: Sears X Cargo fiberglass lounge chair. Fits small to mid size auto. \$15. Also sleep 'n' sofa. 200. Yachtin movie camera, \$50. Old fireplace screen, \$4. Call Mike Miller at AFPROTC ext 1200/1291.

For Sale: Sears Free Spirit 3-speed women's bike with book rack. Excellent condition; includes chain with lock, fenders, and owner's manual. Call 258-3474.

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Lost - bright yellow jacket with bright green lining. Not waterproof. Lost in Chubbiqua or LARC on evening of 11/10/83. If found, or know of whereabouts, contact box 5514. Small reward is offered.

Lost: Male's high school class ring. Silver with blue stone and has name inside. Lost in LRC on 10/26/83. Contact Brian at 353-6593 or box 4111 for reward.

travel

Headed: A ride to Jacksonville airport Dec. 15, leaving here at 9:30-10:00. My plane leaves at 1:00. Contact Paul at box 5975.

Need ride to Augusta or Atlanta, Georgia for Thanksgiving break. Will share expenses. Contact Box 1233.

Would like a ride home for Christmas break. Live in western North Carolina. Will help pay expenses. Contact Jeff Holman at Box 1193 or Dorn L. riggin 354.

personals

John: People saw things as they had always seen them. There was another. Some say she was a bright eyed young lady. Others said she was beautiful. One man who... Someone said she could still be an angel. Another said she twirled. I couldn't have known her; I got there for her last twenty minutes. She had long blond hair. Would my time come to get off this carousel? Drop me alone when you can. Notice: BROOKER DATES/11/25/83/258

Tiger: Sorry about all the Chaos here. I'm glad to be in here and I'm sure it will be worth your effort. Always remember Flows you! Punky

Diana and Friends: Hello again! Are you straightening out the rumors up there? Marriage, twins, etc. I like the names Elizabeth Marie and Joshua Keith. Sound okay? Lovv-boy Greg says he can't wait to meet you all. Julie - only a few more days and I'm all yours for a night. Diana if you have pictures then you can show the other World. Get ready for the wedding Diana - Bridget's. Love you. PS. I have boys' eyes. Ron

To the Girls of the U.C., the Dean and the secretaries: The slipper sends his regards. "The Kid"

Gary M: When's my Spaghetti Port? Guess Who

Nights solo: It's a special one. Happy B-day. Water Buffalo

IT'S GOOD TO GAD!! Party with the Phoenix...go first class in coach (again)...stay in the best hotel in Chicago...win contests...negotiate with the hotel over cottage fees...hand out business cards...be charismatic...party in the Monarch suite...take on solid cargo before intensive high altitude refueling ops...write BA&NAV tips for unfamiliar airport traffic areas...drink champagne in the Hyatt Lobby...meet Jimmy the Greek, Tony LaRussa and Hank Stram...Joey Drew Frost's last observation...hold liquor dinner without layout...get an unintentional good night's sleep...drink high-octane Yohoo...scan a sign for your office door...be reunited with former staff members...be incognito...scan booze prices...have 8 cases in your backpack...set party programs as per SOP...scan with the Eastern

Rep...live a DC-9 to yourself...love the B-757 cockpit...jet set...return to Daytona in first class...Be The KING! The most convenient... the drink spliter... Cocktails of the East Coast... So you don't believe what I've been telling you? Well that's ok, after a flight out at Charmingville's with the gang you'll believe everything... See you here baby! love, Roger Joe

Mercu... Thanks for all the support. I couldn't have made it without you... the drink spliter... Cocktails of the East Coast... So you don't believe what I've been telling you? Well that's ok, after a flight out at Charmingville's with the gang you'll believe everything... See you here baby! love, Roger Joe

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French Club Meeting Friday, November 11 Time and Room Will Be Posted Be There!

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