

12-6-1989

## Avion 1989-12-06

Embry-Riddle Aeronautical University

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# CMN

An Award-Winning Newspaper by Students for Students

Volume 63, Issue 12

Embry-Riddle Aeronautical University, Daytona Beach, Florida

December 6, 1989

## Campus News



Thomas Murphy performed the year's last attitude adjustment last Friday. The comedian drew a large crowd. **Page 4**

## Space Technology



The LDEF is to be retrieved in Columbia's upcoming mission. The mission will also place a satellite in orbit. **Page 13**

## Aeronautica



Gulfstream IV adds new speed record to its list of influential achievements. Its uses also include evacuation and patrol. **Page 17**

## Diversions



Life in Hell creator Matt Groening expands to television primetime with a new series featuring the Simpsons. **Page 23**

## Sports



Embry-Riddle's Lacrosse Team is currently tied for first in its league. The team defeated UNF last week. **Page 9**

## Clubs



Air Force ROTC students prepare this week for Weighted POC Selection System (WPSS) exam. **Page 7**

## AFROTC accused of hazing

by Joe Cambron  
Diversions Editor

Last week, editors of the *Avion* received a letter from a student who witnessed a possible hazing on the Embry-Riddle campus. The student, Bill Anikin, an AMT major who is an Air Force veteran, was watching ROTC cadets practice for a "Pass-in-Review" on November 21 when the alleged incident occurred.

At about 4:45 p.m., amongst a group of between one-hundred and one-hundred fifty Air Force Detachment 127 cadets, a single ROTC cadet was spotted by Mr. Anikin. He described the scene as follows:

"As I watched the activities on the field, I noticed four cadets running across the field from the Flight Center parking lot toward the AMT building. Two of the cadets were male, and two were female... One of the girls was carrying a video camcorder and intended to videotape what was about to happen. All four were yelling and cheering. The two male cadets were carrying on their shoulders a squirming captive, whose arms and legs were bound with rope. His haircut suggested that he was also a cadet. He was screaming, 'I'll kill you! I'll kill you all!' He was wearing pink lingerie... The rest of his apparel was limited to a pair of white briefs and a black bikini bottom pulled over them, and a pair of tan pants pulled his head..."

see HAZE, page 20

## SGA plays Angel for a day

Needy children receive special Christmas

by Tina Matilla  
Copy Editor

Twelve children who expected to have very little or nothing under their trees this Christmas will be receiving gifts from Embry-Riddle's Student Government Association. Last Thursday, as part of the SGA's community project, Alma Rodriguez, Aircraft Maintenance Technology Representative, and Linda Johnstone, SGA Secretary/Treasurer, picked 12 angels from the Volusia Avenue McDonald's Pick-An-Angel display. Each of the children whose names appeared on the back of the red and white angel cards will receive a gift bought by the SGA.

The Pick-An-Angel program, sponsored by Volusia County Health and Rehabilitation Services and held at various McDonald's restaurants, places the names of children who come from underprivileged homes, on ornamental cards. Along with the child's name is his/her age and a three itemed "wish list." Anyone who wants to is welcome to come and select any of the children from the garland and buy any of the gifts asked for by the children.

The children Ms. Rodriguez and Ms. Johnstone selected ranged from age 4 to thirteen, but they all had one thing in common: each child wanted a bicycle. All told, the SGA will spend \$800 on the project. The \$800 will buy eleven children's bicycles. The twelfth child, a four year old, will receive a tricycle.

It had taken the SGA a long time to decide how to spend the money, which is part of the Student Representative Board.

see ANGEL, page 20



photo by Bill Clark

### Send me an Angel...

Alma Rodriguez, SGA Representative Chairman for the Pick-an-Angel project, and Linda Johnstone, SGA Secretary/Treasurer, select ornamental cards from a display at the Volusia Avenue McDonald's. Attached to each card is a child's name and their "wish list."

## Space Shuttle blasts off

by Derrick Seys  
Space Technology Editor

Discovery and its five person crew climbed into Florida's night sky on November 22 illuminating most of the southern Atlantic Coast.

Discovery made its spectacular lift off at 7:23pm after what appeared to be a relatively uneventful countdown. The actual time of lift off was not revealed to the public until the T-9 minute hold was passed. How the count progressed up to this point could not be determined; however, a systems failure appeared after the clock started to count down. This made controllers schedule a hold period to begin at T-5 minutes to determine the severity of the problem. This hold lasted for just over two minutes when it was decided no problem existed.

From this point on the count went uninterrupted until the main engines were ignited followed by the thundering of the Solid Rocket Boosters. The seven million pounds of thrust produced light that could be seen from Cuba to North Carolina.



photo by Jim

### Up, up, and away...

Discovery illuminated the dark Florida skies before Thanksgiving. The launch was assumed to deploy a satellite to monitor Soviet and Chinese communications.

The public was informed of a scheduled four hour launch period, 6:30-10:30pm, in an attempt to foil anyone trying to gain information on the Department of Defense satellite.

see SHUTTLE, page 20

## Volunteers bring life to blood drive

by Tina Matilla  
Copy Editor

Volunteers and nurses from the American Red Cross banded together with members of Sigma Chi Fraternity to collect much needed blood from the students of Embry-Riddle during the Red Cross' last blood drive. Last Thursday and Friday, members from both organizations could be found in the conference room of the John Paul Riddle Student Center lobby coordinating donors and attempting to make the procedure more comfortable.

Overall, the students of ERAU donated over 220 pints of blood, donating 115 pints on Thursday and 105 pints on Friday. The blood from the drive went to the Red Cross Blood Center. Only 56 days ago, the American Red Cross, also with the help of Sigma Chi, collected 241 pints of blood in another of their many blood drives held here on campus each semester.

Since 1969, 20 years ago, the American Red Cross has been working with Sigma Chi to coor-

see BLOOD, page 20

## Naval Aviation Club brings F-18 to ERAU

by Brian Cerni  
Campus News Reporter

Students were offered a glimpse of what's to come in the annual spring airshow a few weeks ago as the Naval Aviation Club sponsored a static display of a U.S. Navy F/A 18-C Hornet.

Piloted by Embry Riddle alumnus Lt. Marlon "Brando" Sundh of Strike Fighter Squadron VFA-83 located at NAS Cecil Field in Jacksonville, the high performance aircraft drew over 1000 curious spectators to the flight line for a rare close-up look at one of the more popular articles in the U.S. military's arsenal.

After a few high speed fly-bys, the aircraft taxied to a halt at about 2:30 P.M., and Lt. Sundh spent the rest of the afternoon answering questions formulated by the inquisitive crowd.

Lt. Sundh then appeared at the Naval Aviation Club meeting to discuss his young career as a fighter pilot and his ascent to one of the most sought after jobs in aviation.

As a graduate of the Embry Rid-

die Proscott campus, Lt. Sundh's military career actually started out in the Marine Corp. as a member of the PLC program. Sundh then decided to switch to the Navy because of the greater number of pilot slots offered. He said that Aviation Officer Candidate School (AOCS) was waived in his case because of the compatible Marine Corp. training he received.

When asked what it takes to become an F/A 18 pilot, Sundh said, "You've got to be the best at what you do," referring to the flight training that pilot candidates go through at Pensacola. Sundh graduated at the top of his flight school class.

After the meeting, Sundh showed off the impressive takeoff capabilities of the aircraft, illuminating the night sky, as he departed for Jacksonville with afterburners lit.

The F/A 18 Hornet, built by McDonnell Douglas, is a low cost, lightweight multi-mission fighter and attack aircraft, capable of carrying both air-to-air and air-to-

see F-18, page 20



photo by Ron Roberts

### Static...

The Naval Aviation Club recently sponsored a static display of a Navy F/A-18 at the Flight Line. Fully armed, this F/A-18 carries two Sidewinders, two Sparrows, 570 rounds of 20 mm cannon ammunition and four tons of bombs.



Editorial

The best of times

The best of times. This simple phrase can be seen in papers, yearbooks, movies, and even in song lyrics. Now it's in print in the Avion newspaper. Why put such a cliché on an award-winning publication? The answer is simple. This semester has definitely been the best of times for many of us this year at Embry-Riddle Aeronautical University.

The one thing, perhaps, that has changed for the better is school spirit. Embry-Riddle has seen the formation of a Cheerleading Squad and the students body itself has been extremely supportive. A positive change in attitude is evident and it seems like the trend will continue. People are proud of this school and apathy seems to be finding its way out the back door.

The development of our varsity sports program is also an encouraging and much needed aspect to our University. Those involved with the sport scene (players, coaches, spectators) represent the undying spirit of ERAU and are to be commended.

The students who have come in the past few years are also the driving force behind this school spirit. The students are young, spirited, lively. They carry with them a dedicated spirit ... dedicated to aviation and aerospace and dedicated to Embry-Riddle.

Clubs, organizations, SGA divisions and the Greeks are involved with the "best of times". Their contribution to the Embry-Riddle community and the Daytona Beach community is beyond comprehension. They get the student body together in a common bond and perform services that are many times unselfish and admirable.

The best of times can also be associated with the construction on campus. The campus has definitely begun to look like a University. No longer is there evidence of a runway going down the center nor is there an abundance of concrete. Grass and shrubbery are making things pleasant and are making it more inviting for students to remain on campus.

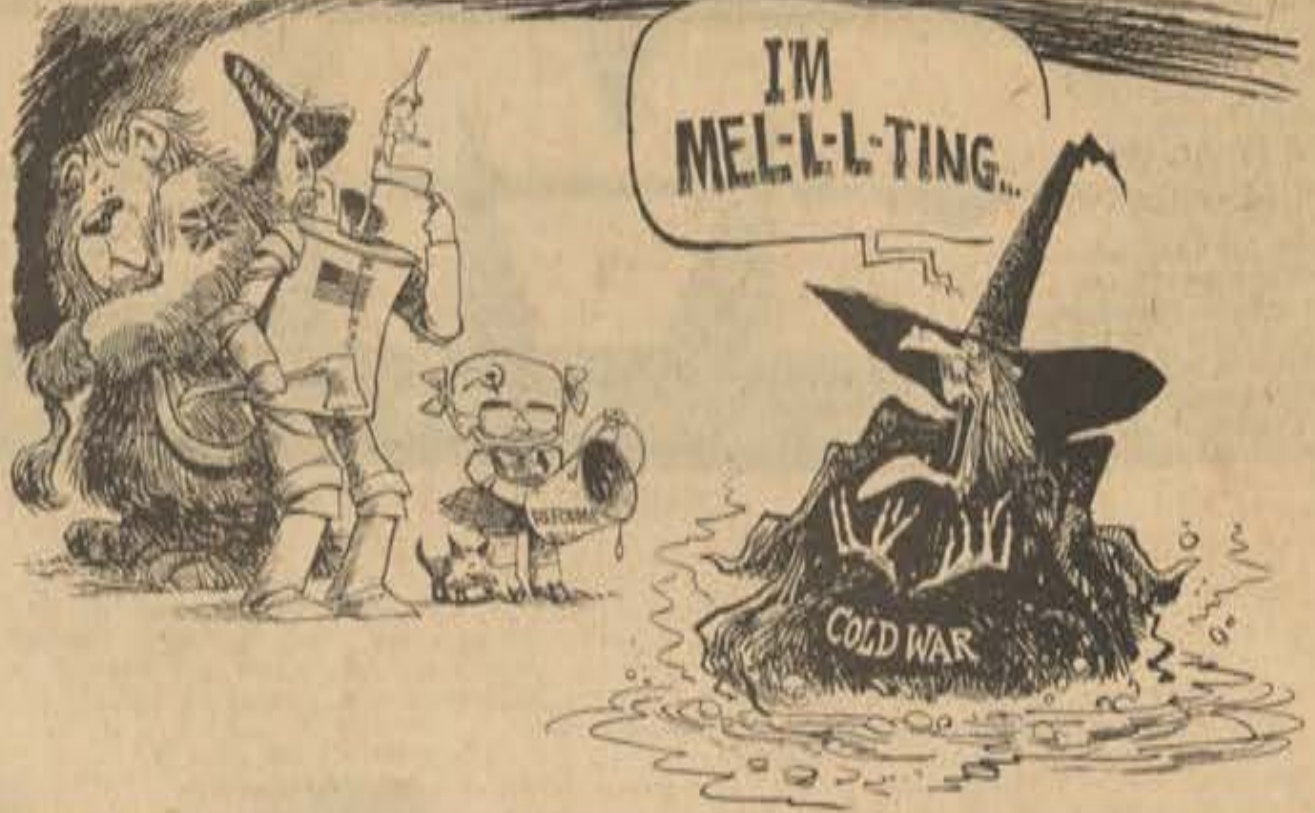
The Avion, too, is experiencing the best of times. A relatively new staff has taken over the newspaper office by storm. All are trained or being trained and this benefits the entire student body. Evidence of this can be seen in this issue of the newspaper - one of the biggest and best in the history of the publication. Campus stories, concise news and extensive coverage of aviation and aerospace all benefit you, a loyal and dedicated readership.

However, let us not pat our backs on these achievements. The best of times need to continue and not remain stagnant. Problems are rampant at this University and students need to continue to voice their opinion to get these problems ironed out.

Ah, yes, these were the best of times and they need to continue. There's something mysterious happening here something almost magical. Maybe, it's the season. Maybe, it's the people.

The Avion wishes the best of times to all students, faculty, staff and administration of ERAU.

Merry Christmas and Happy New Year!



Letters to the Editor

Scholarships

To the Editor,

Scholarships. Should there be athletic scholarships given at Embry-Riddle Aeronautical University? Are you kidding? Like many students here, I work all summer as well as while I am attending classes. Needless to say, for many of us money is very limited. As some of you may know, I am all for school spirit. I am proud of Embry-Riddle. However, scholarships are not the answer to school spirit. Picture this, one student works two jobs during the summer and one while here at school. This student is a very gifted pilot with good grades to match. However, during his senior year, the money simply runs out. Can he get a break? Nope, too bad! No finan-

cial aid. Later. At the same time, the scholarship athlete graduates with a 1.1 GPA and can barely get the plane off the ground. Why might the weaker of the two students graduate? Because he can hit the outside jumper.

Scholarships? Yes, for academic reasons. This is a specialized school, not just a place to play sports and get a degree on the side for free.

Glenn A. Gougler  
Box 5465

Instruction

To the Editor,

A major issue facing higher education today is the crowding out effect research has at larger institutions around the nation. It seems that Professors are being reviewed by

their research and publishing talents and not their ability to teach. Fortunately, at Embry-Riddle, we have not seen research grow into the beast it has grown to at some larger schools.

The faculty at ERAU are generally available to help students by offering office hours. It is the concept of office hours which makes education truly balanced. Anyone is welcome to speak one on one with their instructor. This is a valuable tool and it should be used more by undergraduate students here at ERAU.

At a recent convention on Student Services in Kissimmee, FL, sponsored by "National On Campus Report", the keynote speaker proposed the problem of research outweighing the educational process. He said, "Undergraduate students are referred to as the orphans of higher education (at institutions which put

research before teaching). He said that the problem is growing nationwide to the point of ridiculously large classes being taught by assistants of assistants of the instructor. The nation's trend hurts the educational experience of undergraduate students should be avoided at all costs.

Embry-Riddle should be commended by remaining steadfast in the pursuit of excellence in teaching, keep up the good work!

John Luke  
SGA Representative  
Box 7089

Human rights

To the Editor,

At the basis of all human rights is see LETTERS, page 20.

Student Forum

The Avion asks: Do you think that hazing of any kind should be allowed at any university?



David Clark



Brian G.



Jose Aponte



Ron Young



Renee LaRue



Derek Berquist

As far as this school is concerned, if there is going to be any hazing, the school would have to approve of any hazing procedure in the club of fraternal charter.

No, I think that it's a form of discrimination.

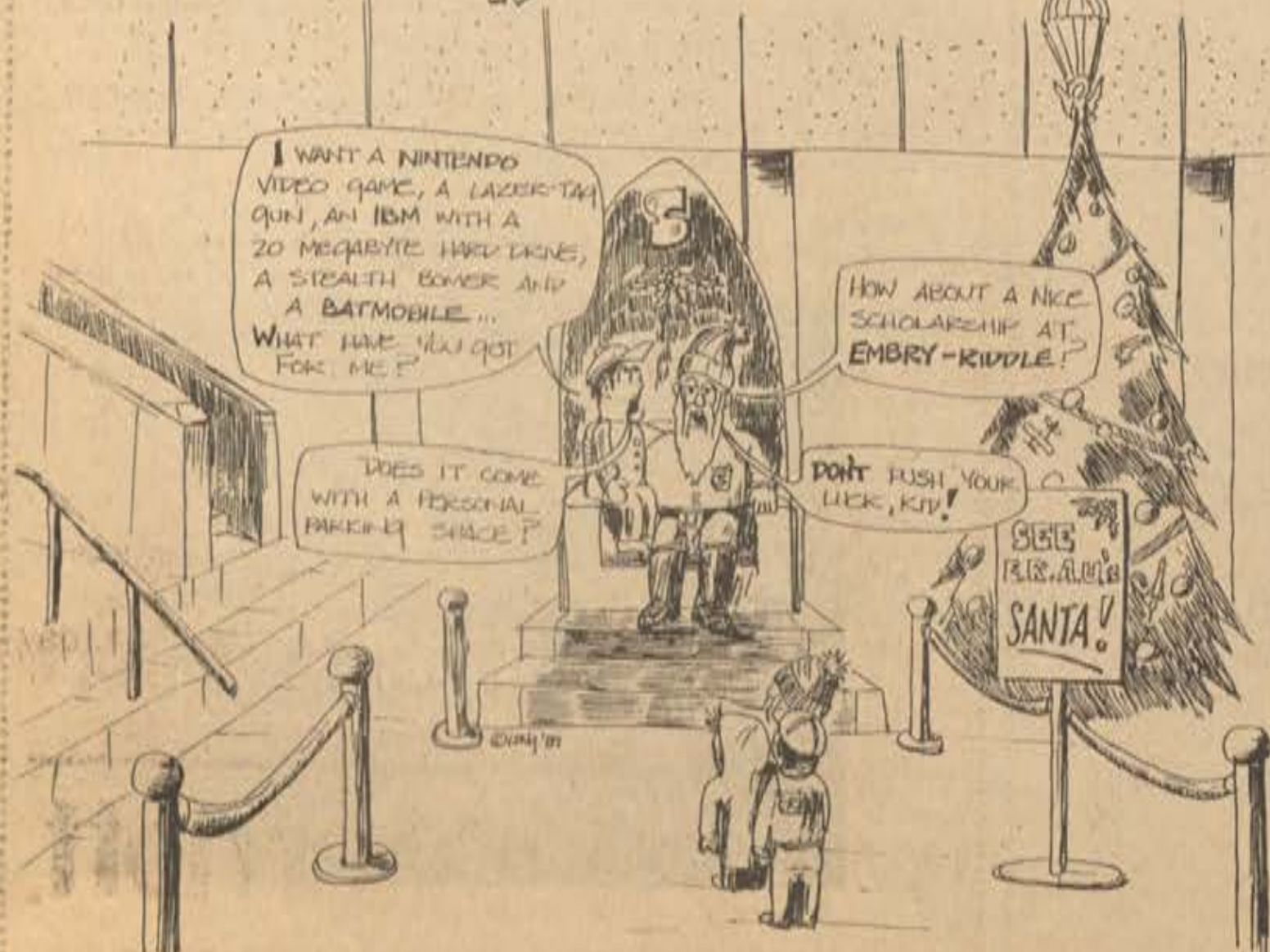
There's nothing wrong with it. It would help the person fit in to the club faster.

It'll happen whether it's legal or not. Most clubs shouldn't participate in severe hazing.

Nope.

An organization that discriminates against applicants should have evolved beyond that by now.

A "RIDDLE" CHRISTMAS...



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- Diversions Editor  
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**Associated Press**

**Rebel force fires on government troopers in Manila bloodbath**

MANILA, Philippines (AP) Rebel soldiers positioned in hotels and high-rises fired on government troops in the Makati financial district today, refusing to end a 4-day-old mutiny and trapping hundreds of people in homes and hotel rooms.

A rebel spokesman said the trapped foreigners would be freed Tuesday but he said this did not mean the mutineers were giving up their fight to oust President Corazon Aquino.

"We pledged our lives to this cause. We will hold the line to the last drop of our blood," said the spokesman, Capt. Alfred Yen.

Two bombs exploded in the city, injuring two people. It was unclear if they were related to the coup attempt, which began Friday and has killed at least 70 people.

Hundreds of Americans and other foreigners were pinned down in homes and hotels in the post Makati district, where forces loyal to Mrs. Aquino contained the mutineers to 22 buildings.

Rebels shot at anyone venturing outside. "Literally, we're in the middle," said Barbara Julich, a New York businesswoman trapped in the Intercontinental Hotel. "(We're) now low on food. There are babies in the building, and there is no baby food, and the mothers are hysterical."

"We saw were a group of nuns trying to walk where the tanks are. They were eventually shot at and took cover."

At least three people were reported slain in Makati today and 15 wounded, including one American, by rebel snipers and in fighting between rebel and loyalist forces.

Earlier, spokesmen for the Makati Medical Center said 10 people were killed. They said the discrepancy was due to an error in records.

Government troops forced the surrender of more than 600 rebels Sunday, and Defense Secretary Fidel Ramos said the coup attempt had been crushed but that it would take several days to complete "mopping up operations."

This is the sixth and most serious coup attempt against Mrs. Aquino. Insurgents seized Makati on Saturday, trading fire with government troops and sending bystanders fleeing for cover. Government forces appeared reluctant to attack for fear of killing foreigners.

U.S. Embassy spokesman Jerry Huchel said about 215 Americans were believed trapped in three hotels in the wealthy district. An undetermined number of others were believed trapped in luxury apartments.

Hospital sources identified the American wounded as Jerome Weissburg, who they said was hit in the arm by glass when a bullet shattered the window of his room at the Peninsula Hotel. They did not know his hometown.

Yen telephoned news organizations in Manila and said foreigners would be free to leave hotels at 10 a.m. Tuesday (9 p.m. EST Monday), to dispel any ideas they were held hostage.

The foreigners will be taken to Manila's airport aboard shuttle buses, Yen said.

At least 70 people have been killed and more than 500 wounded since mutineers seized several military installations and bombed the presidential palace Friday, according to the Red Cross.

U.S. F-4 Phantom jets flew air cover for counterattacking loyalist forces later that day.

On Sunday, loyalist troops fought off a furious attack by the rebels on the military headquarters at Camp Aguinaldo, and about 600 mutineers surrendered.

About 400 rebels were still occupying Mactan Air Base in Cebu, 350 miles south of Manila. Their leader refused to give up and threatened to blow up the base's planes.

Officials arrested one coup participant who approached the defense chief with a grenade during a news conference.

Also today, an explosion occurred in the compound of the Central Bank, the equivalent of the Federal Reserve. There were no injuries.

A second bomb went off in the Ermita entertainment district, damaging an unoccupied minibus and shattering windows. Two women were injured by flying glass.

In Manila, guards arrested an army sergeant who tried to bomb a news conference held by Ramos and military chief Gen. Renato De Villa, an official said today. Sgt. Romy Aquino (no relation to the president) was moving toward the officials with a grenade when arrested Sunday afternoon, said Brig. Gen. Oscar Florendo, chief of the military's Civil Relations Service.

**Senators praise Bush/Gorbachev summit talks but offer caution**

WASHINGTON (AP) - Senate leaders are pledging support for liberalized trade with the Soviet Union in response to the Malta summit, but some members urge caution against speeded-up arms control talks.

Senate Armed Services Committee Chairman Sen. Sam Nunn, D-Ga., called the weekend meeting a "successful and constructive summit" but warned of pressure that it might exert on ongoing weapons-reduction negotiations.

"There's nothing wrong with the leaders giving a push to the arms control negotiators, but there would be danger here if we pushed them so hard and so fast that we get a bad agreement, rather than one that will stand the test of time," Nunn said on CBS-TV's "Face the Nation."

President Bush and Soviet leader Mikhail S. Gorbachev ended their two-day summit on Sunday, hailing a new era of East-West peace. Both leaders said they would meet again in June in the United States with the possibility of agreements in 1990 to cut long-range nuclear weapons and conventional forces as well as progress toward a chemical weapons ban.

Nunn proposed that the superpower leaders set up teams to discuss long-range cutbacks beyond agreements currently being negotiated.

"Conceptual discussions now should not have to wait the details," Nunn said, adding, "But neither should we start negotiating new things which would even further delay the existing negotiations."

Senate Republican leader Bob Dole of Kansas also expressed concern that Bush and Gorbachev might be putting too much pressure on arms control negotiators to reach agreements.

**Continental delays Love Field flight**

DALLAS (AP) - Continental Airlines has decided not to sign a lease with the city that would have allowed it to begin flying out of Dallas' Love Field in December.

Continental said it wanted to wait until the city could install two permanent gates at the field. The city had proposed temporary gates until asbestos could be removed and the roof above two other gates could be fixed.

Continental spokesman David Messing said the airline decided it would be too expensive to move into temporary space and then move again in six months to the permanent gates.

Southwest Airlines is the only commercial airline using Love Field now. Continental sued and won the right to begin using the field for flights to Houston.

Love Field is closer to downtown Dallas than Dallas-Fort Worth International Airport, but flights from the field are limited to Texas and four surrounding states, under the federal Wright Amendment.

Continental was to begin flying out of Love Field to Houston Intercontinental Dec. 15.

City Council member Lori Palmer said she suspects Continental is not serious about beginning service at Love Field until the Wright Amendment is repealed. "Unfortunately, our staff devoted a lot of time to developing the lease agreement, and I don't think Continental negotiated in good faith," she said.

**Career Corner**

**A Christmas wish list**

January brings Career Day, and many interview opportunities for students throughout the Spring semester, so be sure you return to school prepared with appropriate clothing. Those who do not already have a suit may want to include it on their Christmas wish list. Following are some tips from the career Center on dressing for a successful interview.

*For men:*

**The suit**

A conservative, grey or navy single-breasted suit. The lapel should extend halfway between the shoulder and the collar. Natural fibers, such as wool, are best, even if they are blended with synthetics.

**The shirt**

A plain white, long-sleeved shirt is best. The cuffs should extend 0.5 inches past the jacket sleeves. A 100% blend of natural fibers is recommended.

**The tie**

Maroon is a good color. When in doubt about the pattern, a solid is always appropriate. Know how to tie a tie properly... the four in-hand and the windsor are best. It should be pulled up all the way.

**The shoes**

Lace-up shoes in black or maroon are best. Pick a high quality shoe made from leather.

**The accessories**

Socks should be dark colors: blue, black or grey to match, and should be extended halfway up the calf. Belts should be simple, with a small, elegant buckle. Jewelry should be limited to cuff links, watch, collar bar. Leave excess jewelry at home.

*For women:*

**The suit**

Follow the same basic guidelines as men, but shades of brown are also appropriate in women's suits, as are lighter blues. Skirts should be of classic design (straight, A-line, or pleated, and the hemline should fall just below the knee).

**The blouse**

Long sleeves are preferred, and solid colors are the most versatile. High quality polyester is acceptable as a suitable substitute for silk.

**The dress**

Colors are more versatile in a dress, and patterns are fine, but care must be taken that the dress is not too sporty or too dressy. A tailored business-like look is best.

**Shoes and handbag**

The two should match. Black, navy, wine, taupe, or brown are all acceptable colors.

**The accessories**

Limit jewelry to a watch, small earrings, and no more than two rings. Scarves may be used to soften a suit, and coordinate the suit and blouse colors. Avoid using perfume.

Keep these tips in mind when you dress for any interview. Look out for flashy clothes. Dress conservatively. Take the time to plan out what you are going to wear, and invest in quality clothing, and you will be sure to project the well-polished successful image that will help you land the job!

**MEGA MOVIES.**

THE CRITICS CHOICE

**FREE**

MEMBERSHIP  
POPCORN  
MONTHLY MAGAZINE  
MOVIE ON B-DAY  
MOVIE WITH TEN  
RENTALS

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3



**WAVES  
BEACH  
BAR**

Waves Christmas party Dec. 23.

Win a ski trip to Vail Colorado

Register nightly in Waves lounge in hopes of winning a 4 day/3 night ski trip to Vail. Travel via Continental Airlines and stay at the luxurious Marriot Mark Resort.

-Second Prize-

A weekend at the Daytona beach Marriot with dinner for two in Coquinos and a \$20.00 bar tab in Waves.

-Third Prize-

A six month membership in the Boardwalk Beach Club. The more you come in, the better your chances of winning!

Drawing to be held December 23, 1989

Tuesday: "South of the Border" night

Free taco bar

\$1.50 margarita's, \$1.00 Mexican Beers, \$1.00 Tequilla Shooters

Wednesday: LADIES NIGHT- \$1.00 drinks, Men's and Women's Fashion Show featuring Daytona's Hottest models.

Thursday: Go Bonkers with Live Comedians from Dangerfield's in New York.

Show starts at 9:00 p.m.

Post Show Drinks \$1.50 'till close

Friday: Hungry Hour is back!

\$2.00 all you can eat/ \$1.00 drinks

5:30-8:00 p.m.

Fri. & Sat.: Live Entertainment at 10:00 p.m. from the "Sweat Band"

DECEMBER 15th- Embry Riddle Students Happy Hour till 5:30 p.m. 1/2 price Hungry Hour w/school I.D.

Open 7:00 pm Tuesday - Saturday



DAYTONA BEACH **Marriott**

100 North Atlantic Avenue, Daytona Beach, Florida 32018 (904) 254-8200



Commentary

1989 at ERAU revisited

by Greg Naccarato

The Christmas Season is upon us as we are wrapping up another semester here at Embry-Riddle and another year filled with challenges, sorrows, and joys. When we return from the break the decade of the 1980's will have passed into memory and the history books. Though the '90s promise to be exciting as the world looks ahead into the next century.

Fall semester of 1989 provided us students with events like the opening of Morrisons Cafeteria, because the food from Epicure was of substandard quality. During the summer Morrisons renovated the eating, cooking and serving areas of the U.C., thus establishing a better atmosphere for the students.

Homecoming brought alumnae home to their alma mater and REO Speedwagon to perform for the grand finale. The Eagles basketball team played Nova University and even though we lost the game, our basketball team is real and improving under the direction of Coach Ridder. Cheerleaders also made their debut this semester to lead the school's spirit against other institutions in athletic competition.

Of significance to our 60 year heritage, the U.C. was re-dedicated the John P. Riddle Student Center. We as students will never forget the vision of an "Air University" Mr. Riddle carried with him. The love of aviation drove our cofounder's life. Let us remember him every time we are flying or see an airplane pass overhead.

There are still the general concerns like parking in the sand lots and having to walk across campus to get to class. Or seeing numerous different departments enquiring into some kind of information and receiving just as many unique answers as there were departments. As hard as we try to schedule classes back to back, all that seems left open are the 7:30 am and the 4:30 pm sections. All things considered we have a good life at ERAU and for much to be thankful.

Looking toward the future Spring Break will be here in a few short months. We will freeze during Christmas if we travel north to spend the Holidays, making Daytona Beach look good with its warm weather even in January. The opportunity to see, travel, and understand a previously guarded people will unfold before our very eyes. Maybe one day students from Russia, Finland, and Czechoslovakia will be graduating from Embry-Riddle. Better yet in the years to come, aviation students will be graduating from the Moscow campus of ERAU.

To those graduating this December, 1989 as you go into the world of work remember us here in Daytona Beach. You are part of the family of Aviation, so work hard and be dedicated to your profession. Make John Paul Riddle's dream come alive in your endeavors. When you need a break though, come back and visit us. You are welcome any time and our door is always open.

As each of us celebrate this Yuletide Season may we remember Analdie Rodriguez who once was one of us and now makes his home in the sky. We will miss you and feel an emptiness from the absence of you here on earth, but you will not be forgotten as long as Riddle students are still flying.

Christmas draws closer with each passing day, we look forward to visiting family and friends not seen for some time. Travel safely. Have a Happy, Happy Season and God bless you.

Positions open for Campus News Reporters

Apply at the Avion office, U.C.

Attitude Adjustment gets crowd physical with entertainer 'Murph'

by Greg Naccarato  
Campus News Reporter

At the attitude adjustment Friday night, December 1, in the John Paul Riddle Student Center, Murph "The Physical Comedian" brought a different type of antics to the ERAU stage.

Instead of having someone from the Entertainment Committee make the introductions, Murph had on a wireless microphone and made his own. Not before confusing the audience though, as to his location.

A voice talked to the crowd for approximately five minutes, prior to him coming down into the audience to show himself. His entrance started by making balloon animals for certain ladies in the crowd.

His act is one of bringing out laughter through the use of unicycles, ladders, juggling pins and balls, and performing acrobatic feats along with different uses of fire. Routine number one involved balancing on a free standing ladder and lighting a small firework that went bang.

The show was at a slow start until Dave Indyke made his appearance with dinner. Murph promptly picked up on the chance and asked the audience to vote if Dave should stay or go. The audience clapped for the latter, where Murph said "Just joking." Dave stayed and enjoyed dinner and the show.

A balloon swan is next made, to the pleasure of a particular lady who went up on stage to retrieve it. She gave the acrobat a kiss and he responded by making fluorescent green balloon lips to kiss her all the better.

Routine number two included juggling to music with balls. The music takes a while to start and when it does the song begins in the wrong place. He jingles and belly dances to the music, from where he lays on his back to show his juggling

capabilities.

Murph has a small problem getting on the short unicycle, so he asks Barbara Tihansky to hold it while he boards. He runs up behind her and lifts her on to his shoulders. He scales the unicycle and rides around the stage wanting Barbara to look professional as she becomes part of the act.



"Murph"  
The Physical Comedian

Unicycles and juggling are combined at this point to make the crowd go "Ooooh" and "Aaaah," at Murph's signal, of course.

After a short costume change on stage to red and white striped tights and red socks by the comic, the audience is treated to a "three-club juggling ballet."

Followed by "Heavy Metal II, the Six Foot Cycle of Death." Murph mounts the tall unicycle and gets Renee Williams to hand him the batons. As she hands one up he grabs it and as she hands up two more he drops the one. This continues for a few times until Renee throws up the last one to him.

Remaining a good sport she stays on stage for the sketch, and as it ends Murph goes through a departing goodbye ritual. The last of it involves him doing a somersault which she must perform too. A little

reluctant, Renee gets it performed on her by Murph. Another costume change reduces the clothing to a pair of red and white striped running shorts. This outfit gives an opportunity for the comedian to perform a parody on muscle flexing congruent to the Mr. Universe contest.

Murph benches chairs with the highest number being three. To really dazzle the crowd these are balanced on his mouth and nose.

Fire is the finale of the show, with Murph swallowing flames and juggling fiery batons. He says most people ask in reference to the ancient light "...is it a fake fire or cold flame?" Because at one moment he grabs the flaming end of one of the batons.

The show ends with the students laughing and wandering up to the stage to receive balloon animals.

Tom Murphy, his real name, has been performing for 14 years. He graduated from East Stroudsburg University with a double major in physical education and sociology.

Juggling, acrobatics, and circus type performance have intrigued him for many years. Tom has traveled all over the world doing circus acts. In 1987 his effort was recognized in Paris by winning the Cirque de deMain (Circus of Tomorrow). This is an international circus competition where clown performers come from many countries to compete without the equipment and get into acting on a sitcom or in a movie. Movies top his preference list because he can do his own stunts, but still be an actor at the same time.

His future comic character for himself is to combine the story telling ability of Spalding Gray and the continuous wit of Robin Williams. Thus making people laugh without the acrobatic equipment as he does now.

Aviation Law discussed at symposium

by Martin Kammerman  
Campus News Editor

The third annual Aviation Law/Insurance Symposium will be held at the Indigo Lakes Resort in Daytona Beach. John J. Kennelly and Cecile Hatfield, both aviation attorneys will be the moderators for the symposium.

Kennelly is known as the Dean of Aviation Law. He has participated as an attorney in several aircraft accidents and disasters in the United States and abroad. While Kennelly is most well known for his participation in aviation law, his is also a member

of the International Academy of Trial Lawyers, International Society of Barristers, International Society of International Law, World Association of Lawyers and the American College of Trial Lawyers. Kennelly is the author of many books, such as *Litigation and Trial of Air Crash Cases* and he was the editor of the *Trial Advocacy Guide* as well. While at the symposium, Kennelly will also be discussing *Aviation Tort Suits Against the Federal Government*.

Hatfield currently works with the Aviation Law Firm of McDonald and

McDonald in Miami. She was most recently Associate General Counsel for Piper Aircraft Corporation. She also worked as an aviation trial lawyer with the United States Department of Justice. Hatfield is a licensed pilot and ground school instructor. She served as chairman of the Aviation and Space Law Committee of the American Bar Association's Section of Torts and Insurance Practice, is a member of the Federal Bar Association and a director and contributing editor for the *Lawyer-Pilots Bar Association*. Her memberships include the Royal

Aeronautical Society, the Ninety-Nines, International Organization of Women Pilots, Florida Pilots Race Association, and the Miami Aero Club. Hatfield will be specifically speaking on *Recent Developments in Aviation Law* as well as serving as moderator.

Several well known aviation lawyers from different countries will be present at the symposium which will be held on January 24-26. Registration will be limited. For more information call Gary Brindza at (904) 239-6185.



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# Call Me Zora and other ballads presented in memory of instructor

by Brian Schermerhorn  
Production Manager

On the evening of November 22, Sigma Tau Delta presented "Story and Song," a series of ballads and the play *Call Me Zora* in memory of Joseph Shaw. Shaw, who recently passed away, was known to many as an actor, artist, teacher, and friend. He was a true asset to Embry-Riddle and is greatly missed by all.

Under the direction of Ann Magaha, the balladeers took the stage at 8:15 pm and entertained a full house in A 109 for the next twenty minutes. The ballads were among many from the fifteenth century, which have been modernized and Americanized to have taken place in the past two hundred years. The playlist included such ballads as "Streets of Laredo," sung by David Panzer and accompanied by Dr. Oxley on the harmonica; the "Boston Burglar," presented by Berry VanHout; Jimmy Stewart impersonations by Bill Andrews; "Demon Lover," presented by the whole group and sung by Travis Hughes; "Jesse James," presented by all and featuring Chris Day on the guitar with Dr. Oxley on the harmonica; and many more. As a very special presentation, the group closed with a ballad composed by Dr. Robert Oxley about an actual occurrence in Joseph Shaw's life. "(The ballad) would have made him laugh, had he been here...He would have liked it," said Mrs. Magaha after the show.

The second half of the show, *Call Me Zora*, began immediately following the ballads. The play was brought to us by the Support Service Group of Bethune Cookman College. Under the direction of Dr. Mary Alice Smith, Sandra Offian, Katie Blair, and other English professors, the group selects students for a two-year period and encourages them to take an active role in college, staying with it through



**Minstrels...**  
These balladeers are part of a singing troupe in the play *Call Me Zora*. The play was dedicated to the memory of the late Joseph Shaw.

graduation. Many of the students selected are first generation college students, that is neither their mother nor their father have ever attended college. The group has seen many plays, including last month's *Mid Summer Night's Dream*.

*Call Me Zora* is one of many works written by Zora Hurston, a writer from Orlando, Florida. Ms. Hurston has written primarily about the rural black South in her career. The cast for Wednesday's play consisted of Camille Holder, Scott Johnson, Juliet

Oliver, and Genese Turner. These four acted out the roles of a small, black, religious family and told many stories. One of which was when the Devil was going to Palatka at Christmas time and hid behind a stump from God. Then he jumped out and shouted "Christmas present" to which God replied "Take the East coast" and continued walking. The performance also consisted of many songs and had a total running time of approximately twenty-five minutes.

## Holiday season shows its religious aspects

**Hanukkah**  
Hanukkah: the post-biblical festival of lights which is annually celebrated for eight days (this year beginning December 23), commemorates the struggle of the Jews against pagan forces at the time of the religious persecutions by the Graeco-Syrians, a struggle which greatly formed the character of the Jewish people.

The Hanukkah lights symbolize the Jewish belief in the gradual progress of spiritual enlightenment. Starting with one light on the first evening of Hanukkah and increasing the number of lights by one each evening, the Jewish people the whole world over mark thereby the slow but steady victory over the violent storms which have raged against Judaism across the centuries. Hence the Menorah is looked upon as the symbol of Jewish faith. Each lighting begins with the new candle that has been added, and progresses from left to right, in keeping with the rule that all turns, made in the Temple, had to be towards the right. The extra candle is used for lighting of the Hanukkah lights.

**Advent**  
Advent: The liturgical year begins with the first Sunday of Advent, which introduces a season of four weeks or slightly less duration with the theme of expectation of the coming of Christ. During the first two weeks, the final coming of Christ as Lord and Judge at the end of the world is the focus of attention. From December 17 to 24, the emphasis shifts to anticipation of the celebration of his Nativity on the solemnity of Christmas. Advent is not a season of fasting; it is a season of prayer. A help in fixing our focus is the Advent Wreath.

Obscure in origin but from Germany, it is believed that the Advent Wreath may have had its beginnings in the pagan fire wheel. In Christian symbolism the wheel or wreath stands for eternity. Its use is especially fitting during Advent, the season of anticipation of the coming of the Lord. The wreath also represents the cycle of thousands of years from Adam to Christ during which the world awaited the coming of a Redeemer. It also represents the cycle of years since then that we have been awaiting his second and final coming in glory. It bears four candles, equally spaced. Each Sunday of Advent another candle is lit when the family or group gathers in prayer, usually before the main meal of the day, and usually gaining its focus from the scriptures. On Christmas Eve, the violet-blue candles are replaced by white ones and a white Christ candle is set in the middle of the wreath. All these candles are lit at the same time when the family or group gathers in prayer.

## Command of AFROTC changes hands

by Greg Naccarato  
Campus News Reporter

The command of Detachment 157, Air Force ROTC, at Embry-Riddle Aeronautical University was officially changed on Saturday, Dec. 2 at 10:00 am.

Cadet Colonel Zimmerman passed the unit flag which symbolizes the command to Cadet Colonel Watis who will lead the detachment next semester. Municipal Stadium in downtown Daytona was the location for the ceremony.

Not only did the flag pass from the old to the new commander, but those receiving special awards were

decorated also. Some of these include the Reserve Officers Association Award, the Air Force Association Award, the Daughters of the American Revolution Award, the General Electric Award, and a few Meritorious Service Awards given to passed active duty personnel.

After that the Special Operations group of the detachment performed a routine with the Precision Drill Team going first. The squadron marched to silent orders as the cadets maneuvered about the field in different formations. Accompanying background music provided the cadence for the drill and enhanced the majestic atmosphere of

the morning.

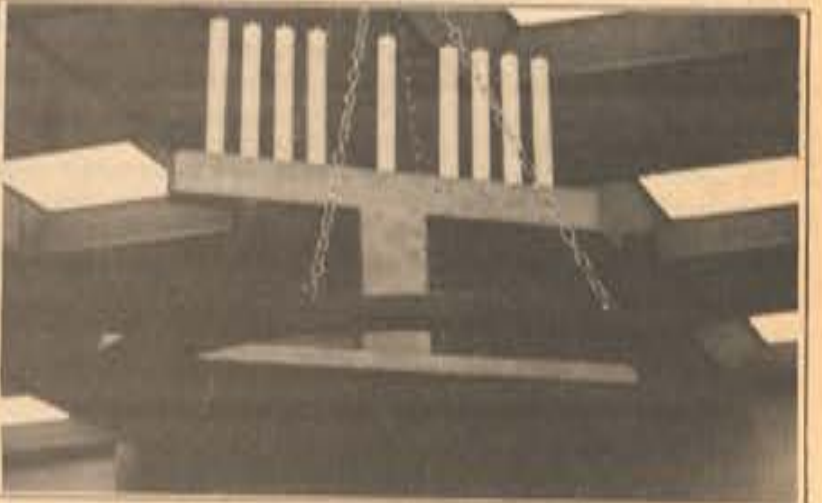
Next came the Rifle Team, who again drilled to music. This time rifles were used with the formations. Each cadet had a rifle which was twirled, turned, and exchanged with other cadet's rifles to make fancy movements. The difficulty involved is that these movements are all done in unison while marching at the same time.

The Pass-in-Review followed the change of command with each squadron passing in front of the reviewing stand to salute the cadet commander and his staff, Col. Hinkley, and the reviewing officer Brigadier

General Ron Williams. Drums from the detachment's band provided a cadence for the squadrons movements.

In addition, the Color Guard stood fast facing the reviewing stand with the American Flag standing straight and proud waving in the breeze. The unit colors were presented likewise to salute the occasion.

At the conclusion the band played "Up into the Wild Blue Yonder" which prompted the VIPs to stand and give recognition to the melody. The commander then had groups dismiss the cadets, thus ending the change of command at 10:50 am.



The combination of Hanukkah-Advent wreath that has been hanging in the U.C. symbolizes past religious rites that have since become a focal point of the Holiday season.

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Photo by Blair Clark

### In mourning...

Howard Miller pays a tribute to his son. Michael Miller was killed in a banner towing accident in July.

## A father remembers the death of a son

by Tina Matilla  
Copy Editor

Mike Miller died on July 12, 1989 in a banner-towing accident in Ocean City, Maryland. He was a graduate of Embry-Riddle and the son of Howard Miller, the father who came to ERAU to tell the story of his son's death.

Last Wednesday, November 29, Howard Miller came to ERAU to speak to Aeronautical Science classes about the tragedy of his son's death. His purpose in coming and talking to students of Embry-Riddle was to help students to understand the senselessness of the risks encountered by would-be pilots who take on dangerous jobs in order to accumulate enough hours to even qualify for a good job as a pilot. In addition, he wanted to give attention to the importance of the father and son relationship.

Howard Miller had spoken with President Kenneth Tallman as well as Chancellor Eric Doten about coming here, and both had agreed that the speeches would be a good idea.

With these speeches Howard Miller's was given the opportunity to heal the wound left by the loss of his son's life. "It's not just his frustration I'm trying to deal with, but mine," said Mr. Miller.

Howard Miller gave a father's recollection of the things his son went through in the last days of his life. He chronicled his son's life, from the time Mike first felt the desire to become a pilot to the last days before his death. Using Mike's pilot's log, Mr. Miller put together a time line of the events in Mike's life which had caused him to take on the dangerous job of banner towing.

The speech served as a sort of warning to those flight students who would soon have to look to a demanding job market which requires at least 1000 hours of flying time to be eligible for positions. Howard Miller spoke about his son's job search and his own (Mr. Miller's) attempts to understand his son's refusal to take on ground jobs at airports. "I tried to convince him to take anything related to the industry, even if it was on the ground. But his answer was, 'I'm a pilot, Dad. I've been trained to be a pilot. I want to work as a pilot.'"

Mr. Miller explained as part of his speech, that part of what made Mike take up the job as a banner towing pilot with Ocean Aerial Advertising, was the idea that he (Mike) wanted to free his parents from financial responsibility. Howard Miller said, "I think Mike felt a real sense of guilt over the expense of Embry-Riddle. So after he graduated, I think he was really anxious to get a job and not have to count on my support. I think this was in the back of his mind."

The job he chose, however, would cause his death. It was exactly the kind of risk involved in banner-towing that Mr. Miller hoped he would be able to dissuade the students from taking.

## Aviation Business students tour Airbus

by Michael Hanke  
Special to the Avion

On November 17, 1989 at 1 pm, Aviation Business Administration graduate students entered Airbus Service Company, the training center of the European aircraft manufacturer consortium Airbus Industrie (AI). Following an invitation by Mr. Mark Luginbell, the graduate students were all looking forward to learning more about the training center's operations.

The Airbus training center is a subsistence of Aeroformation which was established in 1972 as a joint venture of AI and Flight Safety International to provide training for customer personnel involving all Airbus aircraft. According to Mr. Luginbell, who holds an M.B.A./A. from ERAU, the center started its operations in Miami in 1985 to serve North, Central and South American customers. Seventy instructors annually train approximately 1,500 flight crew, cabin crew, and maintenance crew members. The facility houses full motion/fixed based simulators, learning carrels, door mock-ups with escape slides, and conventional

classrooms for the A 300 B2/B4, A 310/A 300-600, and A 320. Additionally, there are video and computer based instruction (VACBI) stations which allow flight crew and maintenance crew members



These ABA graduate students were invited to tour the Airbus Training Center, to follow their particular courses at their own pace. Next year, the training center will receive its full

motion fixed based simulators for the A 330/A 340, the manufacturer's new longhaul aircraft. Asked about the future of the fifty A 320s ordered by Braniff, Mr. Luginbell stated that "things are currently in limbo" and declined to give further details.

With the respect to the cost of operating a full motion flight simulator, Mr. Luginbell cited approximately \$600 per hour. The complete training cost for a flight crew range between \$50,000 and \$55,000. Mr. Luginbell also pointed out that the amount of training Airbus sells to its customers is restricted to a certain number of days rather than to certain number of aircraft, a practice applied by Boeing. Correspondingly, to allow customers maximum use of the facilities, AI keeps the training center open 24 hours a day.

The highlight of the tour at Airbus was a "flight" in the A320 full motion simulator from Miami to Fort Lauderdale and back to Miami. With the help of training captain Ken Field, the graduate students managed to handle the glass cockpit with its mini-side stick to return safely to firm ground. People in

see AIRBUS, page 20

## High achiever graduates to be honored Honorary luncheon held for outstandingly involved

by Phyllis A. Salmons  
Special to the Avion

The Senior Academic Achievement and Involvement Luncheon will be held on December 15 in honor of those graduating seniors who have excelled in their academic and/or extracurricular pursuits while at Embry-Riddle Aeronautical University.

To receive an invitation to the luncheon, a senior must have a cumulative grade point average of 3.50 or higher or must have served as President (or highest ranking student representative) of a University Club or Organization.

The Senior Academic Achievement and Involvement Luncheon provides an opportunity for faculty, administrators, and family members to express their appreciation of the hard work and dedication of these outstanding students.

The luncheon will be held at the Roof Restaurant of the Daytona Hilton. Dr. James Ladescic of the Aerospace Engineering Department will be the keynote speaker.

Ladescic earned a Ph. D in Mechanical Engineering from the University of Florida. He is a Registered Professional Engineer in the State of Florida and a Designated Engineering Representative for the Federal Avia-

tion Administration.

Ladescic's first experience with Embry-Riddle was as a student; he earned a B.S. from Embry-Riddle in Aeronautical Engineering in 1967. He completed his Master's in Engineering Mechanics at the University of Central Florida. After having worked with the Hamilton Standard Division of United Technologies Corporation and the Electric Boat Division of General Dynamics Corporation, Ladescic became a faculty member at Embry-Riddle in the Mathematics Department and later served as the Project Manager of the G.R. Wallace Research Center at ERAU.

In the late 1970s, Ladescic decided to take a break from the classroom and he then worked for the Defense Division of Brunswick Corporation, the Simulation and Control Systems Department of General Electric Company and served as the Vice President and Owner of Associated Engineering Technologies, Inc. Ladescic returned to Embry-Riddle in 1981 as a Professor of Engineering and he now serves as the Graduate Engineering Program Chairman. He also serves private consultant in general engineering sciences and structural engineering.

Ladescic teaches undergraduate and

graduate courses in Fluid Mechanics, Thermodynamics, Dynamics, Solid Mechanics, Aerodynamics, Aircraft Performance, Boundary Layer Theory, Structural and Advanced Detail Design. He has served on numerous campus committees including Faculty Search, Chairman Search, Graduate Dean Search, Tenure, and Curriculum.

Professor Ladescic, being one of Embry-Riddle's outstanding graduates himself, will provide an interesting message for the outstanding graduates of 1989.

The following students will be honored on the basis of their outstanding academic achievement:

Anas M. Alquathi  
John A. Antkowiak  
David J. Bellow  
Lee W. Brody  
Jeffrey D. Conekin  
Christian A. Eichmann  
Robert W. Hites  
Mikko J. Hattunen  
Stephen Letter  
Hon M. Lui  
Timothy P. Lukaszewicz  
Theodore W. McGee  
Jose A. Montero  
Kenneth A. Mullun

James R. Norman II  
John A. Rathman, Jr.  
James G. Rea, Jr.  
Nancy P. Rolen  
Gregory D. Smith  
Michael R. Stizza  
John W. Uram  
Judith L. Webb  
Wendy A. Westhoff  
Gordon D. Wolfram  
Gregory A. Yanok  
Pamela S. Ziesler

The following students will be honored on the basis of their outstanding service to the University:

Eugene Reelick  
Nicholas Chrysan  
Greg Janeczek  
Kim Baumgartner  
Robert Weatherbee  
Bryan Collier  
Brad Kost  
John Rathman  
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# New members join the Omicron Delta Kappa society

by Tina Matilla  
Copy Editor

For the twenty-fifth time since its appearance at Embry-Riddle Aeronautical University on November 21, 1975, Omicron Delta Kappa's prestigious Icarus Circle grew as new members were inducted. Kapios restaurant hosted the event which took place on Sunday, November 19 in which 22 new members, including Chancellor Eric Doten, were inducted into the ranks of this national honor society.

The initiation banquet was a gathering of Embry-Riddle's best, in academic and other arenas. The initiates are students who have done exceptionally not only academically but as leaders in the community. The initiates are athletes, student government representatives and leaders, teachers for mentally disabled and even assistants for the Special Olympics. They are an elite group of leaders who are specially selected to be part of a small organization.

Omicron Delta Kappa president Michael Garrow said, "We had a lot

of really good applications this year and we were sorry to turn down some of the ones we did."

Present at the event were members of the faculty, present members of Omicron Delta Kappa and the initiates themselves. The initiates were: Raymond M. Baesler, Jr.; Robert T. Bentley; Stephen T. Chafe; Bryan W. Collier; Benjamin W. DuBois II; Charles S. Foster; Glenn A. Gougler; H. Curtis Harris; Darrell T. Hawkes; Mary Lynn Hoitger; Robert Hites; Richard A. Howell; Robert Jalali; Thomas E. Klemmer; Victor D. Lloyd; Tim Meshingpoosh; H. Darren Page; Michael L. Rouse; Michael L. Rouse; Michael S. Shaw; A. Richard Wereta; Eric E. Zimmerman; and the Honoris Causa, Chancellor Eric Doten.

The new inductees were honored to have been accepted into Omicron Delta Kappa. Darren Page said, "It's quite an honor to be part of such a small organization. There are people I thought deserved it more than I did... and that makes this even more important to me."

Robert Bentley said, "When I first got the invitation I was surprised. I was honored." Mr. Bentley's sentiments were reinforced by Charles Foster, who said, "It feels pretty good to be inducted into an organization like this one. The qualifications are pretty strict."

introduced Dr. John Wheeler, who gave the invocation.

Because Dr. Wheeler is member of the Icarus Circle from his college days, it was only appropriate that he give the invocation. In his prayer he offered God "gratitude for the privilege of leadership" given to those

assembled, mentioning "lofty ideals" and "dedication" as qualities belonging to members of the Circle.

Directly following the invocation, the actual initiation ceremony took place. Michael Garrow guided the ceremony, first asking the current members of Omicron Delta Kappa to

stand with him around the blue clad, candlelit table bearing the symbol of the ODK—the circular key crossed by two bars between which appear the Greek letters ODK. After the current members gathered around the back of the table, Mr. Garrow called the initiates one by one to join the half-formed circle. When all of the initiates had gathered around the table, Michael Garrow addressed the inductees, reading from the initiation ceremony book. Mr. Garrow then led the initiates in the Omicron Delta Kappa pledge.

From this point, Mr. Garrow explained the key and what it symbolizes. He mentioned the five stars that run on the bar above the letters ODK and lit a candle for each. The stars represent scholarship; athletics; social, service, and religious activities and campus government; journalism, speech, and the mass media; and creative and performing arts.

With the lighting of the candles done, Michael Garrow then asked the initiates to perform the act that would officially make them members of

Omicron Delta Kappa—the signing of the membership book. One by one, the initiates came forward and signed the book by the light of the five candles and then shook the hand of Michael Garrow.

The rigidity of the ceremony was broken when Michael Garrow asked, "Did I forget anyone?" Two people, Curtis Harris and Charles Foster came forward saying "I was beginning to think you (Mr. Garrow) didn't want us in this organization."

The last handshake took place and the new members exchanged greetings with the veteran members.

What followed was dinner and easy, good-natured talk. The candles would burn for the remainder of the evening.

Aside from dinner, the last two events would be a speech by Chancellor Eric Doten and the benediction by Dr. Wheeler.

The Chancellor's speech included humor, honesty, references to a bumper sticker and a tribute to Jack R. Hunt. He said, "Speaking about

*"He (Jack R. Hunt) was able to inspire an awful lot of people...with his fierce dedication to the school...his spirit guided the institution through all kinds of growth."*

Chancellor Eric Doten

see ODK, page 20

# The life of Dr. John Pope shows a man of wide variety

by Tina Matilla  
Copy Editor

Dr. John Pope is a veteran of the Vietnam War as well as the theater. His past is filled with accomplishments and experiences many can only dream about. He has worked for the Federal Bureau of Investigations, has taken two tours of Vietnam, taught ROTC at the University of California in Berkeley at a time when it was dangerous to do so, has worked as a paid actor and has even taught at the prestigious Princeton University. This professor also holds a doctorate in interdisciplinary studies. His Ph. D. embraces Business, Education, and Liberal Arts.

Today, Dr. John Pope teaches in the Business department of Embry-Riddle Aeronautical University. He teaches courses such as Human Resources, Organizational Behavior, Airport Management, Business Policies and Principals of Management. In addition, he is Chairman of the Faculty Senate and Speaker of the Faculty Assembly. More than anything, however, Dr. Pope loves to teach.

His interest in teaching came as result of both his military career and his activities in the theater.

Between the years 1955 and 1959, Mr. Pope enrolled in the Army ROTC program. These were draft years and ROTC granted him the opportunity at least to choose how he was to serve.

He said of his tour, "I wish I could say I was a great patriot and that I went through all of it for my country, but I would by lying."

For Dr. Pope, the war was something he had to go

through, and he did it in the best way he could. After eight and a half years, he got out of the Army and went directly into the FBI. He had heard from a friend that the only requirements were a Bachelor's Degree and three years of supervisory experience. He applied and got the job.

During his years with the FBI, he met with an old commanding general who offered him (Dr. Pope) his previous rank and position in the Army as well as the chance to get a Master's degree if he reenlisted. He did so and completed a 21 year career with the military.

Throughout his career in the military, Dr. Pope was in administrative positions, coordinating the actions of people around him and taking responsibility for their mistakes and credit for their achievements. He knew how to handle people.

As a compliment to this, he had also been an actor in his



Dr. John Pope

youth. Unfortunately, the military forced him to "take a 21 year vacation from acting." Eight years ago, when Dr. Pope first came to Daytona Beach to teach at Embry-Riddle, he ended his 21 year vacation from acting and started participating in Community Theater and the Deland Playhouse, acting in plays such as Inherit the Wind and others.

Since he's been a part of these organizations, he has been asked to become an officer in their ranks, performing administrative duties. He has refused these invitations. Dr. Pope said, "All day long I teach and administer. I don't want to run the theater. When I act, that's my enjoyment." Even directing in the theater, something he has done in

the past, doesn't equal the acting. "When you're acting you have control. When you direct, you don't have that. The performers get out there and may do well or they may botch the whole thing. You just can't know," said Mr. Pope.

This experience, combined with his military experience gave him a good base for his teaching.

"There's something about the theater that I find in teaching—that unpredictability. Every class has a different personality—each one reacts differently," said Dr. Pope.

The job of teaching is one that Dr. Pope enjoys very much.

"I love to teach and I work at my teaching... I've learned to sort of read my students and react to what they're feeling. I hate to call them an audience, but that's what they are," said Dr. Pope.

To Dr. Pope, the experience of teaching at Embry-Riddle is one that is quite different from teaching at other universities. "The students who come here are different. I've taught at Princeton, where the students are all frontline, but they don't have any direction. At Embry-Riddle students know where they're going and they want you to help them get there."

In the process of "getting there" a few students over the years have given him the gift he values more than anything. "One of the most exciting things that can happen to a teacher is to have a student go beyond him. It's like watching a nova," said Dr. Pope.

As a teacher Dr. Pope wants his students to become more aware. He said, "I want to prepare them (students) for the reality of this world. What you see in those books is not reality. They're facts, but they need interpretation."

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HAS IT ALL**





SHOOTING THE ROCK

by John Strelecky

A large number of schedule changes are on the horizon for next year's Eagles basketball team. At the moment our team has displayed impressive consistency, over the last two years they have lost 31 straight games. Now sure, consistency is something coaches look for in their team but that's not quite the type that they want. The credit for the losses shouldn't entirely fall on the players or coaches, however. Yes, they are the ones directly involved with the game, but it is pretty safe to say that ERAU is playing above its level of ability when it comes to many of the teams on their schedule. This is to be expected, as the basketball program is only in its second year, getting games with schools of about the same level of ability (NAIA) is tough. It sometimes becomes necessary to schedule teams that play one to two levels above your own team (NCAA Div II and III). Nonetheless, putting a non scholarship NAIA team against

an NCAA full scholarship team (which is what ten of our opponents are) is asking for trouble. This is not to say that this year's team isn't going to win any games. Despite a rough start this season they have continued to practice and play hard, and with 18 games left to play there's still plenty of time to get things rolling. They are going to have their hands full however, because many of their opponents have well established and successful teams. According to head basketball coach Steve Ridder "The second half of our schedule should be easier, because we are going to be facing more teams that are about on our level." "We will definitely win some games."

Next year scheduling should be easier for the Eagles. With a second complete year of experience to our credit, more NAIA teams will be willing to add us to their schedule. This should translate into more competitive games and less possibilities of having to play over our heads.



Jackson injured in state tournament

by John Strelecky Sports Writer

The Embry-Riddle Eagles basketball team participated in the Armstrong State basketball tournament in Savannah, Georgia this past Saturday.

The opening round games pitted ERAU against Armstrong State and Lincoln Memorial against Devry. The Eagle five had a tough go of it in their first game, losing 122 to 47 to the stronger Div II team. Perhaps even worse, was the loss of senior point guard Al Jackson who has been averaging over 16 points and 6 rebounds per game. With just two minutes gone in the first half Jackson went down with an ankle injury and was unable to play for the rest of the tournament.

The tournament featured Armstrong State, an NCAA Div II team out of Savannah, Tennessee based Lincoln Memorial College, one of the top ranked NAIA teams in the nation, Devry Institute of Technology, an NAIA team from Georgia, and Embry-Riddle.

Leading the attack for the Eagles was guard Mark Ingemi who finished with 13 points and 4 rebounds and Hermann Bauer who tallied 11 points, nine of which were from behind the three point line.

In the consolation game Embry-Riddle took on Devry Institute of Technology.

Devry jumped out to an early lead and led by as many as 34 points in the first half. The Eagles tried to close the gap but were still trailing by 27 at halftime with the score at 58 to 31.

The second half showed a complete turn around in the game as Embry-Riddle outscored Devry 58 to 41, but despite the impressive effort they were unable to overcome the first half deficit and the game ended with Devry winning



Out?...

Senior point guard Al Jackson (number 33) was unable to play in the second half of the Armstrong State Tournament due to an ankle injury suffered in the opening game.

99 to 89. Devry was led by Macklin Bradford who took an unbelievable total of 42 shots in the game and finished with 40 points (21 from behind the three point line), 9 rebounds, and 10 steals. In addition Dartz Daniels hit for 22 points and added 10 rebounds.

Pacing the Eagles was Mark Ingemi who led the team in scoring (22 points) and rebounds (7), Hermann Bauer who finished with 13 points and 5 rebounds, and Aaron Williams who hit for 13 points and grabbed 4 rebounds.

Andre Ware awarded Heisman Trophy

by Michael Gomm Sports Editor

Houston Cougar's quarterback Andre Ware received 242 first-place votes and 1,073 points to become the first black quarterback to win the Heisman trophy.

The record-breaking quarterback, who set 13 NCAA records this season, beat out Indiana running back Anthony Thompson by a narrow margin of 70 points in the nationwide balloting by sports writers and previous Heisman winners.

Following Ware and Thompson in the balloting order were quarterback Major Harris of West Virginia, quarterback Tony Rice of Notre Dame, Quarterback Darian Hagan of top ranked Colorado, quarterback Dee Dowis of Air Force, running back Emmitt Smith of Florida, linebacker Percy Snow of Michigan State, quarterback Ty Detmer of Brigham Young, and a tie for 10th-place between flanker Raghbi "Rocket" Ismail of Notre Dame and running back Blair Thomas of Penn State.

Throughout the season names such as Major Harris, Dee Dowis, and Tony Rice joined Thompson as leaders in the race for college football's greatest honor.

Ware's name was not among the elite mainly due to the penalties handed down by the NCAA for numerous recruiting violations. The penalties

prevented the Cougars from being seen on television this season and they will be ineligible for bowl games for the next three years.

Ware's fame was also hindered by criticism of his team's schedule. Many said that Ware's



Wow!...

Houston's Andre Ware passed for over four thousand yards this season.

schedule could not be compared in difficulty to those of the other candidates, even though the Cougar's played four top twenty-five teams.

Other criticisms were that Ware was the product of the Cougar's pass oriented offense in which anyone could be a star. Houston's run-and-shoot offense consisted of four wide receivers and lone running back.

After all was said and done, the most influential arguments were Ware's passing statistics.

Before Saturday's 64-0 win over Rice, Ware's season totals appeared more like career totals for most college quarterbacks; he completed 329 passes in 527 attempts (63%), including 44 touchdown passes, and compiled an amazing 4,299 yards passing.

Until recently the race for the Heisman Trophy was anticipated to be one of the closest in history. Despite the mere 70 point voting margin, off days by other forerunners and an excellent performance by Ware against 18th rated Texas Tech virtually lay the Heisman in Ware's lap.

Like many outstanding athletes in recent years, Ware will have to decide whether to finish school or make himself eligible for the 1990 NFL draft. Ware's preliminary intentions are to fight the lure of money and fame and remain in school to receive his business degree.

Associated Press Top 25

The top 25 college basketball teams are listed below as voted in the Associated Press college basketball poll. Check individual team schedules for next game.

1. Syracuse
2. Kansas
3. Georgetown
4. Missouri
5. UNLV
6. Duke
7. Illinois
8. Michigan
9. Louisiana State
10. Arkansas
11. Louisville
12. Oklahoma
13. UCLA
14. Indiana
15. St. John's
16. Memphis State
17. North Carolina
18. Georgia Tech
19. N.C. State
20. Arizona
21. Alabama
22. Pittsburgh
23. Temple
24. Oregon State
25. Florida



Eagle Lacrosse tied for first place

by Michael Gomm Sports Editor

The Embry-Riddle Eagles Lacrosse Club founded the University of North Florida on Saturday, in Jacksonville, by a score of 18-5.

The Eagles, now 3-1, are tied for first place in the Florida State Lacrosse League.

A strong offensive attack and excellent transition play by the midfielders attribute to the big Eagle win. ERAU's Scott Clark and Jason Whinaker each scored 7 goals for the the Eagles, Craig Bentley had 3 goals, and Tom Haydin added one.

With the score 9-4 in the Eagles favor at halftime, coach Jim Blanchard's halftime speech was nothing more than praise. He told the team to "stay on the ball" and to basically "keep up the good work."

And keep it up the Eagles did. The selfish Eagle defense allowed only 1 goal the entire second half despite the loss of a starter due to a

transfer. Midfielder Aaron Woodward moved into the defensive starting position and did an outstanding job. Darren Page also had an excellent defensive effort against UNF.

The offense added 9 goals in the second half, 7 in the fourth quarter, to more than seal the victory for the Eagles.

Coch Blanchard credits assistant coach Jim "Boog" Powell for the fine strategy in defeating University of North Florida.

"It was the best game we ever had," said Blanchard, "they played great and it was a lot of fun for everyone."

The Eagles next game will be Saturday, January 20th at Jacksonville University. The Eagles beat Jacksonville University in their season opener on October 20th by a score of 8-5.

Coch Blanchard encourages students and faculty to come and cheer on the team. Directions to away games can be arranged by contacting Coach Blanchard at extension 6452.



Hot Streak!...

The Lacrosse team won its third straight this past weekend in Jacksonville against University of North Florida.

College Bowl Outlook

Bowl	Teams	Date
California Bowl at Fresno Cal.	Fresno State vs. Ball State	Dec. 9
Independence Bowl at Shreveport, La.	Oregon vs. Tulsa	Dec. 16
Aloha Bowl at Honolulu	Michigan State vs. Hawaii	Dec. 25
All American Bowl at Birmingham, Al.	Duke vs. Texas Tech	Dec. 28
Liberty Bowl at Memphis, Tenn.	Mississippi vs. Air Force	Dec. 28
Holiday Bowl at San Diego, Cal.	Penn State vs. Brigham Young	Dec. 29
Sun Bowl at El Paso, Texas	Pittsburgh vs. Texas A&M	Dec. 30
Freedom Bowl at Anaheim, Cal.	Florida vs. Washington	Dec. 30
Peach Bowl at Atlanta, Ga.	Syracuse vs. Georgia	Dec. 30
Gator Bowl at Jacksonville	West Virginia vs. Clemson	Dec. 30
Copper Bowl at Tucson, Ariz.	N.C. State vs. Arizona	Dec. 31
Hall of Fame Bowl at Tampa, Fla.	Auburn vs. Ohio State	Jan. 1
Citrus Bowl at Orlando, Fla.	Illinois vs. Virginia	Jan. 1
Cotton Bowl at Dallas, Texas	Arkansas vs. Tennessee	Jan. 1
Fiesta Bowl at Tempe, Ariz.	Nebraska vs. Florida State	Jan. 1
Rose Bowl at Pasadena, Cal.	Michigan vs. Southern Cal.	Jan. 1
Sugar Bowl at New Orleans	Miami vs. Alabama	Jan. 1
Orange Bowl at Miami, Fla.	Notre Dame vs. Colorado	Jan. 1

Sports Writers Wanted

Positions are open for Spring sports reporters. No experience necessary. Openings include reporters for:

- Baseball
- Golf
- Basketball
- Lacrosse
- Intramurals
- Tennis

\*Reporters for select professional sports events are also open

Anyone interested should contact Michael Gomm, Sports Editor, at the Avion.



18  
and over  
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# RAZZLES

## SUNDAY-LADIES NO COVER

AMATEUR MALE DANCE CONTEST. WIN \$100 IN CASH

LADIES \$1.00 DRINKS ALL NIGHT

TUESDAY IS SOO GOOD WE'RE DOING IT ON SUNDAY

## MONDAY-MINI SKIRT CONTEST

\$100 CASH PRIZE

\$1.00 DRINKS BAR AND CALL 8 TO 10

TWO FOR ONE DRINKS 10 TILL ?

## TUESDAY-LADIES NO COVER

EAST COAST GYM

AMATEUR MALE DANCE CONTEST

\$100 CASH PRIZE

LADIES \$1.00 DRINKS ALL NIGHT LONG

## WEDNESDAY-WET T-SHIRT CONTEST

\$100 CASH PRIZE

\$1.00 DRINKS BAR AND CALL 8 TO 10

TWO FOR ONE DRINKS 10 TILL ?

## THURSDAY-EVERYONE DRINKS FREE

8 TO 11 BAR OR CALL

BO JANGLES HOT LEGS CONTEST

\$500 GOLD FORM MISS BO JANGLES

FINE JEWELERS OF VOLUSIA MALL

## FRI & SAT-WEEKEND BLOWOUT

\$1.00 DRINKS BAR AND CALL 8 TO 10

TWO FOR ONE DRINKS 10 TILL ?

Merry Christmas, Happy New Year  
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# AAAE

by *Erinn Moore*  
*Avion Correspondent*

Last week, we had two great speakers from Emergency One in Ocala, Florida. They spoke about the different types of emergency equipment they manufacture and the types of airports require certain vehicles. If you are planning a career in Airport Manager, the types of emergency equipment, location, and emergency plans will be an important part of your career.

They also showed slides and a movie about the construction of emergency vehicles, and the history of Emergency One. They were very impressive speakers. I learned quite a bit about emergency equipment and procedures.

The Christmas party last week was a great success. Many people turned out. All and all, this semester was outstanding. We had great speakers and many club members to listen to the speakers. To all current club members, I hope that next semester you return to AAAE and continue to make it a great club to be in. I enjoyed writing these club articles from week to week, and I hope I can continue writing for you in the future. Merry Christmas and have a Happy New Year!!!

# Flight Team

by *Amy Brimeyer*  
*PFDT Representative*

As the fall semester comes to an end most of the Team's efforts are focused on projects for next semester.

Some of those projects include

working at Halifax Urban Ministries, fundraising, and coming up with new and exciting ideas for safety briefings. We would like to give a big thank you to all coaches for their love and devotion.

# Sigma Chi

by *Fawaz Atchoo*  
*Chapter Editor*

Well, it's been said before on numerous occasions throughout this semester, and the time is finally here. The last week of classes. This week could be the most important one of the semester for many, as almost all of the teachers hold their last tests of the year this week. Some of these tests even count more than earlier ones, making it seem like there are two final exams—one this week and one next week. This is the week which makes or breaks a lot of us, the week in which deals are made with professors for make up work and extra credit assignments to boost up the student's average.

Sometimes it works, sometimes it doesn't. At any rate the tensions should be mounting pretty high this week and next, caused by the intense concerns over grades and compounded by the anticipation of spending several weeks with family and friends at home for the holidays.

The best advice is to put that out of your mind for now, get through next week, and then relax.

The semester on the whole was very productive, ending with a successful turn out at last week's Blood Drive and quite a few toys donated by the Brothers and Little Sigmas for the Cleo Wallace Center for Children.

We've had so many fun times it's hard to remember them all, but they won't stop.

The seniors who are graduating this semester will be leaving us for the "new world" to make their way through life, but they'll be back whenever they can to visit, and they'll always be welcome.

Now, there's a great pledge class, strong in number as well as dedication, awaiting initiation in the beginning of Spring, who will keep the cycle going. To them both, I say this: Keep Sigma Chi in your heart. Never let it go. In the time that you are away, don't stop thinking about it. Strive to live it. And, when you come back, you'll find again what never dies. "You'll find it here." Have a great Christmas!

# Naval Aviation

by *John Spannake*  
*Secretary*

It's been a great semester for us this fall and there are more good things coming up in the near future and next semester. Club President Pat Cassidy, with the help of Vice President Scott Salzer, secretary John Spannake and the support of club advisor Mr. Byington has planned a fun and informative semester.

Back in September Lt. John Maraldo from the Navy Recruiting Command in Jacksonville flew down in his T-34 to speak about what it takes to be a naval aviator and how to go about becoming one.

As always the club has tried to get simulator time in Navy aircraft. Many club members this semester got the chance to fly the S-3 Viking Simulator at Cecil Field. An S-3 also visited on November 7. The pilot and NFO spent time answering questions about their airplanes and then gave a presentation at our regular meeting about the anti-submarine mission of the S-3.

On Tuesday, November 21, the club also managed to get an F/A-18 Hornet down from Cecil. Again the

aircraft was on static display and the pilot spoke to a large audience at our meeting.

We are closing out this fall semester with two field trips. The first was on Tuesday, November 28 when we visited the U.S.S. Saratoga at Mayport Naval Station. The club tries to make a carrier trip every semester and they have always been very successful. Finally on December 7, the club will make a trip to Pensacola, FL. Pensacola is where officer candidates train at AOCs and where primary flight training takes place. Club members are then taken on a complete tour and attend a class graduation. This trip is generally considered to be the highlight of the year and any student interested in going should contact Pat Cassidy or Mr. Byington.

More of the same types of activities are being planned for the spring semester, so if you are interested in Naval Aviation, don't hesitate to attend one of our bi-weekly meetings. Times and location are posted around campus.

Happy holidays and good luck on finals!

# AFROTC

by *C/3C Keith Pechin*  
*Detachment Reporter*

All AFROTC sophomore cadets and two-year program applicants are meeting the challenge of the Weighted POC Selection System (WPSS). The WPSS score determines whether a cadet can receive an allocation to enter the Professional Officers Course (POC), in the junior and senior years. The WPSS score is based on the cadet's GPA, AFQOT (Air Force Officers Qualifications Test) scores, writing and briefing ability, physical fitness capabilities, and their military bearing and aptitude. The cadet's degree of military bearing and aptitude is determined by the cadet's performance in their AFROTC class, Leadership laboratory, and performance in front of a review board. The review board gives the detachment commander, commandant of cadets, and sophomore instructor an opportunity to see how well the cadet holds up under pressure. Cadets must present themselves effectively, demonstrate an ability to think on their feet, and construct organized answers to diverse array of questions.

The final WPSS score are sent to Headquarters AFROTC. There, the WPSS scores are ordered from high to low. A cut off point is made at the number of allocations available for the fiscal year. Cadets receiving an allocation are then given the opportunity to attend Air Force Field Training. Once a cadet successfully completes Field Training, he or she can enter the POC. In the POC, cadets must continue to maintain high standards of discipline, motivation and leadership qualities that they possessed at the time they received their allocation.

# Alpha Eta Rho

by *Dean Zachert*  
*Historia*

Congratulations new Brothers. So how does it feel to be on this side of the jersey? It was a long road, but it was well worth it.

Ritual was very excellent. There is nothing better than a cruise, a three hour open bar, and gambling. Only a few dollars were lost at the tables, I'm

sure. It was good to see all the Alumni again.

It is time to start thinking of a Christmas party, exchange gifts, drink some eggnog and the usual holiday cheer.

Steve, we've got to go out and find ourselves a tree. We need something to put the case under for Christmas morning.

### CLUBS POLICY

- All articles must either be type-written, double-spaced or on disk (formatted in Word Star or Microsoft Word).
- Deadlines for submission of all club material is Wed., 5 p.m., one week prior to publication.
- Photos may be submitted with club articles.
- All submitted material becomes the property of the Avion with the exception of disks.
- The Avion reserves the right to edit all submitted copy.
- For more information, stop by or call the Avion office at (904) 239-8049.

# Senior Class

by *Chris Hartman*  
*Club Reporter*

December 14 will feature a Graduation party at the Marriott Hotel for all graduates, family and friends. The party will begin at 8:00 pm in a casual to semi-formal atmosphere. Please do not forget Cap and Gown pick up that same day between 9 am and 12 pm and 1:30 pm to 4:00 pm. The Senior Class Polo shirts will be on sale during this time.

Also it will be appreciated if all

seniors would donate your parking sticker refund, by filling out a form at the pick up.

December 15 is the Graduation Social from 5:30 pm to 7:30 pm for graduates and their families to honor faculty and staff.

December 16 is the Graduation Ceremony at 10:00 am. Seniors please come at 8:30 am.

December 17 is the first day of the rest of your life. Good luck to everyone!

# Army ROTC

by *C/1LT Michael T. Turner*  
*Detachment Reporter*

On Saturday, November 18, Army ROTC went on a field training exercise at Camp Blanding. The exercise was a coordination between ERAU and North Florida College. It was an exercise planned to introduce and train first and second year cadets to some of the aspects of field life in the U.S. Army. The morning started early with a challenging, vigorous confidence course in which squads contested against each other for the best time. Teamwork turned out to be the key in getting through quickly.

Next, the cadets learned how to construct, cross and dismantle a rope bridge that could be used to cross and obstacle such as a river. Then it was on to the rappelling tower in which they practiced rappelling from a 40 foot tower on the west side and the simulated helicopter.

The afternoon and evening was dedicated to survival training, taught by a Green Beret, Special Forces Unit. The cadets were instructed on how to prepare a live chicken for dinner. Then the cadets were given a chicken to kill, clean and cook. Outdoor survival classes were also given by the Green Berets on building shelters, finding food and making and setting traps and snares. And after eating their chicken dinners, the long day ended with a restful bus ride back to Daytona.

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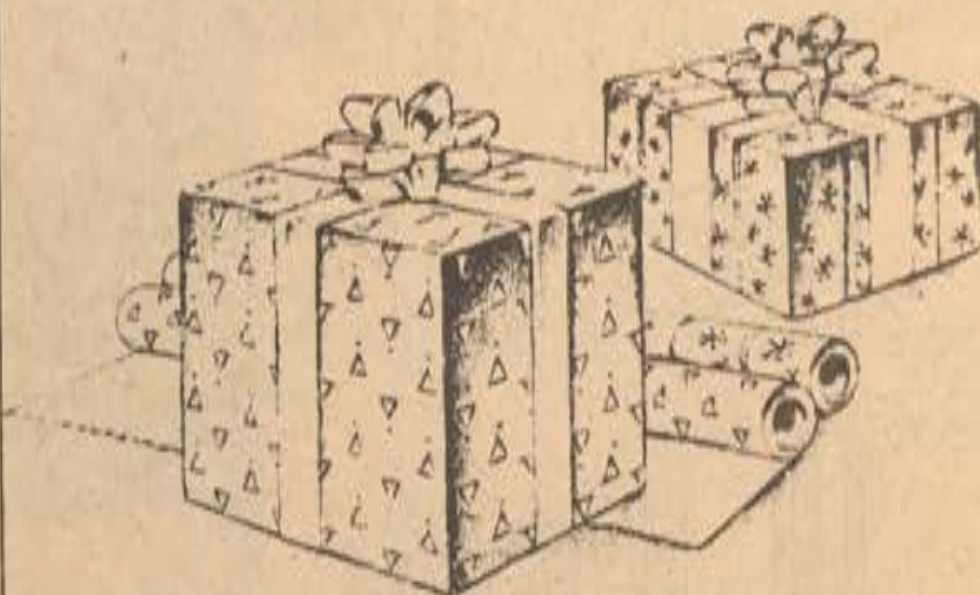
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# KSC modifications will aid in ambitious launch schedule

by Derrick Seys  
Space Technology Editor

The Kennedy Space Center (KSC) has been flourishing with activity in the past few months. All of this has not been isolated to the launching of the Space Shuttle. Workers have been doing several modifications to improve the center's operational capabilities.

The roll-out of *Columbia* to launch pad 39-A is the result of one of the more apparent expansion efforts at KSC. The pad was used for all missions prior to the *Challenger* accident and has not been used since. Pad 39-B was being prepared for launch readiness while pad A was being used. Pad B provided a better launching environment and was used for all of the flights between *Challenger* and *Columbia's* upcoming mission. Pad 39-A has now been upgraded to be comparable to pad B and STS-32 will be the first launch from the facility in almost 4 years.

The recent pad modifications are the result of several years of work done by Lockheed and other contractors during the transition and aftermath of *Challenger*. The launch facility had additional weather protection installed on the rotating service structure to keep the elements from the orbiter. Other significant changes related to the safety of the crew.

Should an emergency escape be required, two new escape baskets could be used in addition to the existing baskets. These baskets provide the crew a quick method to leave the top of the launch tower. To get to these baskets, the crew must exit the orbiter from the side hatch opening. They are then required to run to a platform. To make the task a little easier, large direction arrows were painted on visible areas.

During emergency escape procedures, the area may be flooded with water to provide fire control. This made visibility difficult for scrambling astronauts.

Many other changes will go unnoticed to most individuals. The Orbiter Maintenance Refurbishment Facility (OMRF), where only non-hazardous work could be performed, is going to be converted into another Orbiter Processing Facility (OPF).

The OPF is used to install payloads, remove main engines, and provide most of the post-flight tests. Currently, there are two OPFs and the third is planned to be operating in September 1991. This will give necessary room for the new orbiter, *Endeavour*, which is scheduled for delivery in the spring of 1991.

To aid in the change-over, many of the intricate work platforms and service hardware from the Vandenberg facility are going to be used. By bringing these structures to KSC, a savings of approximately \$3.7 million is expected as opposed to building new structures from scratch. The hardware started to arrive early last month and is being moved by barge.

An orbiter transporter was also received from Vandenberg. This allows for the orbiter to be moved from the OPF into the VAB, called roll-over, without the landing gear having to be extended. This allows for a small time saving that will provide a smoother roll-over. After the orbiter is moved into the VAB, it is stacked to the External Tank and Solid Rocket Boosters. The transporter mounts to the same locations as the External Tank.

Since the *Challenger* accident, Shuttle launches from the Vandenberg facility have been put on an infinite hold. A polar orbit could have been more easily achieved from this location and made it attractive for the launching of spy satellites.

Another improvement to aid in the Shuttle processing flow, is the addition of a third mobile launcher platform. This platform is what the Space Shuttle sits atop, moved to the launch pad, and launched from. These platforms have been modified from the Apollo program.

The platform will allow three shuttles to be in the stacked position at the same time. Theoretically, there may be a time where a shuttle will be on each pad and another ready for launch.

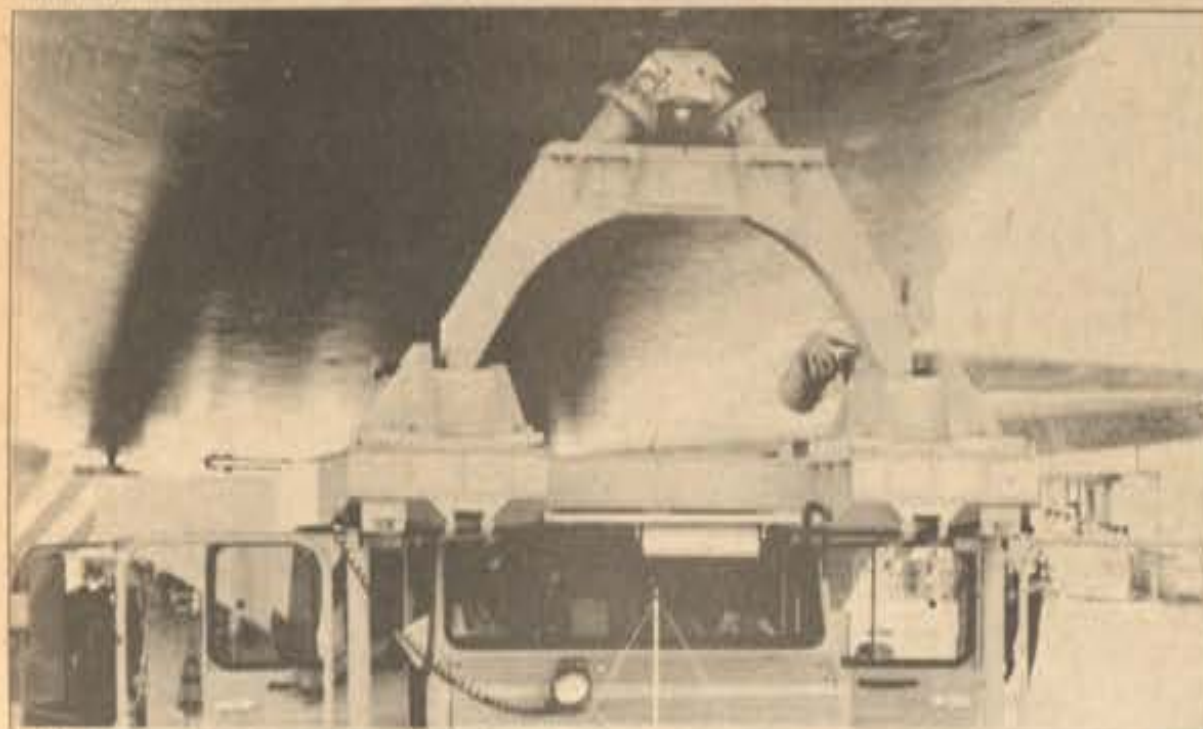
The final major improvement in the processing flow is the ability to manufacture the thermal protection tiles at KSC. The Thermal Protection System Facility was designed to provide a better turnaround period for the Shuttles. Previously the tiles had to be shipped from California.

This caused for a delay of a couple of days that could be critical if damage occurred on the pad prior to launch. Each of the tiles are of individual design and must be custom cut for the desired position on the orbiter. An orbiter has approximately 24,300 tiles externally.

The future will see the opening of the Launch Complex 39 Operations Support Building. The six-story building began construction in September 1988 and expected to be completed by mid-1990. The building will house an estimated 1,700 Shuttle en-



After all these years... The large mobile launcher platform (MLP) used in today's Shuttle program is the result of modifying the Apollo launch platforms. A third MLP recently joined the fleet.



Wide load... The orbiter transporter is one of the recent enhancements added to aid in shuttle processing at the Kennedy Space Center. The vehicle is shown debuting under *Discovery* in October and allows the orbiter to be moved without deploying the landing gear.

gineering and operations personnel from contractors. Many of these are currently working out of temporary offices scattered about the VAB area.

The processing flow at KSC is getting ready for an ambitious schedule of Shuttle launches. The current enhancements are going to allow NASA to create a schedule that is comfortable to work with.

Currently, the schedule is as follows. *Columbia* will retrieve the Long Duration Exposure Facility this month. Lift off is set for the eighteenth. The next mission will occur in early February of 1990 and be dedicated to the Department of Defense. *Atlantis* will perform the mission.

March will provide a launch of significant scientific value. The Hubble Space Telescope is to be placed in orbit from *Discovery's* payload bay after launch on the 26th. *Columbia* will perform the next scientific mission in April. It will carry the Astro-1 Observatory.

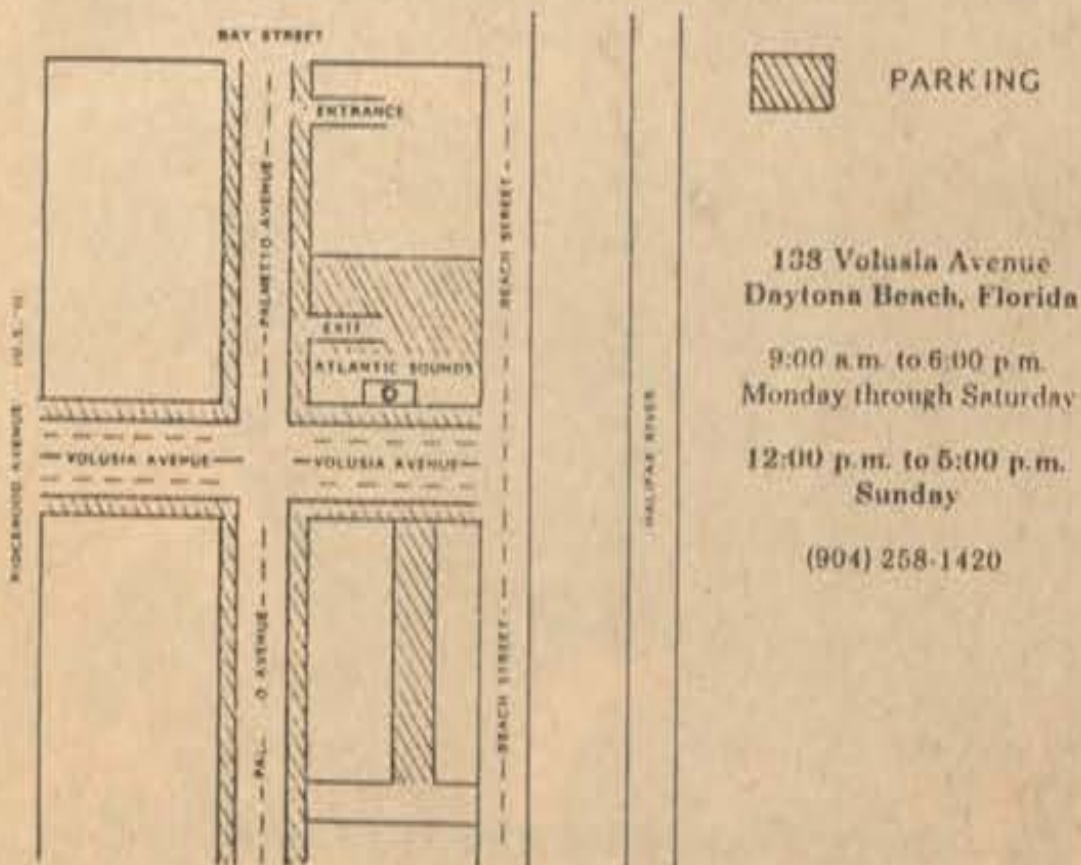
*Atlantis* and *Discovery* have missions planned for June and July respectively. *Columbia* will follow carrying Spacelab into orbit. The August mission will carry payload specialist Millie Hughes-Fulford, an Embry-Riddle trustee.

The observation satellites coming to show NASA's commitment to the exploration of our galaxy. The recent improvements will help the Shuttle processing flow and allow the agency to place many scientifically important payloads into orbit. Some of these payloads have been ready since the *Challenger* accident and are expensive to store.

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## Columbia to deploy last SYNCOM in the satellite series

by Chip Zodrow  
Space Technology Writer

Kennedy Space Center -- Columbia and its STS-32 flight have a dual purpose mission. The orbiter and its crew will not only retrieve a satellite, but they will also deploy the last of the SYNCOM satellites.

SYNCOM IV-5, also known as LEASAT 5, is the fifth in a series of communication satellites. The satellite is built by Hughes Communications Co. for the U.S. Navy.

The satellite will be deployed from Columbia during the second day of flight on orbit 17. A perigee kick motor will then be fired 45 minutes later to carry the satellite up to its geostationary parking orbit.

SYNCOM 1 was deployed on STS 51-A on Nov. 8, 1984 from Discovery on its third day of its mission. The mission also included the retrieval of two malfunctioning satellites.

SYNCOM 2 was deployed on STS 41-D on August 31, 1984 from Discovery and its six person crew. This mission was troubled by many mechanical breakdowns and led to a delay of over two months in its launch.

SYNCOM 3 was deployed on April 13, 1985 from Discovery again. After deployment the perigee kick motor used to carry the satellite to a higher orbit failed. The crew made several unsuccessful attempts in and out of the orbiter to repair the satellite. The spacecraft was repaired after over 12 hours of extravehicular activity on STS 51-I and is currently operational along with SYNCOM 1 and 2.

SYNCOM 4 was deployed on STS 51-I and reached geostationary orbit but then failed to operate.



Heading home...

The Long Duration Exposure Facility will be retrieved after five years in orbit. Here, it is pointed towards its starting point, the Kennedy Space Center.

## LDEF to be retrieved by Columbia soon

by Chip Zodrow  
Space Technology Writer

Kennedy Space Center -- Columbia and its five person crew will be retrieving a science platform in December known as LDEF (Long Duration Exposure Facility) which has been in orbit for over 5 years.

STS-32 with shuttle Columbia and a crew of five will retrieve LDEF on day four of the mission after first deploying the Navy's SYNCOM communication satellite.

The mission will be led by veteran commander Daniel Brandenstein along with pilot James Wetherbee and mission specialists Bonnie Dunbar, David Low and Manha Ivins.

Mission specialist Dunbar will use the remote manipulator arm to retrieve LDEF while Ivins photographs the retrieval and capture operations. The satellite will then be visually inspected and completely photographed before being stored in the cargo bay of the shuttle for a landing at Edwards Air Force Base. The satellite will remain in the cargo bay until it is returned

to the Kennedy Space Center on top of the 747 transport jet.

LDEF was originally planned to be in orbit for only one year, but the Challenger accident and the temporarily suspended shuttle flights resulted in a delay until this December in its retrieval.

The satellite has been losing altitude slowly over the years and was expected to stay safely in orbit until well into the 1990's if needed, but the increased activity in solar flares this last year have rapidly increased its rate of descent worrying scientists that the crucial experiments on board would be lost as it burned up in the atmosphere. Fortunately the satellite is falling slow enough and the shuttle manifest could be planned accordingly to retrieve LDEF with Columbia and the astronauts before the end of the year.

At the time of retrieval the satellite is expected to be just barely above 100 nautical miles high. If the satellite is any lower, the shuttle will not be able to catch the satellite due to the instabilities of space flight at

the low altitudes.

LDEF was originally deployed during April 1984 on STS 41-C by the orbiter Challenger. STS 41-C had two primary goals, the deployment of LDEF and the retrieval and repair of Solar Max. Solar Max is the satellite that reentered the atmosphere and burned up over the Indian Ocean last weekend.

The LDEF satellite is a 12 sided cylinder some 14 feet in diameter and 30 feet long. It weighs about 21,300 pounds and consists of 86 removable trays with 57 experiments.

With the extension of the LDEF mission some experiments have been degraded because of their increased exposure to the space environment, but for the majority, the extension has been extremely beneficial, especially to the Strategic Defense Initiative or Star Wars program. Future LDEF missions could remain in orbit up to 10 years with several main structures along with removable trays for astronauts to exchange when needed.

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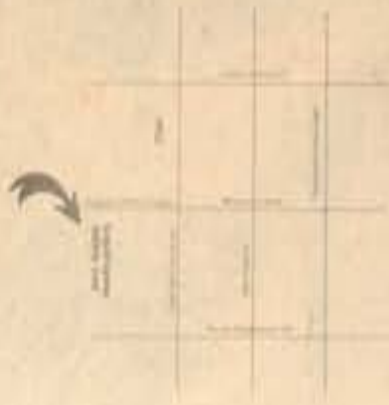
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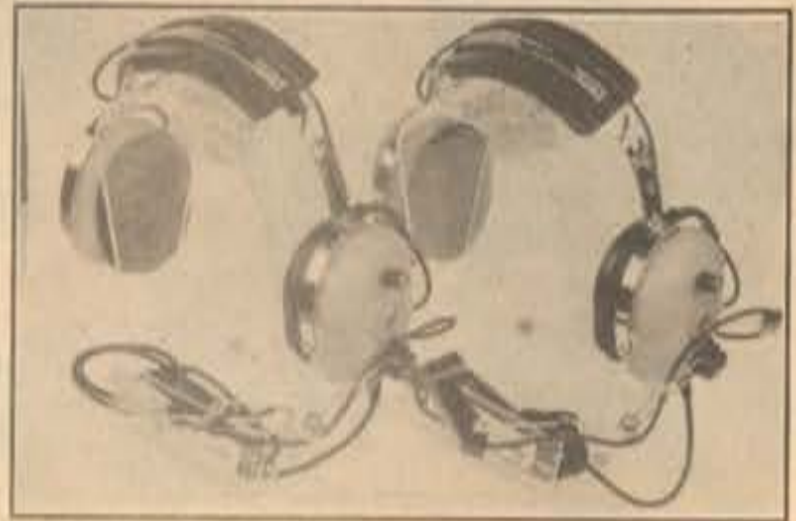
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# Gulfstream IV adds speed records to its credentials



Speedster...

Along with setting a new world speed record, the G-IV has been rewriting the standard of excellence for executive business travel.

by Brett E. Messimer  
Aeronautics Writer

The newest creation from Gulfstream Aerospace Corporation is the Gulfstream IV, which gained certification in April 1987. Since then, it has set 24 long-distance, high-speed records for business aircraft. Among these records is the fastest time to fly around the world westbound (45 hrs, 25 mins) and the fastest time eastbound (36 hrs, 8 mins). The Gulfstream IV accomplished this by a combination of a new wing design and a high thrust-to-weight ratio.

The new Gulfstream is similar in appearance to the G-III which preceded it, but is an entirely new aircraft. The G-IV incorporates a new wing design, new engines, and an integrated flight deck by Honeywell.

The new powerplants were designed by Rolls Royce specifically to deliver high thrust, good fuel economy, and comply with the latest noise requirements. The Rolls Royce Tay Mk. 611-8 powerplants are based on the core of the Spey Mk 555, and the fan is based on the RB-211, which powers many airliners. Since the Tay is based on many proven components, it achieves a hot-section inspection time of 3500 hours and a TBO of 7000 hours. The Tay also meets the stringent FAR Part 36 Stage 3 noise requirements and is certified to operate out the Washington D.C. airport (the na-

tions most noise sensitive airport) at night. The new wing of the G-IV was designed using the CADAM process. The wing is designed for high speed cruise, is 850 pounds lighter than the G-III's wing, holds 1000 pounds more fuel, and provides a more efficient lift-to-drag ratio. The engine nacells' position relative to the wing and body provides the Tay with turbulence-free airflow to provide for more efficient cruising.

**The new Gulfstream is similar in appearance to the G-III which preceded it, but is an entirely new aircraft...**

The integrated digital flight deck was designed and built by Honeywell, and is the most sophisticated flying today. The EFIS system utilizes ten CRTs to display flight instruments, engine and systems operations and parameters, and navigation information. The SPZ-8000 provides the aircraft's checklist item by item on one of the CRTs, and if a system fails, the SPZ-8000 automatically lists the emergency procedures to be followed. The 8000 has VNAV (Vertical NAVigation) capabilities, along with autothrottle and a V-speed/runway computer, which computes the runway required for the

aircraft's weight and temperature. Since the system is so advanced, the G-IV is certified for ILS Category II approaches.

Another important feature is the auxiliary power unit which provides power for the aircraft to use for self-starts and for powering the electrical system when the engines are not running.

The cabin retains all of the luxuriousness associated with earlier Gulfstreams. The cabin is 45 feet long and six feet high with a flat floor, making getting around in the cabin easier.

The G-IV uses steer-by-wire and brake-by-wire systems similar to those found in a military aircraft for better ground handling.

With all of the new changes, the performance has improved as well. The maximum cruise speed is now Mach .88 (598 mph) and normal cruise is Mach .80 (529 mph). The G-IV climbs at 4000 fpm and has a certified service ceiling of 45,000 feet, although the Gulfstream has been flown to 50,000 feet without problems. With a maximum weight of 73,200 pounds and a useful load of 30,700 pounds, the Gulfstream can fly for 5000 SM with a fuel load of 29,500 pounds.

Since the Gulfstream has excellent performance and a high useful load, different military applications have been found for it. These include electronic/optical surveillance, reconnaissance, maritime patrol, and medical evacuation.

## SAMSON joins Coast Guard in war on drugs

SACRAMENTO, Ca., Nov. 27—A U.S. Coast Guard HC-130H Hercules aircraft based at the Sacramento Air Station recently experimented with a new high tech surveillance system designed and built by Lockheed Aeronautical Systems Company-Georgia (LASC-Georgia). The system is called SAMSON, an acronym for Special Avionics Mission Strap-On Now.

The Coast Guard configuration is comprised of a pod mounted forward-looking infrared (FLIR) sensor, an optical data link, and control console with display and recorder that can be installed on the aircraft in as little as three hours. It works in conjunction with the aircraft's radar to give the operator superior target definition at close ranges during nighttime operations.

The Coast Guard has been using a demonstrator SAMSON system for crew training in advanced surveillance since October 23. However, by October 30, the Coast Guard began using the Samson System on actual drug interdiction missions at night.

"Night flight exercises using the SAMSON have demonstrated to our crews that the SAMSON system significantly enhances their overall mission effectiveness and could now provide around the clock capability," said one of the Sacramento Air Station pilots who had flown the SAMSON.

Coast Guard HC-130H long range surveillance crews seldom fly drug interdiction or fishery patrol missions at night because of the lack of nighttime surveillance capability. SAMSON provides this capability to operate both at night and in poor visibility.

"The demonstrations revealed the potential for increased mission capability," said a senior Coast Guard official.

The SAMSON demonstration was sponsored by U.S. Coast Guard Headquarters in Washington, D.C., with technical assistance from LASC-Georgia, Texas Instruments of Dallas, Texas, and Marquardt of Van Nuys, California.

Texas Instruments and Marquardt are suppliers for key components for

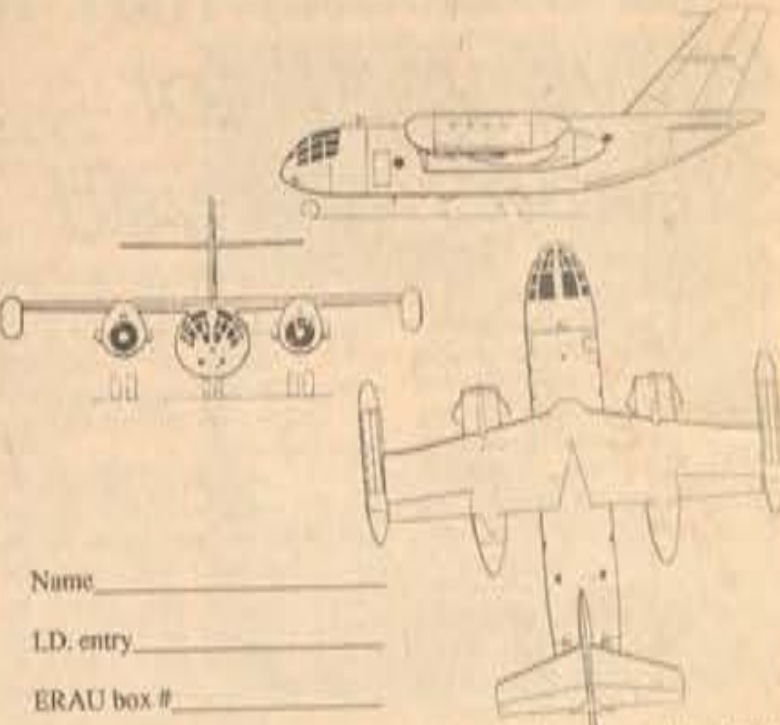
SAMSON. The Coast Guard plans to use the SAMSON at other air stations for night demonstrations and crew training in the near future.

The Coast Guard operates a fleet of 31 Lockheed C-130 airplanes capable of using the SAMSON.



Checking SAMSON out... Lockheed's Carl Weaver examines the FLIR (forward looking infrared radar) sensor of a SAMSON pod attached to a U.S. Coast Guard C-130.

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## Southwest weathers the competition

by Joe Cambron  
Diversions Editor

Southwest Airlines, though not very well known in this part of the country, maintains a reputation as the nation's most consistently profitable airline. Fun receives the greatest emphasis at the airline, however.

This philosophy is prevalent all the way from the top (Herb Kelleher) to the bottom. Often Mr. Kelleher can be seen dressed in T-shirt and shorts serving snacks on Southwest airplanes or cruising the gates at his airline's Dallas, Texas home.

Not only Mr. Kelleher dresses casually, all Southwest employees are tailored to reflect a relaxed enjoyable atmosphere. CEO Kelleher's strategy apparently has been a successful one.

Next year, Southwest's revenues will surpass \$1 billion, making the carrier a "major" airline. With the passing of this benchmark, Southwest will become the eleventh major carrier.

It was 1971, after several years of legal battles, that Kelleher launched the United States' first low-cost, low-fare carrier. The Dallas Love Field, recently vacated in favor of Dallas/Ft. Worth Airport, based intra state airline soon slashed fares in the face of its elder competition-Branniff and Texas International.

The company's initially triangle route system (Dallas-Love, Houston-Intercontinental Airport, and San Antonio) met with strong resistance from competitors unwilling to face a carrier not bound

under the constraints of the Civil Aeronautics Board-intra state carriers were exempt from their authority.

In the carrier's first year, the \$7 million airline lost \$3.7 million. Lamar Muse, an innovative ex-

**"Nobody's going to shoot Southwest Airlines out of the sky for a lousy \$13."**

ecutive who later started an airline in his own name, who served as President of the carrier presided over many days that the carrier's three new 737-200s carried fewer than 150 passengers total. When loads exceeded 600, Muse would phone Kelleher with the good news. These congratulatory calls were too few, however, and the company began to look headed for bankruptcy.

In a last ditch attempt to escape abyssal loads and large losses, the company moved its operations from Houston Intercontinental to Houston Hobby, an underutilized facility much like Love Field.

As the seventies moved on, fare wars ensued. Branniff lowered fares to only \$13 in an attempt to remove the pesky competitor from the skies. Southwest ads soon trumpeted, "Nobody's going to shoot Southwest Airlines out of the sky for a lousy \$13." Deep in the ad, however, Southwest mentioned that if the regular \$26 fare was paid, valuable gifts

would be distributed-gifts that turned out to be fifth of alcohol and leather ice-buckets. In the process, Southwest became the largest distributor of Crown and Smirnoff in the state of Texas.

After the fare wars and promotions ended, Southwest cruised on until deregulation struck in 1979. Southwest began to expand rapidly, still hounded, however, by Continental (Texas Int'l purchased Continental).

Expansion took the carrier only to other nearby destinations at first, but after Lubbock, Amarillo, New Orleans, El Paso, and Austin came other cities. Flights began to Phoenix, Los Angeles, San Francisco, Birmingham, and St. Louis.

Service to cities like Nashville, Detroit, Chicago, and Kansas City was instituted as well using Southwest's strategy of using underserved airports and routes.

Today, Southwest can land its aircraft in major cities and be ready to take off again in less than fifteen minutes, a record no other airline can compete with.

In the first quarter, Southwest managed loads (percentage of seats filled) of 65.4% on average, with passenger traffic rising 42.3% over last year. Capacity grew by only 12.4%.

Southwest expects to remain independent, and has even tried to purchase other carriers at times. Southwest's unique philosophy and successful implementation of that philosophy makes it well poised for its third decade of existence.



Flying high...

Southwest's new 737s allowed the airline to expand its system out of its traditional markets and into the northeast.

## Supersonic business jet nears drawing board

by Brett E. Messimer  
Aeronautics Writer

For several years, Gulfstream Aerospace Corporation, Rolls Royce Plc, Sukhoi Design Bureau and Lyulka Design Bureau have been working on a Supersonic Business Jet (SSBJ) separately. In 1988, the firms made their intentions public, and on June 5, 1989, Sukhoi Design Bureau announced that they were seeking a Western partner for their efforts, and that they were looking at Gulfstream in particular. On June 15, at the Paris International Air Salon, Gulfstream and Sukhoi met and made plans to work together on the SSBJ. Since then, the basic design goals and work load split have been made.

Gulfstream had originally started designs on a near sonic aircraft, based on the G-IV, that would cruise at Mach .95. This project was shelved when it was decided that the aircraft would not give enough extra performance and value to make it a worthwhile project. Soon afterwards, Gulfstream

started to work on a SSBJ proposal, and Rolls Royce worked with them to develop an engine to power it. On September 4, 1988 Gulfstream and Rolls publicly announced that they were designing a SSBJ.

A few years before Gulfstream and Rolls started working on the SSBJ

sonic aerodynamics, they would make a good team.

During the Paris International Air Salon, Gulfstream and Sukhoi met, and discussed the feasibility of becoming partners. The meeting was very successful and a Memorandum of Understanding (MOU) came out of

**The corporate version is a 100,000 pound aircraft that cruises at Mach 2.0 - 2.2...and costs approximately \$50 million...**

project, Sukhoi and Lyulka of the Soviet Union began work on their own SSBJ project. When they announced that they were looking for some partners on the project, they specified that they were interested in Gulfstream. Their reason for choosing Gulfstream was that with Gulfstream's research in the SSBJ project and their expertise in super-

the meeting. The MOU concerned "the feasibility of a joint venture in the development, manufacturing, and marketing of a business-type supersonic aircraft." Rolls and Lyulka have had similar meetings to define their cooperation on the engines.

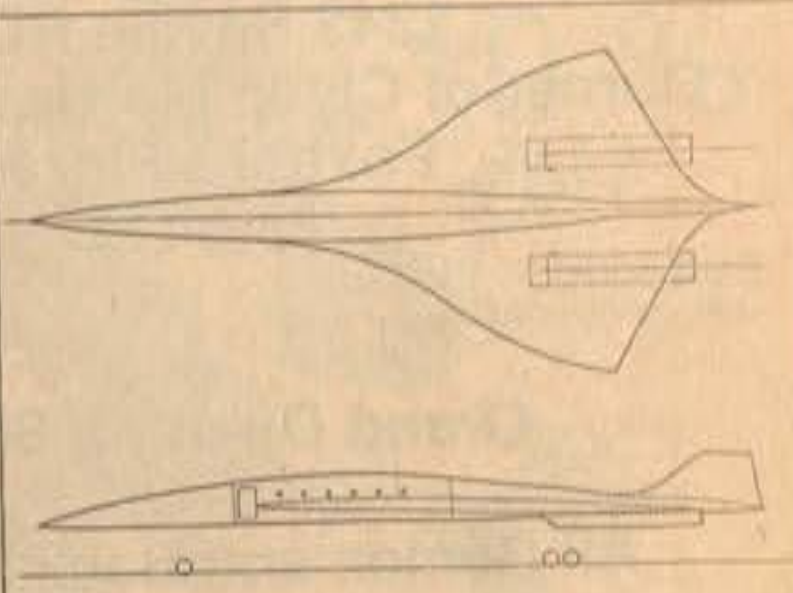
On September 14, the first meeting of the engineers, marketers, managers, and manufacturers was held

in Moscow. Three days later the teams left Moscow for more meetings held at Gulfstream in Savannah, Georgia. The meetings produced agreements to continue the individual design studies, and set the basic aircraft specifications. On November 15, the design teams will meet and determine the specifications of the aircraft.

The SSBJ preliminary concept for the corporate version is a 100,000 pound aircraft that cruises at Mach 2.0 - 2.2, carries 12 - 18 passengers with a crew of 2, a range of 5000 SM and costs approximately \$50 million. The "Mini-Airliner" is the same except the weight is 200,000 pounds, passenger complements is 50 - 60 and the cost has not been decided.

The work split has been determined to be as such: Sukhoi is responsible for the structural design, airframe manufacture, and Soviet certification; Gulfstream is responsible for the aircraft systems and avionics, interior complement, sales effort, product

see SSBJ, page 20



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Speedy executive...

The proposed super-sonic business jet is breaking new ground in business aviation as well as U.S. - Soviet relations since it is a joint effort between Gulfstream and Sukhoi.



# Magellan moves closer to Venus

by Josh Mussal  
Space Technology Writer

Following a successful Space Shuttle launch and deployment from *Atlantis* on May 4, the *Magellan* spacecraft is well on its way to its destination of Venus. *Magellan* is on a 15 month cruise to map more than 70 percent of the surface.

As of November 15, the *Magellan* spacecraft is



### Observing...

This artist's conception shows the *Magellan* spacecraft's mapping and transmission sequences.

## Active year for Shuttle reviewed

by Josh Mussal  
Space Technology Writer

NASA celebrated a very successful year in space, with the first full year of shuttle activity since 1985. The first mission of the year, and the third mission since the *Challenger* accident, was STS-29, *Discovery*. Launched on March 13, the mission lasted for four days, 23 hours, 39 minutes, 40 seconds. The mission, commanded by Michael L. Coats, pilot Guy S. Gardner, and mission specialists Richard M. Mullane, Jerry L. Ross, and William M. Shepherd placed the Tracking and Data Relay Satellite (TDRS)-D into orbit and conducted many experiments within the orbiter, including two Shuttle Student Involvement Projects (SSIP) experiments. The first experiment tested the effects of weightlessness in space

shuttle flight on the healing of bone fractures. The second experiment brought chicken embryos on to the shuttle to examine their development in space. The mission ended on March 18 at runway 22 at Edwards Air Force Base, California.

The second flight of 1989, STS-30, with the orbiter *Atlantis* saw the launch of a planetary probe, for the first time in many years. Launched May 4 by commander David M. Walker, pilot Ronald J. Grabe, and mission specialists Norman E. Thagard, Mary L. Cleave, and Mark C. Lee, the mission lasted four days, 57 minutes, 30 seconds. On board and deployed was the *Magellan* spacecraft, which is now on its way to Venus. Other experiments included Fluids Experiment Apparatus,

see SPACE, page 20

more than 91,944,943 miles from Earth. Its current geocentric velocity is 71,242 mph or 79,225 mph, in heliocentric orbit, relative to the sun. It takes controllers at the Jet Propulsion Laboratory 8 minutes, 14 seconds to relay data to the spacecraft on one-way light time. The spacecraft passed through the perihelion of its orbit on October 7, and is now returning to the orbit of Earth.

On board the spacecraft, all systems are functioning as expected except for a star scanner and gyro problems. At the present time, there are no problems related to the star scanner but, it will be necessary to correct the problem when it approaches Venus. Because of the excessive attitude drifts, due to the star scanner, an erratic gyro was switched out of its current function. There is no real problem, since there are four on board gyros to provide triple redundancy in the pitch and yaw axis and double redundancy in the roll axis.

Throughout the months of August, September and October, intense solar ac-

tivity was experienced which resulted in approximately six percent solar panel degradation to date. An active sun was anticipated, however, in sizing the solar panels, a margin of 35 percent was added into the size.

On a typical day, the spacecraft team goes through a daily ritual of monitoring the spacecraft, analyzing telemetry, predicting performance and planning for upcoming events. The spacecraft team engineers in Denver first check the status of the spacecraft's six major subsystems: command and data, power, attitude control, telecommunications, propulsion, and thermal. The team discusses the status of the systems and decides how to analyze and correct a problem, if one should arise.

After the meeting, engineers perform a telemetry analysis and performance prediction for each of the six subsystems, using software developed over the past five years. This entails receiving the last 24 hours of data, which is analyzed and then stored for later reference in the mission.

The balance of the day consists of planning for future "uploads" of command sequences to the spacecraft. Every two weeks, engineers upload a new set of commands that will run to the next upload.

On board are more than 3500 people traveling along with *Magellan*. They are travelling along in the form of signatures on a tiny piece of microfilm mounted on the spacecraft. The signatures are from the many NASA, Jet Propulsion Laboratory and industry participants who have worked on the project.



### To the stars...

*Galileo* was one of the year's successful satellites. It was deployed from *Atlantis* in October.



### Remembering...

The Astronaut Memorial will be placed on the Kennedy Space Center. The spending of project funds has concerned many people lately.

## Astronaut Memorial funds scrutinized

by Jose Luis Vazquez Jr.  
Space Technology Writer

Many people feel the need to build or dedicate monuments and memorials to fallen heroes. Psychologically, it helps us deal with our grief and there is nothing wrong with that, except of course on how you get the money to build the memorial. Three years ago a handful of businessmen decided they were going to honor the seven *Challenger* astronauts and seven other astronauts who lost their lives while in the pursuit of bringing space closer to Earth.

The non-profit organization, the Astronauts Memorial Foundation, is now questioned about the funds that it receives and on what they are spent. Most of the funds are received from the sale of *Challenger* license tags to Florida motorists at \$15 each. So far more than \$7.6 million has been raised. Other fund raisers like the *Challenger* 5K run which is held at over four different locations in Florida with a registration fee of \$8 per person is another source of income, and let's not forget the contributions from private citizens and companies around the country.

But not all the money raised is

helping build the memorial, a mirror-finished granite structure which is expected to rival the privately financed, \$7 million Vietnam Memorial in Washington, D.C. What started out as a volunteer organization evolved into a costly bureaucracy at taxpayer expense and free from government scrutiny. The organization now has 11 employed workers earning an average of \$31,863 a year with the highest paid official, Chris Shove, earning \$75,000 annually. Staff travel expenses totaled \$60,000 after the first two years but are projected to increase to \$150,000 this year.

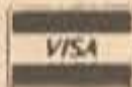
Groundbreaking for the \$5 million, 42.5-foot tall monument took place at the Kennedy Space Center last October before the Space Shuttle *Atlantis* lifted-off carrying the *Galileo* Probe into space. The memorial is scheduled to be completed next year.

Some state officials want the books to be reviewed by the state since the foundation is audited only by a private firm. Others say that since enough money has been raised to build the memorial that the organization should be preparing to shut down. But now the state-fi-

see FUNDS, page 20

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# Rocket fuel from Martian air

by **Erinn Moore**  
Space Technology Writer

In the highly technical plans of manned flights to Mars, fuel has always been a big problem. The requirement of launching a spacecraft to and from Mars would take 120 tons of propellant, an enormous load for most rocket engines of today to lift.

One way to make the job a lot easier would be to launch the ship with enough fuel for a one way trip and refuel for the trip back. Now a team of propellant specialists is developing a piece of hardware that would make outer space gas stations possible by allowing rocket fuel to be manufactured on Mars.

In 1977, engineers Warren Dowler and Robert Ash of

the Jet Propulsion Laboratory in Pasadena, California discovered that the atmosphere of Mars is teeming with oxygen; the principal ingredient in rocket fuel.

Although oxygen is not abundant on Mars, carbon dioxide is. They believe that with the right equipment, astronauts could separate all the oxygen they need from the carbon dioxide atmosphere.

The plan worked out by the engineers is this: the Martian atmosphere would be drawn into a processor and heated to 1800 degrees. This would cause a small breakdown in the atmosphere freeing some oxygen atoms, leaving a mix of oxygen and carbon monoxide. The oxygen would be separated by zirconium membrane, which attracts ionized atoms of the gas. Finally, the oxygen would be liquefied and stored in refrigerated tanks.

According to *Discovery* magazine, Ash finally built a prototype of his Martian gas station last year. The prototype was built with funds from NASA and a private grant. The machine is only dials, tubes, and canisters, but it works none the less.

"We start with a tank of simulated Martian atmosphere," says Ash, "and then we run it through the machine. So far, for every cubic foot of Mars air we process, we get a tenth of a cubic foot of oxygen. Ultimately we would like to get two and a half times that."

If Ash's goal is reached there would be many applications of his invention. When NASA sends a probe to Mars in the future, if an oxygen refinery were sent along, it could spend the time producing oxygen while the probe travels over Mars. When a manned Mars mission occurs, a refinery could be sent a year in advance and when the astronauts arrive on Mars, oxygen would be waiting.

"As we establish permanent bases on the moon and Mars," says Frank Marin of NASA's Office of Exploration, "we'll need to live off the land, refineries will be indispensable when we're not just traveling to distant bodies but living on them."



NASA photo

### Future fuel...

The red planet may provide a source of rocket fuel. Scientists believe they can formulate it from the Martian atmosphere.



NASA photo

# Apollo 8 formed Armstrong's stepping stone

by **Derrick Seays**  
Space Technology Editor

More than 20 years ago, a man's foot touched the surface of another heavenly body for the first time. Although Neil Armstrong will be known as the first man on the moon, the crew of Apollo 8 were the first men to view the back side of our moon.

Frank Borman, James Lovell, and William Anders all spent the Christmas of 1968 away from home, actually far away. They left the Earth on December 21, 1968 and headed for the planet's only natural satellite, the moon.

Their mission was the first manned flight to orbit a body other than Earth. It was designed to test the abilities of the Apollo craft and its return from the moon.

The crew came within 70 miles of the surface and were able to observe the features of the moon that are unobservable from the Earth.

After ten orbits, a burn from behind the moon sent the craft towards Earth and relieved controllers in Houston. The main objectives had been completed.

After 147 hours of spaceflight, the crew was recovered in the Pacific Ocean by the USS *Yorktown*. This flight verified the flight trajectories for the upcoming Apollo missions and was the stepping stone for Armstrong's infamous step, three flights later.

### One small step...

Neil Armstrong placed his foot on the moon in 1969, but before he could, Apollo 8 evaluated the spacecraft systems.

# Solar Max falls to Earth

by **Michael Fried**  
Space Technology Writer

The Solar Max satellite met its fate last Saturday as it burned up upon reentry into the Earth's atmosphere.

The reentry occurred at 5:26 a.m. with debris, falling in a 500 mile long path south of Sri Lanka. There was no conformation of the debris amount because there were no confirmed sightings in the daylight reentry.

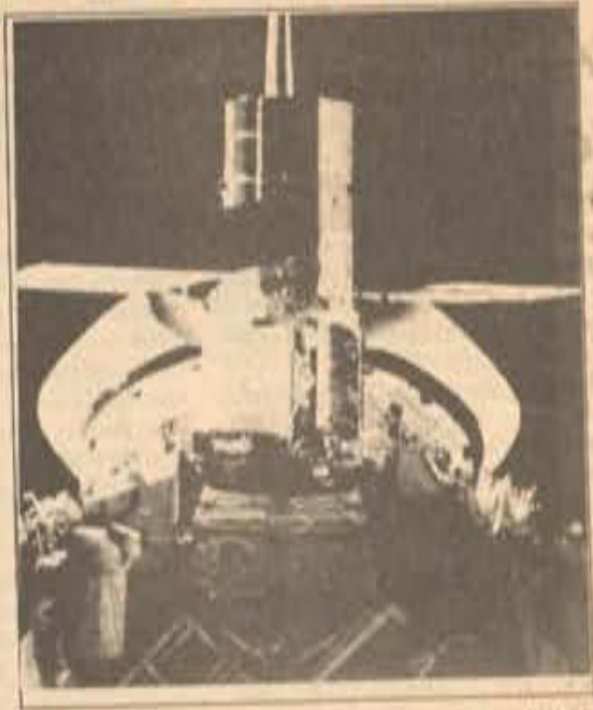
The Solar Max Satellite was launched in 1980 and made history when it was repaired in orbit by the space shuttle in 1984. The impressive data sent back to Earth made the Satellite well worth the effort.

Detected from space were solar flares, comets and most importantly almost a complete solar cycle.

The U.S. Space Command at Colorado Springs was responsible for the tracking of the satellite. Predicting the exact time and location of impact proved to be a difficult task dictated by the change in parameters, such as vehicle drag and atmospheric conditions.

The satellite began its fall from an altitude of 356 miles when it first began service. Earlier in the week NASA jettisoned the solar panels in an attempt to reduce the debris surviving reentry. That event only hampered the Space Command's efforts as they had to re-calculate predicted reentry times.

Famous reentry's in the past include the U.S. Skylab in the 70's and a Soviet satellite hitting Canada the land mass of Canada.



NASA photo

### No more...

Solar Maximum burned up in re-entry last weekend after more than ten years of use.



NASA photo

### Ready and waiting...

Columbia rolled out to Pad 39-A in preparation for its December 18 launch. The mission will deploy a SYNCOM satellite and retrieve LEDF.

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# SSBJ

(continued from page 17)

support, and Free-World certification; a combined effort on research & development and airframe design; and Rolls Royce and Lyulka are accountable for the development and production of the engines.

Called the G VI Su 21, Gulfstream and Sukhoi have set the design phase to continue through early 1990, with the flight testing and production coming in mid 1990.

# Letters

(continued from page 2)

the dignity of the human person created in the image and likeness of God. (Genesis, 1:27)

A recognition of this human dignity is also a part of our civil tradition in the United States and is expressed in the Declaration of our nation's Independence!

"All men are created equal in their human dignity and endowed by their creator with inalienable rights to Life, Liberty, and the pursuit of Happiness."

This also applies to the handicapped, the elderly, the retarded and the unborn babies!

Mary Rita Crowe  
2052 E. Main St., Apt. 74  
Rochester, NY 14609

# Instruction

To the Editor:

A major issue facing higher education today is the crowding out effect research has at larger institutions around the nation. It seems that Professors are being reviewed by their research and publishing talents and not their ability to teach. Fortunately, at Embry-Riddle, we have not seen research grow into the beast it has grown to at some larger schools.

The faculty at ERAU are generally available to help students by offering office hours. It is the concept of office hours which makes education truly balanced. Anyone is welcome to speak one on one with their instructor. This is a valuable tool and it should be used more by undergraduate students here at ERAU.

At a recent convention on Student Services in Kissimmee, FL, sponsored by "National On Campus Report", the keynote speaker proposed the problem of research outweighing the educational process. He said, "Undergraduate students are referred to as

# Angel

(continued from page 1)

budget. After weeks of deliberation, the SGA finally arrived at the idea of choosing Pick-An-Angel as their service project. The idea came to Linda Johnstone as she was sitting at an Orlando McDonalds eating breakfast. "I saw the display and thought it would be great if I could afford to buy one of those children something. Then I thought that even though I couldn't, the SGA could," said Linda Johnstone. Members of the SGA were enthusiastic about the project.

"I want to be able to watch those kids when they get their presents. It will be neat to watch their faces," said Alma Rodriguez.

Picking the Angels took only 15 minutes, but the feeling of what was accomplished by those mere minutes could be the happiness of twelve children. Ms. Johnstone said, "I know how important Christmas is to kids. That's what Christmas is all about—giving, especially where kids are concerned."

# Funds

(continued from page 18)

nanced organization is helping to entice a Japanese corporation interested in developing a private, \$100 million research park in Orlando, promoting legislators to ask whether the group has lost sight of its mission.

It would be sad to see that what started out as a non-profit organization set out to honor those that risked and lost their lives for the conquest of space would now turn into an organization that uses the same excuse of building a memorial to keep a salary-paying job. Is the money of the Floridian people, and other Americans as well, being put to work towards a memorial to honor the astronauts that we so much respect, or is it being used for the personal gain of those that said they were going to build the memorial?



# ODK

(continued from page 7)

leadership to a group of leaders is tough, even dangerous." He spoke of the bumper sticker that says "Lead, follow or get out of the way" and related it to the way leaders should let it become part of their lives. He gave a lively and interesting tribute to Jack R. Hunt and all of the accomplishments which make the man a source of inspiration for today's leaders. He said "He (Jack R. Hunt) was able to inspire an awful lot of people... with his fierce dedication to the school... His spirit guided the institution through all kinds of growth." With his his speech

and his tribute to Mr. Hunt, Eric Doten gave the members of the Icarus Circle a model to follow in their endeavors.

Mr. Doten's speech was followed by Dr. Wheeler's benediction, and thus ended the twenty-fifth induction of members into Omnicron Delta Kappa's Icarus Circle.

"It went really well. It's the most I've ever seen inducted. The kind of people this organization attracts usually don't have the time to participate," said Ian

"Every year we get more and more inductees," said Tricia Leon.

# Space

(continued from page 18)

Mesoscale lightning experiments, and the Air Force Maui optical site experiment. The mission terminated on May 8, with a safe landing at Edwards Air Force Base.

The third space flight for NASA, STS-28, with the shuttle *Columbia* was also the second mission dedicated to the Department of Defense, since the return to flight. As with all DOD flight, little information on the flight is relayed to the general public. The mission took place August 8-13 on a five day, 1 hour, 51 second flight that reportedly place a spy satellite into orbit. The all military crew consisted of commander Brewster H. Shaw, pilot Richard N. Richards, and mission specialists David C. Leestma, James C. Adamson, and Mark N. Brown.

STS-34 with the orbiter *Atlantis*, was a mission filled with controversy, even before its launch. The controversy was over 48 pounds of radio-active plutonium. For the first time in the space agency's history, a mission was almost stopped because of a court injunction ruling it unsafe, fortunately, this never occurred. The mission finally got underway on October 18 with commander Donald E. Williams, pilot Michael J. McCulley, and mission specialists Shannon W. Lucid, Ellen S. Baker and Franklin R. Chang-Diez. The main objective of the mission was to deploy the *Galileo* deep space probe, which is now on its way, in a round about way, to explore Jupiter. The mission lasted four days, 23 hours, 40 minutes with a safe landing on October 23.

The most recent mission was the most spectacular of the year, so far. The orbiter *Discovery* was launched on November 22 at 7:23 pm for the first night launch since the *Challenger* accident. STS-33 was the second DOD launch of the year, and although the true mission objectives are not know, it has been reported that a spy satellite was deployed. The crew consisted of commander Frederick D. Gregory, Pilot John Blaha, and mission specialists F. Story Musgrave, Kathryn C. Thornton, and Manley L. Carter, Jr. The mission lasted 5 days, 6 minutes and 46 seconds and ended safely on November 21 with a sunset landing, after one day and one extra orbit was added because of unfavorable wind conditions at Edwards Air Force Base.

The Final Shuttle launch of the decade is scheduled to lift-off with *Columbia* on December 18 for a ten day mission to deploy the Syncom IV-5 satellite and the retrieval of the Long Duration Exposure Facility.

Besides the launch of six space shuttle missions, NASA was kept busy by the naming of OV-105, the *Endeavour*, which will replace *Challenger*. The *Endeavour* is now under construction by Rockwell International and is presently scheduled for its maiden flight in 1992. NASA also had success with the *Voyager II* deep space probe, as it clarified the unknown world of Neptune. As the year comes to an end, NASA looks ahead to the next decade with Space Station *Freedom*, a fourth orbiter added to the current fleet and uncovering the secrets of our universe with exploration to other planets.

# F-18

(continued from page 1)

ground weapons. The aircraft has a maximum level speed of more than Mach 1.8, and a combat ceiling of 50,000 feet.

The F/A 18-C differs from the previous A and B models in that it is able to carry four imaging infrared Maverick missiles, has provisions for both self-protection airborne jamming and reconnaissance equipment, and a new mission computer with higher processing speed and double the memory.

All F/A 18-C's currently being built have all weather night attack capability, including provisions for pilot's night vision goggles, a Hughes Aircraft thermal imaging navigation set which presents TV like images on a head-up display, and a Honeywell color digital moving map system.

Naval Aviation Club President Patrick J. Cassidy said that the purpose of the organization is to further Naval Aviation on campus through various activities which inform and motivate students. The club holds bi-monthly meetings hosting guest speakers, participates in the intramural program, has access to the P-3, S-3, and F/A 18 simulators in Jacksonville, and continues to bring interesting aircraft displays to the flight line. The club also recently toured the aircraft carrier *Saratoga*.

Surprisingly, Embry Riddle continues to lead all Colleges and Universities in the country, except the Naval Academy, in supplying pilots to the Navy, even though there is no Navy ROTC on campus.

Many thanks go out to Capt. Melville Byington, U.S. Navy (ret.), for his efforts in attaining the numerous static displays and presentations that the Naval Aviation Club promotes throughout the year. Captain Byington is the Chairman of the Aeronautical Science Department and the faculty advisor for the Naval Aviation Club.

# Haze

(continued from page 1)

Being aware of ROTC's proclivity for theatrical production, Mr. Anikin at first wrote off the thoughts that went through his mind until "the cadets lowered their prisoner, who ceased struggling for the moment and sat against a light pole in a stupor. His captors started to tie him to the pole in clear view of the large cadet formation." It was then that Mr. Anikin became worried that the student was being abused, unable to resist because of intoxication or simply the binding.

"He began to struggle again, and prevented the attempts to tie him securely to the pole. He tried to crawl around the pole and behind the bushes, but the rope around his neck held him to the pole."

Apparently things became worse as the female cadets walked away. "One of the guys remained to humiliate the guy by putting a traffic cone between the victim's legs in an obscene position.... One of the active duty officers only feet away did nothing to stop it," Mr. Anikin continued.

According to Mr. Anikin, a female officer, a senior cadet, and dozens of ROTC cadets all did nothing to stop the incident, until "two of the captors returned and began to untie the prisoner, as he began to vomit."

Mr. Anikin was sufficiently disturbed by his witnessing of the situation that he felt it necessary to bring it to the attention of the students. In substantiating his view of the incident, Mr. Anikin also provided the names of several other witnesses to the accident, including an instructor.

Air Force ROTC officials were contacted by this reporter concerning the alleged incident. A call placed to Captain Harold, a duty officer and ROTC instructor, yielded little other than a promise to return the call with a comment from Colonel Hinckley, if he was available and

# Shuttle

(continued from page 1)

stowed in the payload bay of *Discovery*. This did not deter tourists and residents from gathering to witness the illuminating event. Many witnesses were able to track the vehicle just prior to Main Engine Cut Off (MECO). This occurs after eight minutes of flight, putting the orbiter almost 600 nautical miles downrange and approaching speeds of 20,000 feet per second.

NASA Administrator Richard Truly said in regards to the lift off, "beautiful site, I forgot just how spectacular they (night launches) were." The last night launch of a Space Shuttle occurred late in 1985.

The mission was dedicated to the DOD and the payload classified. Usually the DOD deploys Soviet observation satellites which must pass over the land mass. To do this, an inclination of 45 degrees or better is required. *Discovery's* flight path would have headed up the Atlantic coast for this type of a mission. The orbiter instead headed easterly, putting it on track for a mission with an approximate inclination of 28 degrees.

This suggests a typical communication satellite was put into orbit. Many people believe that the satellite

# Joe

(continued from page 25)

little bit of southern rock.

"The Forgotten" has two parts. The intro to the song has a delayed guitar progression and ends with a keyboard part. The second part of the song has a creepy kind of sound to it.

The guitar sweeps your emotions back and forth with its delayed tone. The main guitar track is backed with a breathtakingly slow rhythm.

"The Bells of Lal" also is in two parts. Stu Hamm also plays some gut wrenching bass on this song. The beginning guitar intro fades in and out of this section with the volume. When the second part begins, the guitar continues with the addition of a really funky rhythm section.

The last song, "Into the Light", has a soft textural sound, just like the first song. It has a really pretty background, but a forceful drum and bass track. He ends the song much the same way he starts it. It is one of the prettiest songs on the album.

The production quality on this album is much better than that of his previous albums. Of course it helps to have money.

But this album had more than just that. Tom Scholz from Boston helped him on this album. Tom Scholz, who is an graduate from M.I.T. and runs Scholz R & D, a company who develops equipment for recording and shaping sound and music, probably had a lot to do with shaping the sound of the album.

Hopefully, Joe Satriani will go on tour in the near future. His crowds are now made of a wide range of fans from past success. He has increased the popularity of the instrumental along with his own popularity. The album is a must buy.

# Blood

(continued from page 1)

dinate the blood drives which are regularly held here on campus. Before the days of Sigma Chi's exclusive involvement with the blood drives, they were coordinated here on campus by different organizations who "took turns" coordinating them. Since then, Sigma Chi has aided the nurses and volunteers of the Red Cross with the process of collecting blood without fail.

Besides helping the Red Cross personnel with registering donors, directing the lines of people donating and serving as escorts for donors, many of the members of Sigma Chi were donors themselves.

Jamie Mercado, who coordinates public relations for Sigma Chi, said, "Even though we are a social organization we feel a responsibility to be involved in the community. It's a chance to help a lot of people and it's worth getting involved in."

Even the nurses themselves have been active in the blood drive. Nurse Diane Conway has donated over 500 units of blood in her lifetime.

For those who gave blood on Thursday or Friday, the process began with filling out a registration form asking for identification and health information. When registering, donors were required to read a pamphlet on the AIDS virus. After filling out the form and signing it, the potential donor was then taken to a screening room where a nurse took his/her temperature, pulse rate and blood pressure and asked more health related questions. During the screening process, the nurse also tested a person's blood for an adequate level of hemoglobin.

All of the testing done by the nurses of the Red Cross assures that the procedure is perfectly safe. There is absolutely no danger of contracting any disease of viral infections from donating.

After giving acceptable answers to the questions asked and receiving normal readings on all tests, the donors were then taken to a room filled with long, fold-out chairs. Here, the donors laid down and surrendered an arm to give a little under a pint of blood which would all go to the Red Cross Blood Center.

The donors were then advised to drink liquids and eat the cookies or crackers provided by the Red Cross.

Dave Mulligan, who gave blood on Thursday, said, "It wasn't all that bad. This was my thirteenth time. I do it for the community."

Brian Frost, another donor, said, "I was in the hospital once and I realize the need for it (blood)."

A few people who have been donating blood for years, have found new ways to make their blood useful to others. Dave Spaller, a member of Sigma Chi, will be undergoing a process called plateletpheresis. The process takes about two hours and involves taking whole blood and dividing it up into its component parts in order to extract a substance called platelets which are necessary for the treatment of cancer and leukemia patients.

According to Carol LaFlam, a resource consultant for the Red Cross, the blood donated by students in these regular blood drives, because they are donated to the Red Cross Blood Center, is available to anyone who needs it.

Unfortunately, the participation here at Embry-Riddle has been under its potential since the construction of the Morrison's office in the Riddle Center. In times gone by, the blood drives were held in the place where the Morrison's office now stands, and because of the additional space afforded by the location, had been able to collect greater quantities of blood.

Ms. LaFlam said, "We're not as visible as we used to be and that has hurt us."

Besides not having as much student participation, faculty participation in the blood drives has been rather sparse. Dave Spaller said, "I was disappointed that no faculty or staff have participated in this blood drive."

The job of collecting blood is difficult. Carol LaFlam said, "It's very frustrating when 60% of the population is qualified to donate, but only 3% participate on a regular basis. And 85% of the population will use it in their lifetime."

In reference to Embry-Riddle's participation in the blood drives of the past, Ms. LaFlam said, "We couldn't facilitate the hospitals in the area without Embry-Riddle's cooperation. Students in the area make up approximately 25% of all donations made."

# Dad

(continued from page 24)

them together and which make irrevocable John's devotion to his father's last days.

It is this same new-found devotion which causes John to reevaluate the role his father had played in the lives of everyone in the family.

His father, however, does not want to die. Jake Treemont wants most passionately to live—not to just simply function physically.

John says, "He went to a job he hated everyday. He never asked why or whether or not he liked it. He just did it." So in regard to his father's final days he says, "I want to be there... to mark the moment." The movie focuses on the sense of life Jake Treemont was able to find and share with his family—the awakening from slumber of his thirst for life and its bounty.

In essence, *Dad* is a plea to all people to search for the beauty and joy in life." (\*\*\*\*)

# Joe

(continued from page 25)

will eavesdrop on the Soviet and Chinese communications. The DOD will not confirm this fact.

According to sources, deployment of the payload by the Mission Specialists; Story Musgrave, Manley Carter, and Kathryn Thornton, probably occurred on the sixth orbit. The details of the mission were not made available to the press. Because the mission would encompass Thanksgiving, NASA had stowed a turkey feast in the crew's food pantry. Diced turkey and gravy was one of the items included in the snack locker.

STS-33 was to end just as it had began, in a cloak of darkness. The landing of *Discovery* was to occur the night of the 27th. Strong crosswinds at Edwards Air Force Base in California caused the touchdown to be delayed for one day. This gave rise to a one orbit delay the following day.

On the 79th orbit of *Discovery*, the burns were made to land. Frederick D. Gregory, the first black commander, guided the late evening landing and touchdown on runway 4 at Edwards occurred Tuesday the 28th at 7:30 pm. *Discovery* was piloted by John Blaha. He piloted STS-29 earlier this year.

Contributions to this article made by Greg Naccarato.)



# The Avion rates the albums in a decade of rock and roll

by Joe Cambron  
Diversions Editor

With the spawning of the "MTV Age," fans of rock and roll have grown from just listening to music on their F.M. radios and cassette players to actually seeing music by means of video representation. At the same time, advancements in optical storage technology have enabled music to be stored digitally for the masses. These advancements of both quality and a broadened scope have fit well into the "information age." It is here that customers always demand more from their products, and only on occasion achieve their goal.

Even if consumers still are not satisfied with the crispness of digital sound, and that seems unlikely, they almost have to be impressed by the music of the 1980s. Bands as diverse as Guns N' Roses and Milli Vanilli now haunt the charts without looking back at the last ten years of great rock and roll.

Below is at least one more perspective on the best ten albums of the last decade.

## Avion Diversions Poll: Album of the Decade

1. Joshua Tree - 450 points (10.1%)
2. Thriller - 420 points (9.5%)
3. Synchronicity - 390 points (8.8%)
4. War - 270 points (6.1%)
5. Brothers in Arms - 150 points (3.4%)
6. Kiss Me - 150 points (3.4%)
7. Mountain Man - 150 points (3.4%)
8. New Year's Day - 150 points (3.4%)
9. Seeds of Love - 150 points (3.4%)
10. So - 150 points (3.4%)

This information was assessed through a random poll of the Embry-Riddle student body.

While commenting on injustice and religion, the Irish band caught up most of young America in a sold out tour to promote the release of this 1987 album.

Other power singles included on the album include: "I Still Haven't Found What I'm Looking For", "With or Without You", "Bullet the Blue Sky", and "In God's Country."



Pete Jockimo

### Favorite Albums:

1. Black Celebration
2. Uplift Molo Party Plan
3. The Queen is Dead
4. Especially For You
5. Once Bitten

### #4 Brothers in Arms

1985 also brought Dire Straits their first solid hit since "Sultans of Swing." With the aid of MTV, Dire Straits hit the Top 40 hard with "Money for Nothing." The song that featured Sting chanting "I want my MTV" to the sounds of Mark Knopfler's unchallenged skill at playing the guitar.

Other popular songs featured on the album include "So Far Away", "Walk of Life", and the record's somber title track.

### #5 Life's Rich Pageant

The following year allowed R.E.M. to build upon the success of *Fables of the Reconstruction* with *Life's Rich Pageant*. With the passing

years, R.E.M. seemed only to improve with L.R.S.'s (their record company) production values. Therefore, audibility takes great strides with this album as Michael Stipe's

enunciation also improves to form an easy decoding of R.E.M.'s often eclectic lyrics.

"Cuyhoga" takes the listener in a childhood trip down a neighborhood river as Stipe, Pete Buck, Bill Berry, and Mike Mills recall a simpler time. "These Days" proclaims "We are young, we are concerned, we are hope... despite the times." Each song on this album helps weave a tapestry of where we have been, where we are, and where we must go.

### #6 So

Another important release in 1986 was Peter Gabriel's enormously successful *So*. From the disc's first track "Red Rain" to its last "This is the Picture" Peter Gabriel maintains an emotional involvement magnified by excellent production values credited to Daniel Lanois. "Sledgehammer" which holds perhaps an unbreakable record as MTV's most innovative video ever put Peter Gabriel's career back into high gear, at least for a while. More recently Gabriel has kept his musical career quiet except in a controversial outing as a contributor to the *Last Temptation of Christ* soundtrack. The hit "Big Time" is also included on the album. Another Peter Gabriel comeback into rock and roll is expected soon with a new album.



Sonja Mitdbo

### Favorite Albums:

1. Joshua Tree
2. Hysteria
3. Substance
4. So
5. Hunting High and

### #7 Diesel and Dust

Australian band Midnight Oil released their most appetizing album ever in 1987. Easily rivaling Crocodile Dundee as the "Land Down Under's" most entertaining import, Midnight Oil's surprisingly pop style fit well into American culture.

"Beds Are Burning" and "The Dead Heart" were the disc's most popular songs, although other songs probably reflect the style and culture of Australian music. "Whiah" is particularly indicative of the new sound band's like Midnight Oil bring to America.

### #8 Seacrow

Prior to 1985 many Americans thought of John Cougar Mellencamp as simply a runner up to Bruce Springsteen in the genre of folksy, down to earth songwriting. The album reached as high as number two after it debuted in August 1985. The Indiana born rocker kept a constant string of singles flowing from the album, culminating in the rural anthem, "Small Town."

### #9 Purple Rain

With the recent success of *Batman* and the film's Prince soundtrack, it is easy to forget the 1984 success of *Purple Rain*. The successful movie, probably the best of Prince's career, spawned an enormously successful Prince tour prompting him to "retire from touring." Prince has returned to touring numerous times, however, and in fact is now on the road. Songs off the 1984 soundtrack album include: "Let's Go Crazy", "When Doves Cry", "I Would Die 4 U", and the infamous "Darling Nikki."

### #10 90125

Yes's 1983 album featured a reuniting of band members Jon Anderson and Tony Kaye with consistent Yes member Christopher Squire and Freshman South African guitarist Trevor Rabin. Alan White also returned to play drums on the Trevor Horn produced album.

Not coincidentally, it was producer Trevor Horn who replaced Anderson on Yes's last album, *Drama*. Surprisingly it was this melding of old and new that produced an enormously successful album. Trevor Rabin's influx of new ideas in the band is often credited for its revival.

"It Can Happen", "Owner of a Lonely Heart", "Hold On", and "Changes" all feature a style unique to eighties Yes music. A new band (Anderson, Bruford, Wakeman, and

Howe) sounding more like a law firm in title contains much of the old Yes sound, while a few minute introduction to Rabin's new LP evokes happy memories of 90125.

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# The Avion takes a look back at a decade of fine film

by Joe Cambron  
Diversions Editor

The decade of the eighties has brought more than new records to Hollywood box office totals. The eighties' movie audience has witnessed some of the greatest milestones in the history of the cinema.

Not all of these advancements have been in the areas of technology, however. Acting quality has not only remained consistent, but has increased steadily. Whether it be the major studio's willingness to increase film budgets or simply improve upon already mind-boggling special effects, movies are cleaner and more realistic than ever.

Though criticism is the American pastime, one frequently practiced by this reviewer, the last decade is almost inarguably one of the motion picture business' best. Below is one person's humble opinion of the decade's finest films.

## Avion Diversions Poll: Film of the Decade Results

- |  |   |
|--|---|
| 1. Platoon - 450 points (7.9%)                 | 6. Predator - 270 points (4.8%)           |
| 2. Raiders of the Lost Ark - 450 points (7.9%) | 7. Top Gun - 270 points (4.8%)            |
| 3. Lethal Weapon - 390 points (6.9%)           | 8. Return of the Jedi - 240 points (4.2%) |
| 4. Terminator - 390 points (6.9%)              | 9. Lethal Weapon II - 210 points (3.7%)   |
| 5. Batman - 270 points (4.8%)                  | 10. Dead Poets Society - 180              |

This information was assessed through a random poll of the Embry-Riddle student body.

### Number 1-Raising Arizona

This 1987 comedy was written by Joel and Ethan Coen (who also directed the film). Its bizarre sense of campy humor and electrifying camera technique brought a unique experience to the big screen without a big budget. The film's stars include several actors whose careers were irrevocably changed for the better. Nicholas Cage the film's male lead went on to roles in films such as Moonstruck. Holly Hunter who plays Cage's policewoman wife saw her career brighten as she landed the lead in the Academy Award winning Broadcast News. John Goodman (now husband to TV's Rosanne) plays a devious escaped prisoner.

### Number 2-Roxanne

Another 1987 comedy featured Steve Martin and Daryl Hannah in a modern day story of Cyrano de Bergerac. Steve Martin, it seems, is forced to live life vicariously as a result of his insecurities. In helping his fellow fireman, Rick Rossovich, in a romance with Hannah, Steve Martin learns that looks are not everything.

Roxanne is one of few both critical and financial successes in Steve Martin's often stagnant movie career.



Cheryl Bond

### Favorite Movies:

1. Raiders of the Lost Ark
2. Back to the Future
3. Big
4. Look Who's Talking

Since the film, however, Martin shined brightly in *Plains, Trains, and Automobiles* and *Parenthood*. Notable performances are also turned in by Shelley Duvall and *Real People* alumni Fred Willard.

### Number 3-Aliens

1986 brought the James Cameron (*Abyss*) sequel to 1979's often imitated *Alien*. *Aliens* represents several important milestones in film making. First, it is one of the world's few recorded cases of a sequel improving upon its original. Second, the film sparked an excellent acting resurgence by macho female Sigourney Weaver. Third, the film still stands alone as one of the big screen's most suspenseful movies. Although many science fiction altruists have criticized the film series for combining their craft with the genre of horror, certainly the cause of science fiction has only been advanced by the wide appeal of this film.

Other actors appearing in the movie include Paul Riser and Michael Biehn. This Oscar winning flick is guaranteed to cause bad dreams if viewed in the wee-hours.

### Number 4-Broadcast News

Holly Hunter, Albert Brooks, and William Hurt provide the sparks in 1988's startling three sided romance of love and journalism. The film swept the 1987 New York Film Critics Awards winning Best Picture, Best Screenplay, Best Actress, Best Actor, and Best Director.

William Hurt plays the handsome, hollow network anchor, with Holly Hunter as his fanatically substance over style producer. Her long friend (Albert Brooks), however, is a dedicated reporter which must face a competition he cannot win. The film was writ-

ten, produced, and directed by James L. Brooks (*Terms of Endearment*). Like *Terms*, the film features the work, albeit little, of screen magnet Jack Nicholson.

### Number 5-The Right Stuff

It was in 1983 that Phillip Kaufman's epic allowed audiences to trace air travel from Chuck Yeager to 1969's "the Eagle has landed." Tom Wolfe's book inspired this lengthy adaptation that is never boring despite its over three hour running time. The evigorating and patriotic film features the work of Sam Shephard, Scott Glenn, Ed Harris (*Abyss*), Dennis Quaid (*The Big Easy*), Jeff Goldblum, Harry Shearer, and Barbara Hershey. Film buffs may even be able to spot the real Chuck Yeager in a short cameo performance.

### Number 6-Who Framed Roger Rabbit

Number five receives its ranking mostly for its innovative and ground breaking style, though nostalgia and a well crafted script are also to its credit. After years of half-hearted attempts at melding cartoons with real life in everything from cereal commercials to Bugs Bunny cartoons, Director Robert Zemeckis (*Back to the Future*) and the folks at Disney studios cooked up a savory dish of "wabbit". Roger Rabbit (the voice of comedian Charles Fleisher) takes both veteran actor Bob Hoskins and a bewildered audience through a peculiar melding of reality and "toons." The 1988 classic even offers Kathleen Turner providing the sultry voice of Jessica Rabbit.

### Number 7-Mississippi Burning

The decade's final year brought a national opening for one of the decade's most eye-opening looks at racism in the rural South. Gene Hackman plays an FBI agent sent to Mississippi after several black youths and a car of civil rights activists turn up missing



Tim Kincanon

### Favorite Movies:

1. Raiders of the Lost Ark
2. Top Gun

under mysterious circumstances. His superior, William DaFoe, is a "by the book" agent with seniority, but not necessarily the hard-nosed anger to deal in kind with the crazed citizens who constantly incite violence throughout Mississippi. A corrupt police department and wanton destruction nearly force the FBI into retreat, at least until DaFoe relents to Hackman's more draconian methods.

The film which was under extremely limited release at the end of 1988 was nominated for Best Picture by the Motion Picture Association of Arts and Sciences.

### Number 8-2010

Another sequel receiving honors is the 1984 follow up to the exceptional 1968 film-*2001 A Space Odyssey*. Roy Scheider and John Lithgow star in the movie version of the Arthur C. Clarke (who has a cameo in the film) book. The all too realistic scenario finds the Soviets and the Americans making their way toward Jupiter in a joint mission at the same time as tensions mount in Central America.

Arthur C. Clarke's prophetic nature holds true as the United States now considers a joint mission to Mars with our Soviet friends.

### Number 9-Full Metal Jacket

Stanley Kubrick, the Director of many notable films including both *2001* and *2010*, released another not so subtle masterpiece in 1987. Matthew Modine and Adam Baldwin play privates plucked from their civilian existence and placed in basic training prior to a grueling tour in Vietnam. The all to realistic look at basic training is enlivened by the use of real life Drill Instructor Lee Ermye.

The trudge through Vietnam is even less inspiring of the patriotism usually associated with war. The film leaves a bitter taste, and a needed fear of war.

### Number 10-Charlies of Fire

Finally, 1981 was the debut of an unforgettable film with a soundtrack that will live on even past the film's disintegration. Ben Cross and Ian Charleson who portray athletes in the 1924 Olympics were nearly the film's only members to not receive Oscars. Best Picture, Script, Soundtrack (Vangelis), and Costume Oscars were won by the movie.



Brent Zieverink

### Favorite Movies:

1. Fast Times
2. Back to the Future
3. Raiders of the Lost Ark

# Matt Groening expands to prime time with *The Simpsons*

by Stephen Eiser  
Special to the Avion

Life in hell is Friday at midnight on the Hollywood Freeway in Los Angeles, California, a new face in a new town and your car breaks down in the fast lane.

"It was truly a hellish experience," recalls Matt Groening, creator of the *Life in Hell* cartoon strip. Now, ten years later, he is traveling the fast lane of Hollywood again as he fine tunes his newest endeavor, *The Simpsons*, a half-hour cartoon scheduled on Fox Broadcasting in early 1990.

Groening is bespectacled and burly. As he sits in his office on the back lot of 20th Century Fox studios, he is surrounded by a compendium of black and white character sketches and color cells tracing television's newest family. "The Simpsons look like they grew up in a dark basement. They didn't get much sunlight," he says as he lets out a laugh.

Although Groening's status as a popular cartoonist is a complete fluke, mutant toons remain his forte. From Binky, the bulging eyed, buck toothed rabbit and his illegitimate one-eyed son, Bongo, featured in his *Life in Hell* strip, to *The Simpsons*, his crudely drawn family headed by a nuclear safety inspector and his wife, a some-time roller-skating car hop, Groening's characters are a reflection of life in the raw.

Groening, a three-time Emmy nominee for his work on *The Simpsons*, never planned a career as a professional cartoonist, it just worked out that way. His artistic impulses were originally therapeutic, a cathartic cleansing, he explains. "My cartoons are self help through doodling. I guess you could call it doodling to enlightenment."

His "very disturbed" creations introspectively chisel away at common perception about life and death, relationships and love by humorously and boldly exposing the darker aspects of those experiences.

Purging personal anxieties rarely translates into commercial success, but in Groening's case, his comic revelations entertain and annoy millions of people each week. His *Life in Hell* strip appears in more than 160 newspapers

and *The Simpsons* are three-year veterans of Fox's Emmy award-winning *The Tracey Ullman Show*.

His wide appeal lies in his comic approach to "the stuff that keeps you lying awake at 2 o'clock in the morning. To me, it's the scariest stuff but it's the funniest stuff."

And it is exactly that kind of "stuff" that caught the eye of three-time Academy Award winner James L. Brooks, whose screen credits include such highly acclaimed movies as *Terms of Endearment* and *Broadcast News*. Brooks was seeking an animator for *The Tracey Ullman Show*, and the underground cartoonist was his man.

Suddenly Groening, who spent a decade living month by month barely gathering enough money to pay his \$350-a-month rent, found himself deep in the belly of Hollywood working with its most creative forces on a "hallucination of a sitcom."

With the success of the cartoon running as short segments on the *Ullman* show, Executive Producer Brooks pulled together Groening and Sam Simon, producer of *Cheers* to develop *The Simpsons* as a half-hour venture. The Hollywood veterans gathered a stable of writers

from the hottest comedies on television, among them *Saturday Night Live*, *Late Night with David Letterman*, and *It's Garry Shandling Show*, to script the action. Groening is the self described "wild card" of the bunch, "I'm the guy whose ticket to stardom is called *Life in Hell*... You're talking to someone who spent ten years working by himself in a garage with a drawing board and it's truly refreshing to be able to talk to real human beings," he said.

Now, surrounded by more than 40 animators and working out of the same production office that gave birth to *Beany and Cecil*, Groening is conspiring to create a program unlike any ever seen before.

"It's such a huge collaboration of so many talents. Great animators, great actors, great writers, great producers, people who have done brilliant things with live action

television. James L. Brooks is bringing his sensibilities to an animated television cartoon and that's just never been done before."

With *The Simpsons*, Groening hopes to find an audience that becomes so intrigued and involved with the hilarity of each episode that they forget they are watching a cartoon.

"I don't want people to think they're going to see another Garfield or Smurf's special. This is a show with sophisticated stories, dialogue and ideas. The kids are going to love it for the colors and the action or the side gags and the belching and adults are going to appreciate the strange story turns and the smarter than usual dialogue. "It's wild, weird, and different," he said.

Different is important to Groening who is unsatisfied with most of television's offerings, calling today's sitcoms generally "sour and hostile." He criticizes the classics of the genre, among them the *Flintstones* and the *Jetsons*, saying expectations were left unfulfilled because of poor writing. "I've watched thousands of hours of those shows and I've had time to think about it my whole life."

So, he capitalizes on what he perceives as his predecessor's shortcomings as he forges to create his neo-toon of the 90s.

In an upcoming *Simpson's* Christmas special, the show features far from traditional yuletide fare, with plot lines involving stolen Christmas trees, dog racing and alternative lyrics to "Jingle Bells" while the show focuses on son Bart's (an anagram for Brut) desire to receive a tattoo for the holidays.

"The surprising thing about television cartoons is how much the same they have been for the most part. There are so many different and wild things you can do with the medium. I feel very lucky that it's been left so

wide open because we do all sorts of crazy things," he said.

"*The Simpsons* have all the classic elements of the sitcom that we've seen again and again. The family and the relationships working together, but we're taking advantage of the animation and doing very specific behavioral observations and wild exaggeration. It's great fun and I've found that you can do the most outrageous things if you do it with a big smile."

"I just want to draw cartoons and make people laugh and of course subvert the natural order of things," he said. No one nor thing is scared and beyond attack from his sordid subversions, including Groening's family.

Homer Simpson, the nuclear power pop who tosses rods of Uranium 235 from his car window on the way home from work is named after Groening's father Homer. The Simpsons sisters are named after his real siblings and mother Simpson is named after Mother Groening.

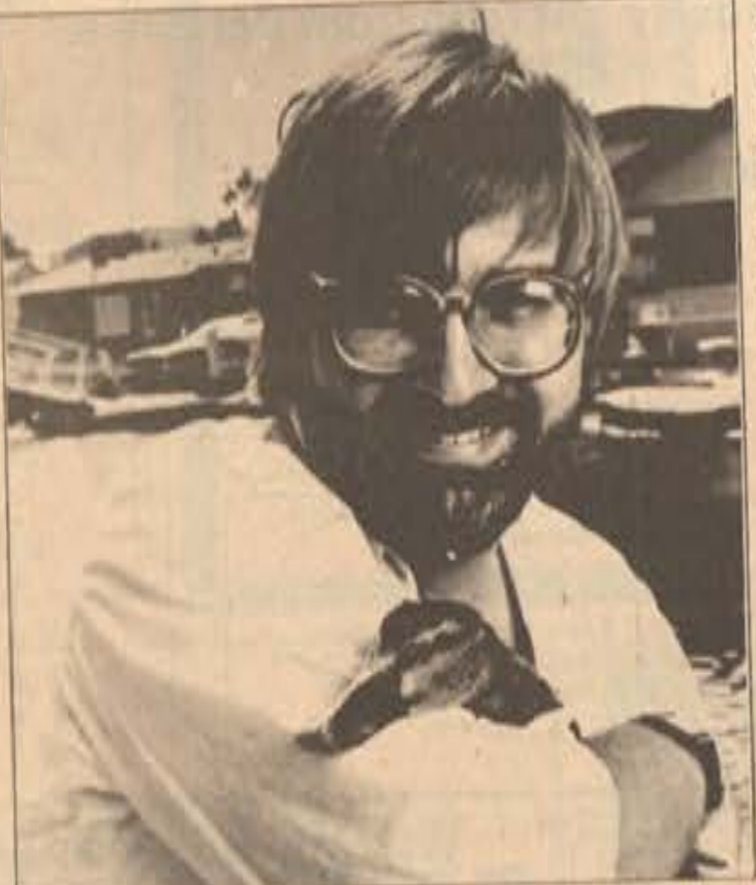
Now, as the Simpsons tackle life in primetime, the animator is expressing a few regrets.

"I don't know if I'd do it again," he said, pondering his decision to name his cartoon characters after his real family. "I mean, how would you like to be the real Fred Flintstone, right?"

Last March, Groening tried to make amends and undo any familial damage that may have been caused by his unpredictable comic urges. He named his newborn son, Homer, of course.

He hopes it helps soothe any sting his father or family may feel.

But these days the only sting he feels comes from waiting for his damage to debut. Anxious time for Groening, who admits, "at this point it would be nice to hear the audience react. We know how it entertains us, but the question is will it entertain the rest of the country." So he waits, and works and waits and works with his mutant loved ones from the nuclear age.



Life in Hell...  
Matt Groening, creator of *Life in Hell* and the *Simpsons*, is preparing for a new television show debuting in January.

**With *The Simpsons*, Groening hopes to find an audience that becomes so intrigued and involved with the hilarity of each episode that they forget they are watching a cartoon.**



THE SIMPSONS

### Television in Hell...

The *Simpsons* will bring cartoons back to prime time when their own show debuts. Currently, the *Simpsons* are featured on Tracey Ullman show.



# The Avion writes a letter home from New Orleans

Dear Mom,  
This week myself and five other members of the Avion spent four days and four nights in New Orleans for a journalism convention held by the Association of Collegiate Press Advisers. The trip began with a long and hair-raising drive to Orlando International Airport where we arrived less than ten minutes prior to departure time.

Things were not that simple, however. Our Photo Editor lost his briefcase on the shuttle, and for the first time we became acquainted first hand with the meaning of the "NON-transferable" stamp on all airline tickets. It seems that in our rush to leave, a late drop-off had left a recent addition with a ticket marked "Tammy." Being a male, Mike-the Sports Editor was soon apprehended under whatever suspicion was appropriate, at least until he offered to buy another ticket in hard cash.

Finally in the air, the Avion crew relaxed and second-guessed the pilot on a comfortable flight to Atlanta.

Our resident AMT professional even decided to rearrange the seatbelts for optimum comfort, in full compliance, of course, with the Federal Aviation Regulations.

After a suspect approach through choppy skies, our plane landed in beautiful Atlanta—the home of the stranded and the "bumped." Upon

landing a quick check of flight monitors netted a late flight and a trip to the lounge. During one meeting with an airline "professional", the question of weather was posed (it was pouring), receiving the answer, "There's a couple of tornadoes in the

lounge to help elapse our now three hour layover.

By 2 A.M., however, we were happily in New Orleans preparing for four days of learning and fun. The customary \$30 cabfare, plus tips of course, brought at least half of us to

like the New York convention in the Spring. The usual bums, vagrants, and thieves are to be expected, but through the filth and slime shone a little culture worthy of our time. So, off to Bourbon Street we went.

On Bourbon Street almost anything you need can be purchased, if your willing to take certain risks. The music, however, was enjoyable, but the drinks were expensive. Chorus of "All drinks triple to six dollars when the band starts" fill the room like the songs of bluebirds. Ahhh, capitalism.

The actual convention was an enjoyable one. Certainly, the students will notice the improvements to the paper when the new style debuts with January's first issue. All the staff hopes that the students realize how much work goes into providing Embry-Riddle with one of America's best college newspapers. Maybe if other students were willing to join us in our rewarding quest, the newspaper would be America's best college newspaper. It could happen, I think we are close.

The trip ended nicely with a party on Saturday and an afternoon flight on Sunday. A quick flight back to Orlando brought us to the reality of finishing a newspaper in only two days, but we did it. Like we always seem to.

See you soon,  
Joe Cambron

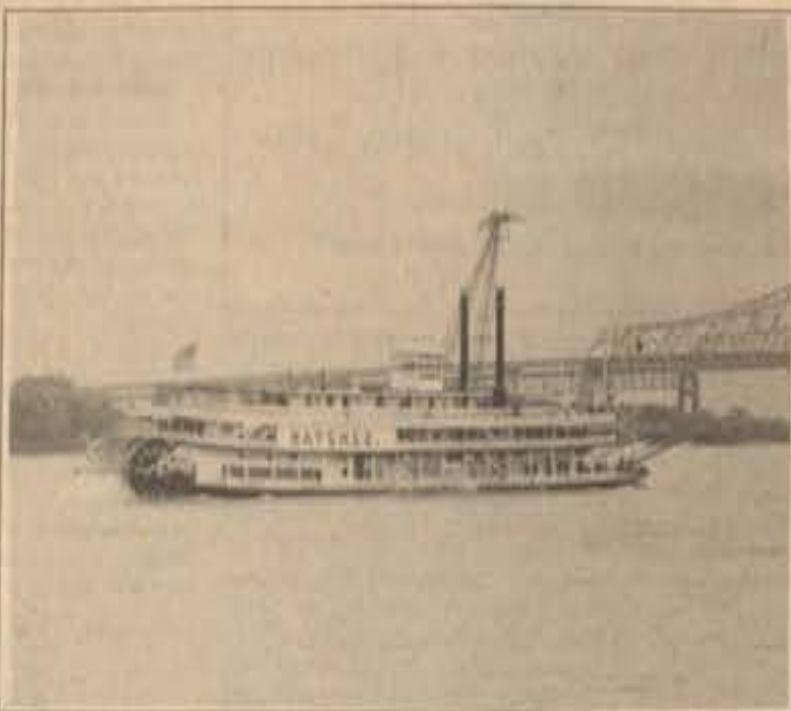


photo by Brian Clark

area, nothing to worry about unless you are going to Birmingham or NEW ORLEANS."

our hotel just in time for the breakfast we neglected to eat, sorry Mom.

Walking through New Orleans was an interesting experience not un-

Disconsolate, we slinked back to

# Dad highlights three generations of fatherhood

by Tina Matilla  
Copy Editor

Dad is the story of a man and his death. It sketches a picture shot through with charm, humor and an inherent sadness capable of bringing an audience to tears. Without the luxury of lame humor, the movie takes apart the curse of growing old and traces the path of a life that has become more burden than joy. Dad uses the universal theme of aging to ask the audience to face inward and examine the difference between a man's ability to physically function and a man's capacity to live.

In this movie, Jack Lemmon and Ted Danson give convincing performances which make both of their characters endearing yet real. Jack Lemmon gives the best performance of the cast portraying several different sides of one man with an ease seldom seen in other actors. He plays an invalid, a psychotic, a man truly healthy and alive and a man taking his last breaths with the unequalled force and ability.

The film features three men whose relationships to each other are nothing more than uneasy silences fraught with misunderstanding. It is the death of the eldest of the three that finally breaks the silence.

Jack Lemmon is Jake Treemont.

the aging man whose life has become a series of small routines in which he and his wife passively participate. His life had stretched into a one long, and endless streak in which he himself had no place. The beginning of the movie presents an old man walking slowly and dazedly behind his wife like a child unable to comprehend his relation to the world around him.

This basic inability to comprehend makes him incapable of performing even the simple task of dressing himself. It is this incapacity that brings first his son, John Treemont (Ted Danson) then his grandson, to his side when, Margaret, Jake's wife, is struck by a heart attack.

Almost immediately there is conflict between father and son. John, a corporate executive whose love of power and respect for money shattered his family life, cannot conceive of a life such as his father's. He cannot quite convince himself that the mumbling man who cannot find his pajamas is his father. His father's helplessness is almost more than John can stand.

Ironically, it is this helplessness that brings the son to the aid of the father. Together, they work toward achieving a level of activity, both mental and physical, which binds

see DAD, page 20

## Movie Rating System

- \*\*\*\*\* **In Flight**  
An excellent movie, worth seeing twice
- \*\*\*\* **Takeoff**  
A good movie, worth the money
- \*\*\* **Taxiing**  
A fair movie, worth seeing
- \*\* **At the Gate**  
Wait for the videotape
- \* **In the Ground**  
Not worth your time or money

## Top videocassette rentals

1. Rain Man
2. Beaches
3. Tequila Sunrise
4. The Naked Gun
5. Bill and Ted's Excellent Adventure
6. Her Alibi
7. Cousins

## New videocassette releases

- 12/7 Mesmerized- Jodie Foster and John Lithgow
- 12/7 See No Evil, Hear No Evil- Richard Pryor and Gene Wilder
- 12/7 Adventures of Baron Munchausen
- 12/14 When Harry Met Sally- Billy Crystal and Meg Ryan
- 12/14 Renegades

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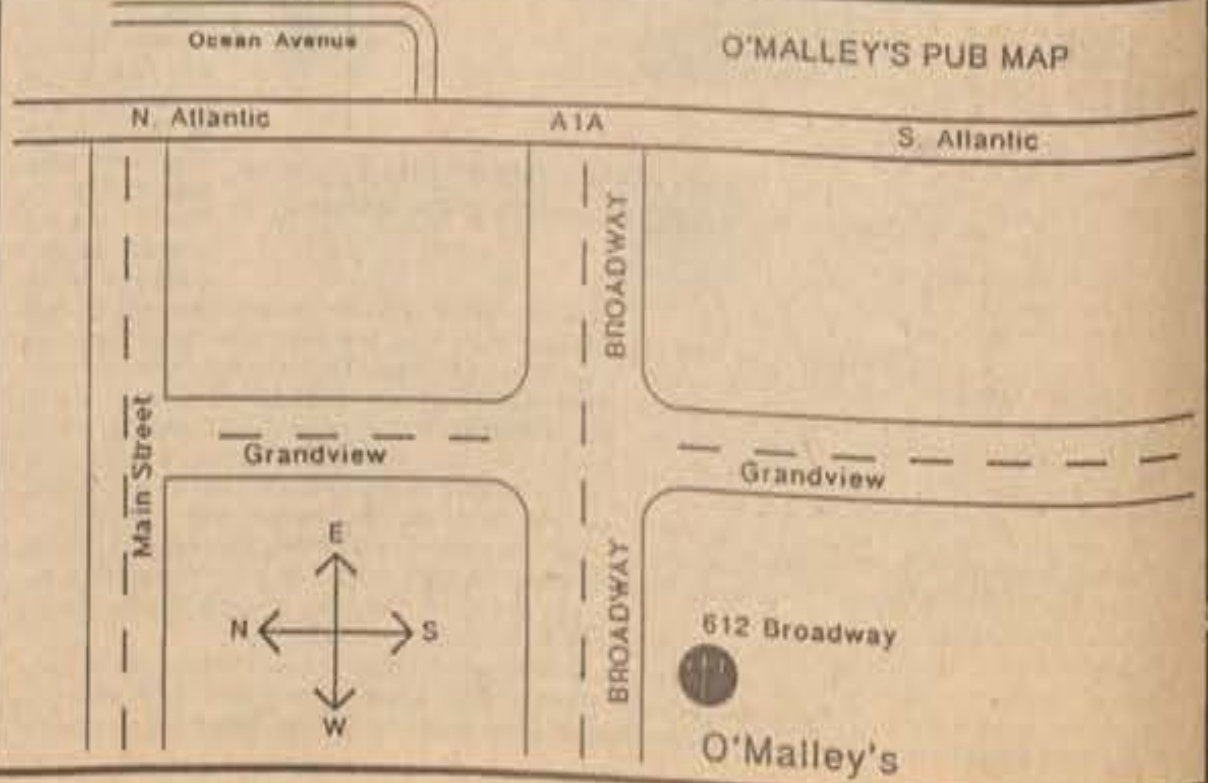
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# Back to the Future II prepares moviegoers for the upcoming III

by Joe Cambron  
Diversions Editor

The sequel to the enormously successful *Back to the Future* recently hit theaters in preparation for the Christmas moviegoing season. With Robert Zemeckis returning as Director, Michael J. Fox returning as a teenager lost in time, and Christopher Lloyd even returns as the wacky professor who developed a nuclear powered sportscar able to race through time.

In fact similarities between the sequel and the original are boundless, except in the notable absence of Lea Thompson as Fox's girlfriend and Crispin Glover as his father. The most glaring dearth of similarity, as with most sequels, is the lack of originality in the film. Though special effects wizardry bring the series to new heights, the complicated plot and dizzying effects often detracted from the actual film.

The movie begins as the last ended. The professor arrives in 1986 with a newly powered time machine and a desperate cry to help save Fox's future children. A new scene added to the sequence features Biff (of "Hello, McFly" fame) watching the craft gain altitude and disappear

in a sky full of sparks. Next, the McFly's and the Professor are bolting down a "high"-way above the earth's surface in their retooled De Lorean.

The professor then reveals that Marty's (Fox) child will be dared into a situation that will place him in jail, unless Marty helps him. Marty agrees and the pair begin to set in motion a series of reactions that end up damaging the past.

Marty, who had wished to return a sports almanac containing scores for the period from 1950 to 2000 to the Twentieth Century, agreed with the Professor that would be unethical. Biff, however, overhears their conversation and hijacks the time machine for just long enough to change all history and make himself the Donald Trump of an alternate reality.

To correct the problem, Marty and the Doctor must go

back to the 1950 as they did in the original movie.

Although not a bad film, inconsistencies cropped up that took away from the film's purpose. The Professor, for instance, seemed concerned constantly that he might disrupt the flow of time, thus changing reality. It was him, however, that suggested visiting the future to change the events in Marty's children's lives, thus changing the further future.

Another example is Biff's ability to operate the time machine considering the level of his characterized intelligence.

Another complaint about the film was its overt commercialization. Careful scanning of scenes will find brand names placed strategically, perhaps to have some sort of subliminal effect—some of the most obvious are Pepsi, Mafiel, USAir, Nike, and USA Today.

**The movie begins as the last ended. The professor arrives in 1986 with a newly powered time machine and a desperate cry to help save Fox's future children.**

# Joe Satriani solidifies his role as an unrivaled guitar master

by David Fekke  
Diversions Writer

A small minority of the rock groups and players have been able to get away with playing instrumentals or have been good enough. Every once in a while an artist with incredible talent has been able to bloom into the pop music industry with this talent. Joe Satriani is one of this small minority.

As far as being a virtuoso guitarist, he is currently sitting on the throne. In the sixties it was Jimi Hendrix, in the seventies it was David Gilmour, and now in the eighties and approaching the nineties, it is definitely Joe Satriani.

Joe got his first job playing in and touring in an unsuccessful rock band for about a year in the mid seventies. At this point he decided that he would try living in California. Once there, he struggled with many other musicians during the Disco period, a period we would all like to forget.

While he was struggling, he worked as a studio musician, and he taught guitar lessons at the same time. He had his first two albums in the early 1980s.

Greg Kihn heard one of Joe's first albums, and hired him to go on tour with him. His first success was with the album *Surfing with the Alien* in 1987. The single "Satch Boogie" soon spread across the country from that

album. One of his students, Steve Vai, who has played with Frank Zappa, Alkatraz, David Lee Roth, and most recently, with White Snake is one of his most noticeable students. So noticeable that Mick Jagger tried to hire him to go on tour. When Steve Vai declined he advised him to hire his former instructor, Joe Satriani.

When Joe went on tour with Mick Jagger, he had to play all of Keith Richards' stuff along with the all the guitar parts from Mick's solo album. Vernon Reid of Living Colour played all of the guitar parts on Mick's solo album.

After touring with Mick, he went on tour for himself here in the States. After he finished that tour he made a live album called *Dreaming number 11* in 1988.

And this year he just came out with his new album, *Flying in a Blue Dream*. This album is very different from Joe's normal instrumental format, in that he sings on six of the songs. Another thing that is unusual about this album is that there are eighteen tracks on the album.

On this album Joe plays the guitar, bass, banjo, keyboards, percussion, harmonica, as well as performing on vocals. He is accompanied by Jeff Campitelli, Bongo Bob Smith, and Simon Phillips on the drums.

The first track on this album is "Flying in a Blue Dream". It is a very

soothing instrumental. He uses the solo guitar track where the vocal track normally goes. The song starts out with an acoustic guitar. This track is heavily laid with keyboard in the background. It is a very good start for the album.

"The Mystical Potato Head Groove Thing" is the second track of the album. The music is weirder than the title. This is a little harder driven than his first song. It also has a really good rhythm guitar track.

The song "Can't Slow Down" is the

first song on the album in which Joe sings. The song has a very fast driven beat to it. The rhythm guitar and the drum track are excellent. Joe however could use a few singing lessons.

"Headless" is the first track on the album in which Joe uses the harmonica. The song is backed with a very mystical guitar playing.

The song "Strange" has a sound much like that of Prince. What the song lacks in musical integrity, he makes up for it with his (Joe's) playing. The singing is also very good on this track. The track also has a very good bass line provided by Berkeley graduate, Stuart Hamm.

"I Believe" is the prettiest track on the album. He uses arpeggiated guitar track along with a progressive sounding guitar track. The singing is very melodic. The lyrics on this are also very beautiful. The guitar solo has a very magical sound to it.

"One Big Rush" was previously released on the *Say Anything* sound track. This track is very upbeat and grabbing. The rhythm guitar and the drum beat are also intense. Again this instrumental is very moving in that the guitar track progresses from a standard riff towards many different branchings and then climbing again towards a gripping solo.

"Big Bad Moon" is the single from the album that has been released from the album. It sounds much like ZZ

Top. The harmonica is used periodically along with some slide guitar, as well as a real straight-forward rhythm. The vocal track however is very coarse.

The next song is called "The Feeling". The entire song is done on the banjo. This shows us how versatile Joe is. The song, however is very short. It only lasts 52 seconds.

"The Phone Call" is the funniest song on the album. The whole album is worth buying for this one song. The song has a country feel to it. The vocal track sounds like it was sung over on a real phone. A good example of one of the lines off this song is "Well, you look a yuppie and that's too bad. Yeah, it used to be funny but now it's sad."

"Day at the Beach" is another good track, one of the shorter instrumentals. It is basically a guitar track with a delay, but is played with a good progression.

The next track, "Back to Shala-Bal", runs in the same format as the songs on his *Surfing with the Alien* album. The playing is very upbeat. It is one of the best songs on the album.

The next song, "Ride" is the last song that Joe sings on. This track sounds almost like a Clapton tune. The song also uses the harmonica. This has many different rhythm guitar tracks on it. It goes funk, rock, and a

see JOE, page 20



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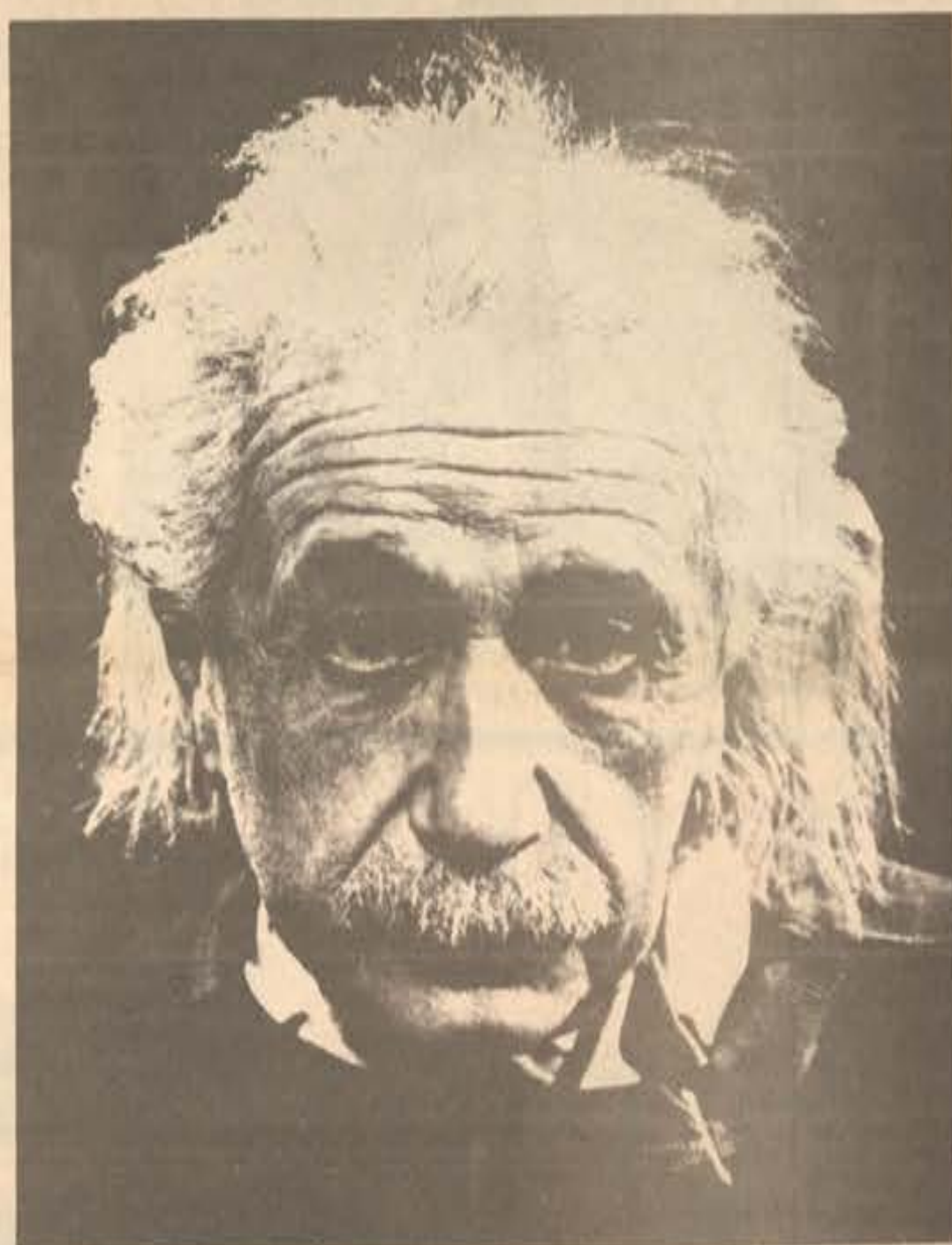


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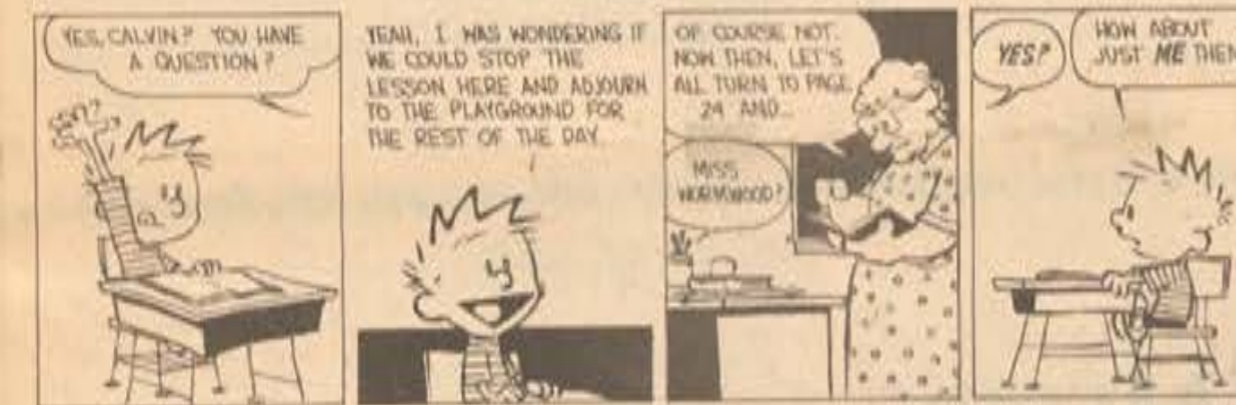
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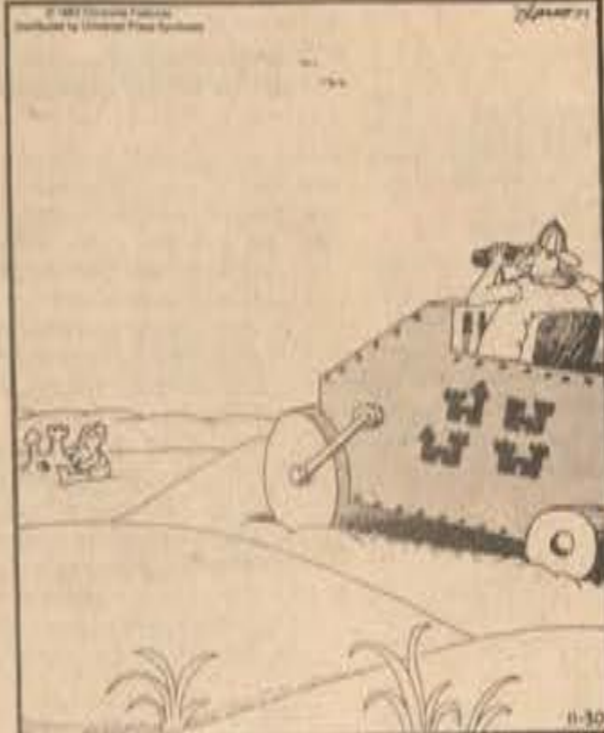
Calvin and Hobbes

by Bill Waterson



Far Side

by Gary Larson



"So, Professor Jenkins! ... My old nemesis! ... We meet again, but this time the advantage is mine! Ha! Ha! Ha!"

"Hang him, you idiot! Hang him up! 'String him up' is a figure of speech!"

Mother Goose and Grimm

by Mike Peters



Mister Boffo

by Joe Martin





Notices

Library hours

Exam schedule

Thursday	December 7	7:15 am to 1:00 am
Friday	December 8	7:15 am to 1:00 am
Saturday	December 9	8:00 am to 10:00 pm
Sunday	December 10	1:00 pm to 1:00 am
Monday	December 11	7:15 am to 1:00 am
Tuesday	December 12	7:15 am to 1:00 am
Wednesday	December 13	7:15 am to 1:00 am
Thursday	December 14	7:15 am to 6:00 pm

Please note that there will be no Reference service after 10:00 pm in the evening and the circulation and on-line catalog functions will shut down one hour prior to closing. Should anyone need study space after the library closes, please check with Security for available rooms in the Academic Complex.

Winter break schedule

Friday	December 15	8:00 am to 5:00 pm
Saturday	December 16	CLOSED
Sunday	December 17	CLOSED
December 18 to 22		8:00 am to 5:00 pm
December 22 to January 1		CLOSED (Christmas holiday)
January 2 to 5		8:00 am to 5:00 pm
January 6 to 7		CLOSED
January 8 to 9		8:00 am to 5:00 pm

Computerized waiting list

Any students who have put their name on a waiting list for any math (MA) or physical science (PS) course, should do the following: (i) fill out an Add/Drop form; (ii) get the signatures of their advisor and program chair; and (iii) get a forced entry from the MA/PS department chair in W316.

This will help a lot in completing pre-registration.

Christmas baskets

Works on the Christmas baskets will begin as soon as possible after Thanksgiving. In the meantime, please consider what size family you or your section can take care of. This year there are a number of elderly living alone who need our loving care. Last year we began caring for some families suffering from abuse. All in all, our real focus has been on the people most in need.

Between these baskets and toys collected at the Employee's Party, ERAU has been the biggest single contributor in this area to Halifax Urban Ministries and the poor they service. Let's keep this reputation!

For those not aware of this campaign, let me explain. From the first year (1980) of the existence of Halifax Urban Ministries, an interfaith outreach ministry, it has been the channel of Campus Ministry's food drives for the needy. Our biggest drives are at Thanksgiving, Christmas and Easter. They have been extraordinarily successful. Even so, there were still some in need who were left unfed and hungry on these days of gala celebration for us.

To all, thanks for your generosity in the past. Let's outdo ourselves this year!

FAA tests scheduled

Embry-Riddle Aeronautical University will administer FAA Pilot and/or Instructor Written Examinations for the following:

1. (PA) Private Pilot-Airplane
2. (CA) Commercial Pilot-Airplane
3. (FIA) Flight Instructor-Airplane
4. (FOI) Fundamentals of Instructing
5. (BGI) Ground Instructor-Basic
6. (AGI) Ground Instructor-Advanced
7. (ATP 121) Airline Transport Pilot-Airplane
8. (AD) Aircraft Dispatcher
9. (ATA 135) Airline Transport Pilot-Airplane
10. (IRA) Instrument Rating-Airplane
11. (FIH) Flight Instructor-Instrument-Airplane
12. (IGI) Ground Instructor-Instrument
13. (FEB) Flight Engineer-Basic
14. (FEJ) Flight Engineer-Turbojet-727

Date	Time	Place
December 12	Tuesday, 0900	A-111
December 13	Wednesday, 0830	A-111
December 14	Thursday, 0900	A-111
December 15	Friday, 0900	H-113, GRW Complex

Students intending to take an FAA Pilot Written Examination are required to sign up in Office D-200 or call extension 6800 prior to examination day.

At the time of the examination, each student must PRESENT A RECEIPT for the pilot exam fee, validated by the Cashier's Office; a WRITTEN AUTHORIZATION FORM signed by an appropriate AERONAUTICAL SCIENCE DEPARTMENT GROUND INSTRUCTOR, or the failed results of a PREVIOUS FAA WRITTEN EXAMINATION, and present as PERSONAL IDENTIFICATION an Airman Certificate, driver's license, or other official document.

Explanation of appropriate forms and procedures will be given. Immediately thereafter, testing will commence and UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE, LATE EXAMINEES WILL NOT BE PERMITTED TO ENTER THE EXAMINING AREA WHILE TESTING IS IN PROGRESS.

Christmas goodies

Beginning Friday, December 1, Christmas cookies and cakes will be available for purchase in the Food Court in the John Paul Riddle Student Center. Selections will include Santa Clause cakes, Christmas Tree cakes, fudge brownies and assorted goodies. For further information call Morrison's Custom Management at extension 6067 or 6068.

Entertainment announcements

December 7	Turner and Hooch	Friday December 15 8:30 am to 7:00 pm
		Saturday December 16 11:00 am to 3:30 pm

1989-1990 Who's Who recipients

The National Office of Who's Who Among Students in American Universities and Colleges has notified Embry-Riddle that 20 nominees have been approved by their boards.

Each nominee will be contacted by Who's Who in about two weeks to secure biographical material for publication in the current book, information for placement files, and other pertinent data.

At Embry-Riddle, nomination is based on the degree of scholarship displayed, as well as special emphasis on co-curricular responsibilities and accomplishments, emphasizing character, leadership, and anticipated potential.

The nominees are:

- |                    |                       |
|--------------------|-----------------------|
| Feroz Bhabha       | Glenn Gougle          |
| Stephen Chafe      | Mary Heitger          |
| Roger Chandler     | James S. MacKay, II   |
| Gregory Church     | Theodore W. McGee     |
| Bryan Collier      | Milagros Ramirez      |
| Stacey L. Cummings | Michael Rouse         |
| Amanda Endress     | Derrick Seys          |
| Karen Forbes       | Joseph Sprague        |
| Charles Foster     | George K. Weller, III |
| Michael Garrow     | Joseph Whalon         |

Flight Student's open forum

All aeronautical science students are invited to stop by the Flight Planning room and participate in an open forum on Wednesday, Dec. 6, at 7:30 pm. Questions and comments welcomed.

Thank you!

To all, both individuals and organizations, who took part in the Thanksgiving Food Drive, all I can do is add emphasis to the heartfelt thanks of the many people who benefitted from your generosity. I admit that at the beginning of the holiday week, I was fearful, but you came through in wondrous proportions.

-Father Kenan Morris, University Chaplain

University bookstore announcements

The University Bookstore begins the holiday season with a giftwrapping service available to all Bookstore customers, as well as seasonal merchandise and a variety of tradebook and merchandise specials. Wrap up your shopping at the University Bookstore.

(For further information on dates, hours and any other related information please contact Susanne Silver of Alisa Gillis at 239-6063 and 239-6077 respectively.)

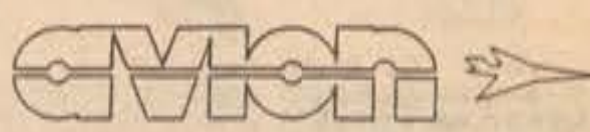
Faculty Regalia will be distributed in the University Bookstore December 11 thru 15, 1989, from 8:30 am to 4:30 pm. Also, a representative from the University Bookstore will be at the Peabody Auditorium to collect the regalia following the ceremony.


Extended hours for Graduation will be as follows:


Friday	December 15	8:30 am to 7:00 pm
Saturday	December 16	11:00 am to 3:30 pm

# A VERY MERRY CHRISTMAS AND A HAPPY NEW YEAR

From your friends at the







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Michael Koster

Josh Mussaf

Greg Naccarato

Brett Messimer

Erinn Moore

Tim Pendergast

John Strelecky

Jose' Va'zquez

Chip Zodrow



## Autos for sale

1986 Fiero SE-Gold. 4 sp. manual. Power windows, door locks and mirrors. Sun roof. V-6. Stereo w/graphic equalizer and subwoofer. Like new, 40,000 miles. Belongs to lady college professor. \$3999. Call ext. 6643 or 672-4999.

1974 VW Superbeetle-4 speed, green, rebuilt engine, runs great. New starter, good tires and battery. Reliable transportation. Body needs work. \$800 takes it. Call 252-7482.

1987 Pontiac Grand Am-4 door, champagne, AM/FM stereo, A/C, tinted windows, tilt wheel, excellent condition. 30,000 miles. Asking \$6200. Call Vince at 257-9737 or Ted at 257-6489 or either at 736-2121.

1990 Red Miata-Clifford alarm, waxoyl. Must sell. \$15,000. Leave note in box 5378.

1988 Nissan Sentra-26,000 miles. Runs great. 5 speed. A/C, tinted windows. Must sell. Bought new car. \$300 and take over payments of \$150 a month for 36 months. If interested call Pino at 788-5085 or leave message at box 5510.

1980 Fiat Brava-Must sell! Graduating in Dec. Black, 4 door, 2 liter, 5 speed, for \$350 neg. Call John at 760-7303 or at Box 1177.

1986 VW Jetta GLI-Black, 4 door, 5 speed, power package, A/C, sun roof, AM/FM stereo. 55,000 miles. LeBris, BBS wheels. Call 255-3562.

1980 Dodge Omni-Reliable transportation. 4 door H/B, A/C, Power steering and brakes. Auto trans. Receipts of all work done since 1984. Good condition. Engines runs good. See for yourself. Asking \$1300. Call Dee at 756-2377.

1984 Ford Tempo-Blue, 2 door, power steering and brakes, AM/FM radio. New engine. (40,000 miles) Asking \$2,800. Call Volker 767-0845.

1986 Jetta-Great condition. Cold A/C. Must sell soon. Just \$4670. Call Brian at 254-8330 and leave message if no one home.

1987 Toyota Corolla GTS-Red, 5 speed. Excellent condition. \$7200. Call ext. 6991.

## Cycles for sale

1980 Yamaha Maxim 650-New tire, great condition. Luggage rack, ferring. \$700. Call Sean 257-4780.

1986 250 Ninja-New back tire, new valves, new tuneup. Fast. Great shape. \$1100 or make me an offer. Call James 238-0258.

1987 JZ600 Yamaha-Excellent shape, pearl white/red, 5500 miles original, 29 mm Mikuni race carbs, single seat cover, 2 helmets. Must see. \$1800 or best offer. Call 358-6847.

1980 Yamaha Maxim 650-New tire, luggage rack, ferring. \$700 or best offer. Sean at 257-8780.

Moped-Commo Colt. Runs well. Good shape. Asking \$125. Contact ERAU Box 7753 or call 760-7343.

Honda Interceptor 85 500cc. Excellent condition. New brakes, good tires. Runs great and fast. \$1450. Call Mike at 257-6701 or Box 2226.

1977 Yamaha DT 250-Blatrack and dirt. Low mileage. \$500 or best offer. Call Shane 767-6446.

## Roommates

Get out of the dorms! I'm leaving for a spring Co-op and my roommate needs a new roommate. Summer Lake Apts. on Clyde Morris, apt. B-5 (by the pool). Call Brian or Scott 767-9005 for a great deal. Must fill for Spring.

5th roommate wanted in 3 bedroom, 2 bath house. Washer/dryer, central air. House fully furnished. 2 car garage. Pets o.k. Available immediately or for Jan. 1. Located in Ormond Beach, 5 miles from ERAU. \$218/month + 1/3 utilities. No deposit. Call 676-7846.

I need a roommate to share a very nice 2 bedroom, 2 bath apartment from Feb. 1, 1990 to June 30, 1990. (end of summer A) They are the Harbor Apts. 2 minutes from school. 12 rent (\$520), 1/2 phone and electric and small security deposit. Call Doug 274-5249.

3rd roommate wanted in 3 bedroom, 2 bath house, for Spring semester. \$200 per month plus 1/3 utilities. No deposit. Call 676-2909.

Female roommate wanted. \$220 a month plus 1/3 electric and phone. 1 bedroom and 1 bath available now. Fully furnished. Washer/dryer. 2 miles from ERAU. Yorktowne Villas, 175 Yorktowne Dr. #14. Call Marcy at 760-3128 after 11:00 am.

House on the beach. Roommate needed to share spacious bottom floor of furnished house just across the street from the beach. Only \$187.50 a month gets you your own furnished bedroom, full kitchen, living-dining room area and full bath. Needed for Spring '90 or earlier. For more info, contact Steve at 258-0651 or Box 2601.

Roommate needed immediately. Two people to take over 4 month lease on 2 bedroom apartment. \$410 per month plus utilities. Available mid-December. Lease until April. Tennis courts, pool, washing facilities. Less than 3 miles from ERAU, DBCC. Bruce 257-1622 after 8 pm. Will deal.

Roommate wanted at Cypress Landing Apt. Pool, tennis, racquetball and more. Single bedroom. \$210 and electricity per month. Call Patrick at 258-3044.

Off Riverside Riverview, 2 bedroom, 2 bath, great room, garage, screened porch, \$490/month. First and last deposit. Call 673-9699 or 239-6613.

Roommate wanted from graduate student to share 2 bedroom apt. 2 miles from ERAU. Cable TV, pool, tennis court, washer/dryer facilities. \$207 plus 1/2 utilities. Call 760-0744. Ask for John.

For rent: furnished clean room with utilities. \$180/month. Very private, quiet, beautiful older home. Mainland 1 1/2 miles from campus. I provide linen too if necessary. Call anytime after 6 pm. 258-9901.

Roommate needed immediately. 1 mile from ERAU. 2 bedroom, 2 bath. Cypress Landing. Call 258-9680 after 5 pm.

Room for rent. Private bath, entrance. Washer/dryer, cable TV. \$250/month plus 1/3 utilities. Can move in now. No lease, quiet. Furnished. Bob 761-5828.

Roommate needs to share 3 bedroom house 4 miles south of ERAU. Private room with full house privileges. HBO & Cinemas. Dishwasher, disposal, central A/C, washer, etc. Walking distance from public library and bus stop. Only \$185/month and 1/4 utilities. Won't last long. Call Jeff 767-5917. Leave message.

Wanted: Male/Female to share 2 bedroom beachside apt. on Hallifax. \$220 per month plus \$220 security deposit. Contact Dan after 5 pm at 254-3173.

Roommate wanted. Female/non-smoker. 3 bedroom house. Washer/dryer, central air. \$200 plus 1/3 utilities. Located in Port Orange. Call 767-7251 for more info.

## Misc. for sale

\* 5679 XT TURBO with HARD DRIVE! \* Processes twice as fast (8MHz) as PCs (4MHz) and XT's. 2 Floppy Drives. Maximum Memory (640K). 8 Expansion Slots. Hercules Graphics Monitor and Card. Modem. New \$1600. \$599 without harddrive. Call Joe at 238-7355 at night, Box 8316.

Camera and equipment: Minolta X-700 program. Minolta 280 px auto flash. Vivitar new series 170-210 macro zoom. Minolta 50 mm 1.7 lens. Haminox 2x converter. Samicon power winder. Telsor 28-80 wide angle and zoom. \$1000 worth. Will sell \$350. Call Janet 238-0258.

Car stereo, Jensen deck, high power output, low power output for amp. Separate bass and treble. Soft touch tape insert and touch button effect. Tape equalizer, CD input. Pre-set stations, fader, and scan mode. Need money, asking \$200 or best offer. Have receipt. Call 760-1754 or Box 5202.

For sale: Alto saxophone. Great condition. Yamaha. \$850 or best offer. John Box 7089 or 255-8627.

For sale: \$2500 for 1988 Hobie 17 Catamaran. All extras/trailer included. 672-9231.

Calculator-HP-41CV. Perfect condition. Original price \$160. Will sell for \$90. Call Matt 274-1937 or Box 7188.

5th roommate wanted in 3 bedroom, 2 bath house. Washer/dryer, central air. House fully furnished. 2 car garage. Pets o.k. Available immediately or for Jan. 1. Located in Ormond Beach, 5 miles from ERAU. \$218/month + 1/3 utilities. No deposit. Call 676-7846.

Nike Air Trainer High. 1 pr, size 11, worn once, slightly large \$40. \$65 retail. Call Tad 238-0720.

5 pc. practice drum kit. All rubber padded to keep noise to a minimum. Great for beginners or late night practicing. \$50. If interested call Lance 239-0382 or Box 3564.

One way airplane ticket-From DAB to Newark (direct). Continental flight 755. Dep 11:45 am Arr 3:00 pm Dec. 15. \$125. Contact Lance 239-0382 or Box 3564.

22 rifle for sale. \$50 or best offer. Lance 239-0382.

Computer! Tandy 1000. 640K, color monitor, 2 floppy drives (5 1/4"), 1200 baud internal modem. \$700 or best offer. 239-6370 day, 760-1628 evenings.

Need to sell transportation voucher. \$240 for American Airlines only. Please call 258-9111 or Box 6127.

5 piece brown couch. \$175. Also have TV/microwave stand, 3 drawer dresser, and desk with chair. Asking \$30, \$35 and \$20 respectively. Best offer takes anything. Contact Jim at 253-7038 or Box 8255.

Kingsize waterbed with satin sheets and comforter. \$200 or best offer. Contact Jim at 253-7038 or Box 8255.

IBM XT TURBO Clone. Processes twice as fast (8MHz) as PCs (4.77MHz) and XT's. 2 Floppy Drives. Maximum Memory. 8 Expansion Slots. Hercules Graphics Monitor and Card. DOS. New \$1500. Only \$850. 12 MHz 80286 \$1299. Call Joe at 238-7355 at night, 239-6051 day.

For sale: motorcycle helmet. Good condition. Contact Box 8692 or phone 253-5518 evenings.

Must sell! Couch, coffee table, 2 end tables, kitchen table w/4 chairs, complete bedroom set, work bench. Will sell separate or together. Available Dec. 18 (some items sooner). Leave note in Box 1123 or call Keith 255-8884.

### CLASSIFIED AD POLICY

- ➔ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- ➔ All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- ➔ Commercial advertising is available through the Avion advertising department.
- ➔ Classified advertising is carried out by filling out a classified ad card in the Avion office.
- ➔ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
- ➔ Ads will run for two issues and may be renewed by filling out another classified ad card.
- ➔ No classified ads will be accepted over the phone.
- ➔ For more information, stop by or call the Avion office at (904) 239-6049.

Moving sale. Waterbed-755. Couch, table, desk. Call Sean 257-4780.

New computer for sale. 16 MHz, 286 Zero wait state! With 1 meg RAM, (1) 1.2 MB floppy drive, (1) 40 MB 28ms hard drive, 101 key keyboard, 12" high resolution amber monitor. \$1575. Call 760-4992.

New! Computer for sale. 12 MHz XT zero wait state! With 640 KB base memory, expandable to 1 MB. 2 floppy drives, 101 key keyboard, 12" high resolution monochrome monitor. \$750. Call 760-4992.

For sale 4 pieces of furniture: queen size bed, full size sleeper, small couch, and small table. All in excellent condition. Asking \$300 or best offer. Call 254-5039.

IBM XT Turbo Clone. Run twice as fast as IBM PC (8 MHz). 360 drive, 640 K RAM, 8 expansion slots, 2 serial ports, 1 parallel port, 1 game port. 13" color monitor (not as computer, VCR, video disk player). 32 MB Seagate hard disk + software. Ask \$1370 or best offer. Call 760-0744. Job.

For sale: waterbed w/head board. \$125. King size chester drawers and night stand. \$75 or whole set for \$175. Call Mike 257-6701 or Box 2226.

Chiropractic bed for sale. 1 semester old. Almost new. \$100. Call 238-0423. Leave message Box 8034.

Waterbed-Semi waterless, queen size, includes everything. Brand new, six drawers, mirrored headboard. \$200. Call Chris 760-1715.

Waterbed (black) w/headboard and end tables (black). Must see. Best offer. Call 239-9520.

One way ticket from Baltimore, MD to Daytona Beach, FL on January 7, 1990. Contact Marcia at 255-8508.

I want a pair of Carrera Porsche Design sunglasses. They are valued at over \$300. Great flight glasses. Want \$100 or best offer. Contact Jon at 258-2445.

Guns for sale: M1 Garand, Springfield (Korean War) excellent condition. High standard sniper rifle. 22 target pistol. Box 7546 or 253-5518 eyes.

For sale: Men's Raleigh Record 10-speed. Maroon with aluminum wheels. Excellent condition. Owner's manual and set of bike tools included. \$200 or best offer. Call 761-0781.

Radar detector. Passport radar receiver. Over \$300. Now will sell for \$200 or best offer. It's not stolen. I don't have a car anymore. Call Sean 252-8232 or Box 6648.

For sale: Waterbed \$50. Desk, bureau, tables. Call 257-4780.

Semi-waterless waterbed. 6 drawers, mirrored headboard, includes everything. Mint condition. A steal at \$200. Call Chris at 760-1715.

For sale: 2 38" lamps, 19" color TV, 48" TV cabinet. Best offers. Must sell before graduation. Bruce 257-1622 after 8 pm.

Mouton fur evening jacket (sheepskin sheared to look like beaver or seal). Came from Clearfield (PA) Furriers, size 8, worn 3 times, worth \$500. Asking \$100 firm. Call Harris 239-6901, 6-5 weekdays.

For sale: Queensize waterbed. \$150. Must sell as soon as possible! Call 258-6351 (anytime).

16' Hobie Cat 4-sail. Cons w/alt trailer, 1 bucket seat, cables for 2 trapeze, extra rudder and arms, extension stick, rigged for 1 man set-up, misc. pieces. \$1600 firm. Possible finance w/1000 down and \$100 per month. Todd 756-3933.

Ticket for sale. Providence to Daytona, Jan. 5. Best offer. Sean 257-4780.

For sale: 50% ownership in 1975 C-150. New radio/VOR. Recent annual. Contact Nick 253-3969.

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- ➔ For more information, stop by or call the Avion office at (904) 239-6049.

For sale: Yamaha PSR-90 electric keyboard. Full size keys and many features including split keyboard and 4 track recorder with cartridge memory. Call Brian at 255-8481.

Complete weight set-includes barbell, bench, curl bar, 2 dumbbell bars, approx. 200 lbs. weight, collars, etc. Sell by Dec. 18. \$85. Call Keith 255-8884 after 5:30 pm.

Electric guitar for sale. \$60. Call Sean 257-4780.

Must sell: IBM PC. 30 megabyte hard drive. 640K, 5 1/4" floppy, enhanced keyboard, amber monitor, and lots of software. Only \$975. Call Tom 672-0362.

Snake for sale. Beautiful 6-footer Burmese Python. Great pet for Spring break! Must sell before Christmas. \$150. Call after 5 pm. 255-7878.

Need dedicated and reliable flight instructor to provide instruction in personal aircraft. Contact Nick 253-3969.

Need ride home to North Carolina for X-mas break. Will help with gas. Possibly ride back. Phone Paul at 255-6208 after 8:30 pm.

Faculty/staff and students: build a business. Start today. Exceptional opportunity for growing income. Meet others who have done it. For informative appointment, phone: 756-7853.

I will pay \$20 to anyone travelling to Bradley Airport, Hartford, CT, who will escort my Chow Chow dog. No work involved. Call 252-5907.

Need ride to Tulsa, OK or vicinity (Texas, Arkansas, Kansas). Leave anytime. Can share expenses and driving. Have a radar detector. Call Todd 756-3933.

P.A.D.I. open water certification. \$100 includes all academic and pool instruction. Use of all SCUBA equipment. PIC registration fees. Advanced, rescue and divemaster available. 761-2021. Jan.

Wanted: 1984 GTI with low miles, no accidents, good condition. To buy or trade for 1985 Jetta GLI. Call Werner at 255-3562.

Needed: Secretary assistant, part time Jan 8, 1990 through April 16, 1990. 15-30 hours weekly. Must have some experience. \$425/week. Call Mrs. Fitzgerald 252-4669 for interview.

## Personals

LJA See ya soon, New Years in New York Smile Baby, Stay Away from Detroit Merry Christmas!

SCOTT- Do you remember that Friday night long ago when we taped Jeff and Chad's shoes to the ceiling? You read my tarot cards and we fell asleep while watching the Three Stooges. Maybe this weekend we could... S.

TINA, The final truth is life sucks. You go to Riddle, it sucks worse. And then you die! THE WORLD OF REALITY

MELLYSA, I hope you had the best Thanksgiving ever. Great to have you back. I think I'm going through withdrawal syndrome. Good luck on finals. Love, WALD

SIXYY! Wouldn't you say it's been a great semester? Whipped cream, dough, a scorching hot bath, and endless good times. Let's top it next semester. I love you. BABI

DEAR KENNY & DINA, Best wishes and get well soon! MHP Love, CLUBHOUSE GANG MICKY BOY

CLUBHOUSE MEMBER DINA: Have a speedy recover. Get well soon. MP

CLUBHOUSE MEMBER MIKE: Tuesday, December 5th. Happy Birthday Haotell! MP

CLUBHOUSE GANG: Only one more week to go. Keep up the good work. MHP MICKY BOY

CLUBHOUSE GANG: BC passed out and got written on again. He should learn to call neutral territory. MHP MICKY BOY

CLUBHOUSE GANG: BC and Mickey Boy score another. This makes us three on top of Riddle. He Ha. They'll never know! MHP MICKY BOY

CLUBHOUSE GANG: Mr. Ed-if she only knew the truth I would be all set then, huh? How about that poem? MHP MICKY BOY

BC: Talk to my operators lately? MHP FLIP

SOC P.R. You best get your priorities straight! You know elections are soon and Denise looks like a sure thing. SOC PRES.

SCOTT, Thanks for being the best roommate ever! Has to leave right as we're having so much fun, but I'll only be a waaa line away. Merry Christmas Pal. BRIAN

KIRK, I'll miss you too bud. Have a Merry X-mas! See you in May. BRIAN

To the residents, friends and family of 1162 Hampton. BE EXCELLENT!

I sit on your window sill and contemplate my life. The direction of my future is spiraling. When and where will it stop? The cops were called for a burglar and you held my hand. S.

DEAR BRIAN, We hope Claudia will wait 95 billion years for you. BORED MATHEMATICIANS

KHALID, Are you going to talk to me or am I going to have to hunt you down and kill you! CORIEIN

CEJ, When's dinner? RYAN

MATT B. Nice dance! Can I have an encore!

BRIAN B. Thanks for being there when I needed someone. Love, JEN

NOT TL, Hey! Impressed? Now that I have your attention, I just want to say: Je t'aime and I love you! Boy, is that redundant or what? TC DEC'D. (yes, it's really real!)

MARK (SPIDERMAN) Popcorn DIANE (BRONCO)

MANDY, Now you can't say no one ever thinks of you. Have a great Christmas. A FELLOW CLASSMATE!

HEY ERAS NEW OFFICERS! I challenge you all to do as good a job as Derrick and Jose. Can you do it? A CLUB MEMBER

HEY ERAS EX-OFFICERS! Congratulations on your super job leading the club. We will miss all your talking, trips, and just you! The club will never be the same. Thanks for dedicating yourselves to it. A CLUB MEMBER

PEDRO Y SONIA, Hoy que "empiezan" una vida nueva, juntos para siempre. Yo les quiero desear lo mejor. Ahora los encontrare a la misma vez. Los quiero. J.R.

KHARRUM (YOU THIEF): Why don't you give back the money you stole from Tim. He could really use that eighty-seven dollars you stole. "BALSS" MEMBER

APARTMENT, Thursdays suck. THE HOUSE

APARTMENT, We're booked at the Hilton Rose Room for a Perry Como set. THE HOUSE

LAMBDA CHI, I think playing duck, duck goose was a little more entertaining than your mating call. MOTHER GOOSE

ALEXA, Does your silence mean it's over? Just kidding! I just wanted to say "Hi". DAN

ERAS-MR. BROWN, Don't let the new officers on their own yet. They need experience!! A CLUB MEMBER

TRUFFLEON Will she strike again in 1990? Yes. But this time in helicopters! Keep watching the skies.

Energy is never lost-just transformed from one state to another. Green ice cubes to green water to green steam back to green ice cubes again.

JOE, BRIAN, MATILIA THE HUN. Thanks for nothing, you guys can be real jerks sometimes, and you really know how to make someone feel wanted! MATT

Congratulations! You made it to 21!! Happy Birthday Stacy!!

KRAPPER, The seal of the semester is almost here, to pull it out and change it! MR. & MR. PAPERVICH

KHALID, A bit of advice from a friend: unless you like bandages and scars, you'd better talk to Cowen soon. JENNY

CORIEIN & EVELYN, You're the best roommate a person could ask for! JENNY

K.A. I know how you can pay back the favors. Call me and find out. J.D.

MARTY, Thank you. CORIEIN

OREG, Thanks for psychanalyzing me. Maybe I can return the favor sometime. I owe you tons, I guess not all Riddle men are the same. CORIEIN

FRED K. I want you! (Can't say it any plainer than that!)

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## MERRY CHRISTMAS



## HAPPY NEW YEAR

THANKS FOR THE GREAT SEMESTER ERAU  
SEE YOU IN THE SPRING

### THURSDAY

**METROPOLIS!**

FREE DRINKS 9-11 pm  
2 FOR 1 HEINEKENS,  
MICHELOBS, AND  
MICHELOB DRYS  
11 pm UNTIL CLOSE

### FRIDAY

\$1.00 DRINKS 9-11 pm

**MALE & FEMALE  
BEST BUNS CONTEST  
WITH  
\$100.00  
CASH PRIZE!!**

### SATURDAY

\$1.00 DRINKS 9-11 pm

**DANCE CONTEST  
WITH  
\$100.00  
CASH PRIZE!**

### SUNDAY

**SUNDAY BLOODY  
SUNDAY!**

2 FOR 1 HEINEKENS,  
MICHELOBS, AND  
MICHELOB DRYS  
PROGRESSIVE ROCK

**IMPROPER DRESS  
REQUIRED!**

### MONDAY

**MIDNIGHT  
BUFFET**

FREE DRINKS 9-12 pm

**Free Midnight Buffet,**

### TUESDAY

**SUNDAY BLOODY  
TUESDAY!**

**FOR THOSE WHO  
DIDN'T GET ENOUGH  
ON SUNDAY!**

\*except free drink nights

\*students over 21, minors receive a discount