

11-8-1989

## Avion 1989-11-08

Embry-Riddle Aeronautical University

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# AVION

An Award-Winning Newspaper by Students for Students

Volume 63, Issue 9

Embry-Riddle Aeronautical University, Daytona Beach, Florida

November 8, 1989

## Campus News



Melvin George and Dawn Reed entertain eager students at last Friday night's Attitude Adjustment. **Page 5**

## Space Technology



E'Prime Aerospace is anticipating a bright future in commercial space after a recent launch success. **Page 13**

## Aeronautica



A new abrasive waterjet cutter developed by Lockheed uses powdered garnet to cut through almost any substance. **Page 9**

## Diversions



The Rolling Stones take America by storm in another whirlwind tour. Five dates are planned for Florida. **Page 15**

## Clubs



Recent Dorm Olympics included such events as a Tug-of-War and a game called Pilot-Navigator. **Page 7**

## Sports



The Riddle Eagles Basketball team plays Nova University at the Ocean Center this Friday. **Page 11**

# Skit Night enthralls U.C. crowd

## Air Force ROTC cadets show their talents

by Tina Matilla  
Copy Editor

Well over 200 cadets, officers, and their guests showed up at the University Center last Wednesday to join in that most enjoyable annual event called AFROTC Skit Night.

The members of AFROTC Detachment 157 gathered and let down whatever hair they had to poke light-hearted fun at themselves and their organization.

The idea behind Skit Night is that cadets are given the opportunity to write, produce, and act out their own mini-plays in which they proclaim "open season" on AFROTC issues, officers, cadets and anything else they can think of. Through it all, the aim was laughter.

The Morale Recreation and Welfare Staff set up the provision of beer and pizza for those in attendance. Steve Coppa, the chairman of the M.R.W.S., did an extensive amount of work in coordinating the resources necessary to put together an event of this kind. It took well over a month to plan the evening.

People started streaming into the U.C. at 7:30 pm and the cadets were in high spirits by the time the acts got underway at 9:00 pm.

Of the seven acts scheduled for the evening, only six ever made it to the stage. Of

the six that made it to the stage, only six were met with the unequivocal enthusiasm of the crowd and the sarcasm of the MC for the night, Scott Costin.

The first group to appear featured a news reporter, live props (a street cleaner who used a blower) and the one and only "Cadet God." Immediately following was the usual confusion and mess that necessarily accompanies impromptu comedy.

The audience, however, made the best of the situation and amused themselves by yelling jokes across the room and responding to bad jokes about Jack and Jill by the MC.

When the second act did come on, the audience was treated to a parody of the pledge interview necessary before receiving a commission. After rejecting a first cadet who came in straight and tall and in attention, they accepted the cadet who said, "I don't wanna push myself... I definitely want a commission, but I want to duck responsibility. I think squadron commander would be cool."

The ensuing act gave a dramatization of an Air Force physical in which artificial breasts and a cane nurse's outfit added one more female to the corp. As the act proceeded, Dr. Rainrod and his nurse would take a gallon of blood and a huge urine sample as well as give an unfortunate cadet a prostate examination.

At the end of the night's third act it was 9:25 and time for an intermission during which the MC told Mother Goose jokes while the audience tried to coax him into doing more graphic comedy. Ten minutes later the fun began again.

Skit Night's fourth act took the audience on a trip through time "in search of the Holy Det." The skit was an adaptation of Monte Python's "Quest for

the Holy Grail" in which the great proclamation is made: "Strange women distributing flags is no basis for a chain of command." The audience, whose resounding "Booooo" greeted the first minutes of the act, rallied and came to the side of the performers after one of its leaders yelled "You try making one of these things!"

see ROTC, page 8



ROTC theatrics...

Riddle students make their acting debut in a skit satirizing the rigors of ROTC physicals.

## ERAU cadets receive educational awards

Future officers in the U.S. Air Force who currently are enrolled in the Air Force Officers Training Corps (AFROTC) at Embry-Riddle Aeronautical University here have brought home top cadet honors, two scholarships and a host of other medals and ribbons to start the new school year.

At a recent AFROTC Commanders Conference in Fort Worth, Texas, two cadets from the Daytona Beach campus were presented with scholarships. Gregory Church, a senior, received the United States Automobile Association scholarship as the best pilot candidate in the Southeast Region. Christopher Johnson, a junior, received a Pentagon Federal Credit Union scholarship award.

Embry-Riddle's Detachment 157 also was presented the Air Force Organizational Excellence Award for the second two-year term in a row, according to Colonel Bruce Hinckley, professor of aerospace studies and commander of the ROTC detachment. "The award is granted every two years, based on past performance," Colonel Hinckley said.

"Air Force ROTC cadets at Embry-Riddle have a right to be proud of their achievements," Colonel Hinckley said. "Embry-Riddle has produced more pilots and more second lieutenants than any other ROTC in the country."

Two Embry-Riddle cadets won top cadet honors during field training camps conducted last summer at Air Force bases around the nation. They are Brian A. Dudas and Deanna M. Bart. "They received the Commandant's Award for being the most outstanding cadets at the camps they attended," said Captain William "Buzz" Harrell, assistant professor of aerospace studies and public affairs officer for the detachment.

Three other Daytona Beach cadets who received overall excellence honors were John R. Watts, Robert G. Brown and Michael K. Demski.

"The 18 field training camps held during June, July and August host about 200 cadets at each four-week session. Detachment 157 cadets brought home 26 other individual and certificates from those camps," said Captain Harrell.

"The AFROTC is the only way some students will get to fly the military's multi-million dollar aircraft," Captain Harrell pointed out.

"There are only three ways a person can become an Air Force pilot," he said. "One is through the Air Force Academy. Another is through the AFROTC program and getting selected as a pilot candidate. The third is to be selected for Officer Training School once you are in the Air Force and after graduation from college."

**"The AFROTC is the only way some students will get to fly the military's multi-million dollar aircraft."**

**Captain Harrell  
Asst. Prof. Aerospace Studies**

## SGA sponsors sale

by Mary Heltger  
Special to the Avion

With Christmas just around the corner, most of us will find ourselves needing some extra cash. To help solve this problem, the Student Government Association is sponsoring the first annual SGA Flea Market. The event will take place on Saturday, December 2, from 9 am to 3 pm in the University Center. All students, faculty, and staff are invited to take part in the flea market. Clubs and Organizations are also welcome to use this opportunity as a fund-raiser.

To reserve a table and a spot in the University Center for the flea market, all those interested should stop by the SGA office in the U.C. no later than November 30. Tables will be reserved on a first-come, first-served basis. After all the tables are reserved, participants will be able to bring a card table or a blanket to display their items on. Display areas are limited to the Flight Deck in order to provide enough space for everyone.

The flea market will be an excellent opportunity to sell or buy school supplies, clothing, household items, etc. Items not allowed in the U.C. are pets, motorized vehicles, bicycles and large furniture, however, you may bring a picture of these items. Food, beverages and alcohol will not be permitted for sale at the Flea Market. The SGA will sell sodas and snacks, and donate the money to a local charity. The public will be invited as buyers but not sellers.

## Homecoming Week provides tribute to John Paul Riddle

by Tina Matilla  
Copy Editor

John Paul Riddle died on April 6, 1989 and left behind him a legacy of ability and character that spanned almost a century to affect first the men and then the women of aviation.

November 6, 1989 marks the beginning of the first homecoming week for Embry-Riddle Aeronautical University since the death of its only founder-Trustee. As a salute to this man who conceptualized the possibility of creating a school of aviation excellence, a visual

tribute to the man and his life has been created by Helen Reiger and the company called Flying Colors. The tribute comes in the form of a twelve minute slide show chronicling the life of John Paul Riddle from the age of four until his recent death at age 87. Helen Reiger and Kay Peoples, who owns and operates Flying Colors, have been working on the slide show for over three months, searching through archives, going over past interviews with Riddle, talking to his family and basically raking through the past in order to put together a presentation befitting J.P. Riddle and his great accomplishments.

What emerged after their labor was done was a tribute to the man which is informative, noble and even touching. The film charts John Paul Riddle's life from the age of four, when he first decided that he

would fly and see angels to his recent death in April. It is a history of his involvement with both the University and the aviation industry spanning his resignation of an appointment to Annapolis Naval Academy, his days of barnstorming in Cincinnati, the training of World War II aviators, his marriage to Adell Pardee and his involvement with the students of Embry-Riddle, the "school he had founded and re-founded."

On November 1, 1989 President Kenneth L. Tallman, Father Morris, Bud Pain, George Thune, and Diane Thompson would view the presentation for the first time since its completion. All were very impressed. The general consensus: "It's excellent."

Embry-Riddle Alumni will view the presentation on November 11 at the Alumni Banquet to be held at the Daytona Beach Marriott. The show is for the benefit of those who knew and loved J.P. Riddle as well as those who never had the opportunity to. Beyond the banquet, there are hopes that the presentation will be made into a videotape and kept in the library where future Embry-Riddle Students will be able to view it.

The story of John Paul Riddle's life was one intrinsically wrapped up with the life and success of Embry-Riddle. Helen Reiger said, "We tried to keep it a personal story rather than an Embry-Riddle story, but the two were so intertwined that it was impossible."

**"We tried to keep it a personal story rather than an Embry-Riddle story, but the two were so intertwined that it was impossible."**

**John Paul Riddle  
1901 - 1989**

Editorial

I am the boss

I am the boss around here.

I am a student, and I pay my tuition and fees--so there!

I pay a parking fee, so I can park anywhere I wish. The faculty should not be given a special area, or maybe they should be the ones to park across the street far from classrooms.

I pay the teachers' salary with my tuition, so every teacher better do what I want them to do. I am the boss.

I pay my student activities fee, so the editors of the newspaper and yearbook also better do what I want. Without me there would be no newspaper or yearbook. See?

Students arise and take your rights. I know that many of you, especially those right out of high school, agree with me.

We are the bosses around here and we can get our own way in all things both great and small. Come to think of it, let's demand better grades. Maybe even B's--but why be pikers? Demand A's, not just passing grades.

What else can we demand? Let's see. We can park anywhere, tell teachers to behave, get our way with editorials on the newspaper, fly when and where we want, have the entertainment we want--and if we can't agree we can shoot it out among ourselves.

As a student I want what I want and it better be now. Now, students should be the bosses.

When I become grown up and successful myself, then we can change the rules. If I become a college professor, for example, then the students better listen to me and I better have a parking privilege.

But that is then. Now is now!

I know that some students might not agree with me, but if you think I'm peculiar and far from common, just ask any professor. They'll tell you that what I'm saying is all too familiar.

Now, to the administration around here, and even the top dog himself, I have a few more demands. But that'll have to wait for another time. Just keep on your toes.

The college creed is about the importance of the student, and I'm only extending the idea a little bit, aren't I? I am the boss, aren't I?

Bill Day



Letters to the Editor

Sports?

To the Editor:

I am writing in response to last week's editorial. I must agree that sports scholarships at a school like Embry-Riddle are an unnecessary expense that would be paid for by mostly unsupportive students. Having grown up in Nashville, Tennessee, the home of Vanderbilt University, I am familiar with a school that continually fails at most of its sports endeavors as the result of the discontinuity resulting from attempting to mate an academically oriented school with a successful sports program.

Even when outstanding athletes are attracted to the school, the school's demanding academics either remove them from eligibility or provide them with such low quality teammates that they are still

unable to compete effectively. Perhaps lessons learned at other schools should be considered before spending so much of the students' money, without allowing them any real semblance of a say in the decision.

Joe Cambron  
Box 8316

They better not!

To the Editor:

This letter is in response to the question raised last week in Student Forum: "What are your thoughts on the possibility of the University offering full athletic scholarships?" I have two answers: (1) They SHOULD NOT and (2) they BETTER NOT! There are enough students here who must

work and take classes at the same time. Many of us receive some sort of financial aid (usually in the form of loans). I know many a student who owes Uncle Sam on the order of \$20,000 after taking out loans for 4 years. Before this school shells out a nickel to a student simply for his/her athletic talent, it must help those of us who are in debt and must work extra jobs on the side just so we may take classes here. Some of us remember Wes Oleszawski (he was a lab student of mine). It took him 10 years to graduate--largely because he kept running out of money. The University must meet the needs of people like Wes--people who are here for an education; not people who are here to play sports.

Now, to explain my second answer. I am graduating in April. This school, somewhere down the road,

will ask me for contributions. If the school starts offering full athletic scholarships--I will never never contribute to this school. I guarantee it!

Tim Meshginpoosh  
Box 7122

Tell me why

To the Editor:

I'm a sophomore at Embry-Riddle and I've been a member of my Fraternity since January. I'm extremely proud to wear its letters and to be associated with the people in this Fraternity, and I would do anything constructive to promote its interests. One small way I have already done so was to write the Fraternity's letters on my car windows with white

see LETTERS, page 8

Student Forum

The Avion asks: Should Embry-Riddle have a formal dance for Homecoming if other schools are invited?



Stewart Miller

Yes, since the girl ratio is so slim between guys and girls.



Chad Lynton

It's a good idea but we need lots of girls.



Leslie Raschilla

Personally I don't think other schools would want to participate because of their attitudes toward ERAU.



J.R. Simpson

Yeah, something as serious as Homecoming needs a formal dance to be comparable with other institutions.



Mike Alexander

I definitely think we should have one if it's informal. It gives people the chance to know more students.

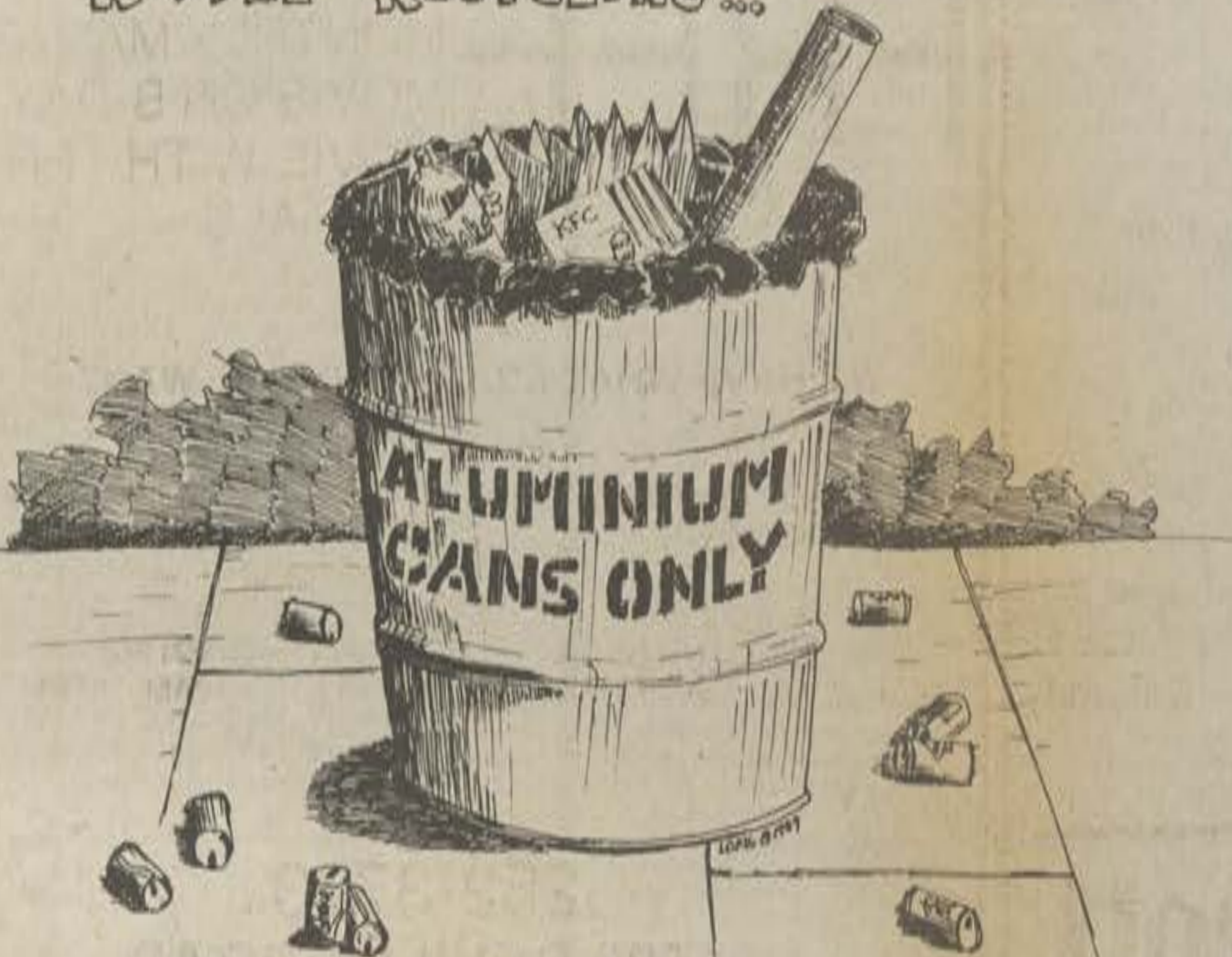


Chad Barton

Yes, it would get other people to participate in activities and allow students to meet people from other schools.

photos by David Fekke

RIDDLE RECYCLING...



MAYBE IF THEY SAID: "IT WOULD LOWER TUITION..."



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**Associated Press**

**East Germans stream to West German embassy in Prague**

PRAGUE, Czechoslovakia (AP) More than 1,300 young East Germans jammed the West German Embassy on Thursday to seek new lives in the east, and many scoffed at promised reforms in the communist homeland they left behind.

In East Berlin, Communist leader Egon Krenz urged closer economic ties to the West and said a new law permitting freedom of travel to the West would be announced Monday. Several top Communist officials resigned, including the wife of ousted leader Erich Honecker.

At least 8,000 East Germans swarmed into Czechoslovakia after East Germany lifted a month-old travel ban on Wednesday, the official East German news agency ADN said. It is the only country East Germans can visit freely.

Most of those flooding into the embassy in Prague were in their early 20s. At least 200 to 300 children could be seen behind a fence playing peacefully in the embassy grounds.

"We want reforms without borders," said one of the new arrivals, a 24-year-old trucker from Leipzig.

"I don't believe that anything will change there," said another young man who declined to give his name. "The reforms are only for the outside world."

As darkness shrouded the embassy, East Germans continued to arrive, with at least 20 people gaining entry in just one 15-minute spell.

The refugees simply walked in through the giant wooden doors of the Palais Lobkowitz, the elegant Baroque palace that houses the West German Embassy in Prague's ancient Mala Strana district.

A Czech policeman outside the embassy said he and his colleagues had orders not to interfere with any East Germans seeking entrance because this was a matter for the two Germanys alone.

Several refugees chatted with reporters through the railings of the embassy garden, some sipping beer and listening to music. Others waved from upper-floor windows in the embassy.

Shipments of tents were ordered from West Germany to cope with what embassy sources expected would be a renewed influx over the weekend. West German Red Cross helpers and medical supplies were dispatched from Bonn.

East Germany has agreed to allow East Germans at the embassy and at the West German Embassy in Warsaw to renounce their citizenship and go to West Germany, which automatically gives them a new passport and assistance in starting a new life.

East German diplomats are processing only about 100 people a day in Prague, and more than 1,000 are still waiting in the West German Embassy in Warsaw.

East German Ambassador Helmut Ziebart urged his countrymen to seek legal emigration in East Germany, rather than go through other countries. But many complained that it takes years for such requests to be granted.

West German coaches were used to ferry the processed East Germans to the Czech border with Bavaria at Waidhaus. Some East Germans who boarded a bus Thursday appeared rather drunk, witnesses said.

Czechoslovakia's normally conservative state-run media, which gave only scant reports on the exodus of 15,000 East Germans through Prague last month, swiftly reported the latest arrivals.

More than 70,000 East Germans have fled their homeland through Hungary and Bonn's embassies in Prague and Warsaw since August.

On Oct. 3, Honecker banned travel to Czechoslovakia to try to halt the mass emigration of young, skilled workers badly needed in his labor-intensive economy.

But the exodus and pressure for reform led to Honecker's ouster Oct. 18. Krenz, who is trying to bolster the Communist Party's sagging authority with promises of reform and foreign travel, lifted the ban.

**Air Midwest gets buyout offer**

WICHITA, Kan. (AP) Air Midwest Inc. said Friday that it had received a \$27.5 million buyout offer from a St. Louis airline company that would top a recent bid by a New Mexico airline.

Air Midwest, of Wichita, said TransWest Air of St. Louis had offered to buy all of its outstanding shares for \$6.55 a share in cash and notes.

That is higher than a proposal made Wednesday by Mesa Airlines Inc. of Farmington, N.M. Analysts estimated Mesa's offer at \$25.3 million, or \$6.02 a share, excluding Air Midwest's stock options.

Earlier this week, Air Midwest's board had directed management to pursue negotiations with Mesa.

Air Midwest is the biggest commuter line operating at Kansas City International Airport.

**Delta Chairman urges opening up of air space to reduce delays**

WASHINGTON (AP) The top official of Atlanta-based Delta Air Lines said Thursday the government should open up more air lanes to allow room for expansion of the nation's aviation system.

"We are often allowed only one route or 'railroad track' between city pairs located as far apart as 1,000 miles," said Ronald W. Allen, chairman of the board and chief executive officer of Delta.

"This lack of flexibility adds to airline costs and controller work load by keeping these airplanes in the system longer than is necessary."

Allen spoke at the annual meeting of the Air Traffic Control Association.

He called for a reopening of many closed en route sectors along with creation of new ones. He said there are about 80 fewer such sectors today than in 1981.

He also urged reopening of high-altitude sectors and permitting limited airborne holding, which he said could cut two-thirds of the time lost in ground delays.

Allen said Delta considers airspace capacity to be a more pressing problem than airport capacity, but he also urged increased planning for expanding the nation's airports.

**Federal officials release report on February Beechcraft crash**

GLENS FALLS, N.Y. (AP) Dual radio frequencies used by pilots at the Warren County Airport prior to a fatal midair collision in February caused "close encounters" among airplanes taking off and landing at the facility, federal officials said.

Those near-hits, combined with fatal collision, prompted a verbal recommendation from the National Transportation Safety Board for airport officials to remove one of the frequencies following the tragedy, regional NTSB spokesman Frank Ghiorso said Friday.

Three Queensbury siblings on an outing to celebrate the oldest girl's birthday were killed when two single-engine planes collided in midair.

The pilot of the plane carrying the children, along with an instructor and a student pilot in the other plane, were also killed.

The NTSB's final report, a 122-page document released more than eight months after the collision, details events and conditions surrounding the crash but does not pinpoint the cause.

However, the report states that pilots using one of the frequencies a local weather advisory frequency often didn't switch back to the second frequency a traffic advisory frequency to gauge where other airplanes were

**Career Corner**

**Co-op Opportunities**

Are you a Sophomore with a 2.5 GPA and majoring in either Aerospace Engineering or Aircraft Engineering Technology who would like to combine his/her academic and career interests with a work experience? Then the Career Center would like to talk with you about a Cooperative Education opportunity with one of the following companies during the Spring semester 1990.

**Naval Air Development Center**  
Warminster, Pennsylvania  
Assists in research, development, testing, evaluation and acquisition of Naval Aviation concerns.

**Mitre Corporation**  
McLean, Virginia  
Approximately 10 Co-op positions open.  
To assist technical staff conducting engineering studies of implementation plans for back up of National Airspace System and Control facilities.

**Grumman--St. Augustine Corporation**  
St. Augustine, Florida  
Provides engineering support to the various modification programs in progress. Works closely with Stress Analysts and Liaison Engineers in determining necessary repairs and providing written engineering instructions and drawings to manufacturing for the actual repair of the aircraft.

**Piper Aircraft**  
Vero Beach, Florida  
*Technical Illustrator*  
Responsible for the development of technically accurate illustrations for inclusion in Pilot's Operating Handbooks, Parts Catalogues and Service Manuals. Source material includes blueprints, engineering drawings, engineering orders, hands on inspection of parts, and verbal communications.

*Designer Draftsperson*  
Preparation of layouts to substantiate aircraft design, and redesign concepts. This position requires drafting skills for creating and changing drawings.

**Textron-Lycoming**  
Stratford, Connecticut  
Assists in ensuring Aircraft engines components are structurally sound and well engineered through numerous testing techniques.

**UPCOMING CAMPUS INTERVIEWS**

*Flight International* will discuss their pilot training program which guarantees interviews for the 200 hour student. United States citizenship is required. Time is 8:30 am on Thursday, November 9 in the University Center Conference room.

*McDonnell Douglas*, St. Louis will be here November 16 and 17. They are looking for people with AE, ACET, CS, AMM, AVTECH, AVIONICS and any other degree with military experience. A four year degree and U.S. citizenship is required. Sign up in the Career Center.

*Naval Technical Intelligence Center*, Washington D.C. will recruit here on Monday, November 20. AE or CS degree and U.S. citizenship required. Sign up in the Career Center.



**WAVES  
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Complimentary Taco Bar  
\$1.50 Margaritas, \$1.00 Mexican Beers  
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**Wednesday** - Ladies Night Out  
\$1.00 Drinks all Night  
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**Thursday** - Go Bonkerz with Live Comedy from Dangerfields  
Show Starts At 9:00 pm  
Post Show Drinks \$1.50 'till Close

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Commentary

Abortion: another alternative

by Greg Naccarato

The world today faces many problems and situations that will effect future generations here on this earth. One problem the United States feels strongly about is that of abortion. Either we are pro-choice, pro-life or some shade in between.

We know there is a problem, with those in the pro-choice group believing the mother has a right to terminate the fetus, and those for pro-life believing the killing of the fetus is the murder of a potential life. Each group has its own way of defining the term abortion, and each definition has highly emotional language. This may persuade us to feel a certain way, without looking at the situation in a neutral light to really see what each group is saying.

Accordingly, there is a problem. This is shown because two groups are in conflict with each other. Neither one is willing to back down and let the other take control of the fight. For this I commend each of you, abortion is too important to be tossed about by the courts or be used by politicians as a tool. We must work together to heat this national problem instead of fighting each other.

In the past abortions have been performed whether they were legal or illegal, thus determining the quality and safety of the acts. Making this decision has been difficult, since no real concrete point of view has been established. The time is now to make that choice irrelevant and one of obsce-ence.

One step in the right direction is the setting up of support facilities for pregnant females. Often the mothers are unwed and left with the responsibility of the fetus. Abortion is an easy choice. Another alternative is to carry the fetus to term. For this all mothers needs support.

She must have free or low cost satisfactory medical attention. Medical costs are expensive and increasingly prohibit more people who need medical attention from going to the hospital. A point of greater significance is the hospital visitation must be readily accessible to the mothers.

Next, the mother and baby need monetary funding to eat and have a roof over their heads, because the mother cannot work during the last months before giving birth and after the baby is born.

Decent low cost child care is in order for the mother to become a productive working member of society. While giving the infant the best care appropriate to all human beings.

If the mother is unwilling to keep the baby, a more efficient adoption process must be established. There are many prospective parents who cannot have children, that would be willing to cover the medical costs for the delivery of the baby.

Most important is the fact that society needs to take a nurturing, caring attitude towards the mothers. Society cannot continue to say "it's your fault, you deal with it." We must make a personal commitment to directly help either through our services volunteered or through money contributions. Not enough of us are taking action, to combat this challenge. The world is a complicated place to live, and each of us are neighbors. And in our neighborhoods we watch out for those next door and for those down the street.

Well the earth is getting smaller and now those houses next door are really cities. The ones down the street include countries like Mexico, Canada and all the nations of the world. They need our help.

As citizens of the United States we must care about each other's lives equally. We can make this great country of ours the best place on earth, through mutual understanding and the willingness to help our neighbors. If you remember 200 hundred years ago our country was founded on the principle that all persons are created equal. Let's turn that into reality, and make the earth a home too all. We are not only citizens of the United States, we are citizens of the world.

New spring science course to examine 'the history of ideas'

by Phyllis A. Saimons

A new course, the History of Science will be offered for the first time to Embry-Riddle students in the Spring semester of 1990. The class will be team taught by two instructors: Dr. Robert Fleck, Professor of Physics, and Dr. Robert Oxley, Associate Professor of Humanities and Social Sciences.

The History of Science is listed in the Spring 1990 Schedule of Classes under two categories PS 395 as well as SS 395, meaning that it may be counted in a student's degree program as an upper level elective in Humanities or Physical Science (but not both). Before registering for the course, students should have completed one Humanities course (HU 123, HU 140, or HU 141) and one science course (PS 101, PS 102, PS 103, PS 104, PS 195a, or PS 201). The class will be held on Monday, Wednesday and Friday from 13:30 until 14:20.

"The course format is not strictly history and merely not science," explained Fleck in a recent interview, "but emphasis will be placed on how the two interrelate. We will emphasize the humanistic element in science. It is an intellectual history - the history of ideas."

The two instructors, who expect to learn a great deal from each other in the process of teaching this course, will address the manner in which scientific ideas affect everyday life through history. "There are numerous examples of science shaping the lives of people through the centuries," said Oxley.

As an example, half the population of China died due to a plague in a 170 year period (1200 -1370 AD). "Imagine the explanations that must have abounded among the Chinese in a time when little scientific knowledge was available," Oxley noted. "There are many such examples of death due to then

in fact, consider the role sciences have played in the shaping of Western civilization. Major figures to be discussed include Aristotle, Copernicus, Galileo, Newton, Darwin, and Einstein.

The History of Science will survey the development of science (natural philosophy) from the earliest times through the modern period. Lectures, discussions, and readings will be concerned with the origin, transmission, and evolution of scientific ideas, with particular emphasis being given to our changing conceptions of nature and science itself. Rather than merely describing and expounding upon scientific discoveries, this course will probe more deeply into historical processes in order to give the student an appreciation of interconnections of events in the making of the modern world and of the modern mind.

Students who enroll in the History of Science will gain a better appreciation of the humanistic feature of science, often sadly neglected in traditional science courses. Non-science majors should gain a better understanding of the basic concepts, methodology, and limitations of science, making them better prepared to integrate into today's highly technological society.

The course requirements are typical of upper level courses. It is expected that in addition to exams, a written project will be assigned. The History of Science will be distinctly different from other courses offered at Embry-Riddle, such as

see HISTORY, page 8



photo by Mark Frideres

In the beginning... Dr. Robert Fleck and Dr. Robert Oxley plan to steer a course for a new class in science history.

unknown biological factors, which were blamed on a variety of things, including particular races of people." Fleck feels it is very important to point out that the History of Science is not just a chronology of scientific discoveries ("That would be a boring course") nor is it a problem solving course. It will,

Professor discusses flight related medical issues

by Brian Cerni

Campus News Reporter

Sponsored by the Embry-Riddle Flight Team, Dr. Richard Reinhart appeared on campus last Friday and Saturday to address flight related medical issues, especially the FAA medical exam, and airline health standards.

Many flight students on campus are understandably concerned about their futures and whether anything can or will inhibit them from achieving their goals. Although many of the qualities which make a good pilot are in one's own control, medical qualifications always seem to surface as an obstacle.

As an FAA Aviation Medical Examiner (AME) and an Air Force Flight Surgeon, Reinhart is also president of his own consulting firm, and often speaks about medical issues at Future Aviation Professionals of America (FAPA) conventions. "There's a lot of misin-

formation out there," Reinhart claimed and feels a special concern to educate aviators as much as possible on health issues. He had some interesting stories to tell which reflected the power the FAA holds when medicals are concerned

"Unfortunately, the FAA has a reputation...and my role here is not to defend the FAA," Reinhart said but admitted that as MEA's main purpose is to personify the FAA "I am very sensitive to the fact that I represent a threat to you."

The main points of Reinhart's discussion centered around using the medical system to one's own benefit. Of utmost importance is finding a doctor (MEA) who has a good working knowledge of that system and will present your medical interests to the FAA, not let you

send for yourself. Reinhart also stressed the importance of keeping a complete medical file

see MEDICAL, page 8

"Unfortunately, the FAA has a reputation...and my role here is not to defend the FAA..."

Dr. Richard Reinhart

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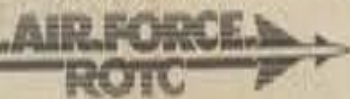
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# 'Attitude Adjustment' brings two performers to stage

by Greg Naccarato  
Campus News Reporter

A Morrison's Cafeteria dessert went into a low earth orbit Friday night, propelled by Dawn Reed, the first of two comedians for the evening's Attitude Adjustment. With the dessert just clearing a partition behind the stage, a casualty count is not available.

Dawn Reed opened the performance wearing a white Embry-Riddle T-shirt, and black baggy pants. He immediately started in by asking the audience to clap to the beat and shout "Ooh baby, baby! Ooh baby, baby!" While he danced.

He then mimicked peoples hair styles through sound impersonations thus reflecting their personality. One person's hair was "very flowing and broad" and Reed responded like an opera singer.

Reed's performance was one geared to audience interaction, and doing sound effects and impersonations like that of Rich Little.

At various times he asked "Please come with me into the Twilight Zone. Imagine a man in the middle of a disco floor. The offbeat dancing man in the Twilight Zone." Reed then prompted the audience to clap, while he danced offbeat. Later Reed did a Sammy Davis, Jr. disco transformation, again he danced like the character of Davis.

At one point he went to the back of the stage to say hello to those dining on the other side. Some person threw an apple wedge at him which missed. A dessert was handed up to him after this, and the audience clapped and yelled for him to throw it back over. He did, with the dessert going over and the plate hitting the partition, landing at the back of the stage.

Next Deanna Burt had a chance to play "Win a Dollar." Reed sounded out themes from T.V. shows and Ms. Burt had to guess them. The first theme from the "Rockford Files" was played by Reed for about a minute before someone else in the audience guessed it. Since Ms. Burt didn't guess, the song did not count. On the third song she guessed "I Dream of Jeanie" and Won the dollar. Now The

guy who donated the dollar had to whine to get it back. He did so with a little persuasion from the audience.

For a final bit, Reed performed a medley of every character mentioned throughout the act, dancing on the disco floor in the "Twilight Zone."



Dawn Reed

The next comedian seemed to have trouble with the microphone stand all evening. His name is Melvin George and you may remember him, since he performed at ERAU last January. George came out dressed in a blue blazer, gray slacks, and red tie that



Melvin George

was made form part of a belt. Black loafers completed his ensemble.

He first asked "What's cool?" to the crowd, replying rhetorically that New York traffic cops are cool. He parodied the cop by making stop, go, and turn indications with his hands. Meanwhile throwing in dance movements to make the hand signals fluid.

George then said "You know your limits, when you say Oops. Or you come to Embry-Riddle on a football scholarship, Oops."

He then related his flight down to Daytona Beach and how he hates flight attendants who do the "Safety dance" when pointing out the safety features of an aircraft.

George if good humor related he drives a 1988 "luxury Chevette" with

manual speed cruise control and a hack saw sun roof. He also said he has a radar detector built into his glasses. Every time he runs into a speed trap, his eyes go blurry.

Some of his solutions to beating speeding tickets are a small piece of

garlic or to practice pitiful looks in the mirror. George then asked for a round of applause for Dawn Reed.

Continuing the crowd is told "If you can't get to a comedy show, you can have fun in the privacy of your home." If we are guests at someone's home and we really want to freak the host out, we ask to use the bathroom and take a bath. Or go to a restaurant that displays a sign saying "shirt and shoes required" and take off your pants.

George then related stories on love

mentioning "premarital cohabitation" to find out each others idiosyncrasies. And that you must make yourself happy for successful relationships to occur. He also said he respects his wife, only he doesn't respect men who call his wife.

Acting out a T.V. commercial for "25 years of Mowtown Choreography," George danced styles reminiscent of that time period. A young Michael Jackson and the Jackson Five was portrayed in the skit.

"You have been a most wonderful audience," said George in closing. Someone from the crowd replies "the best." The comedian allowed time for questions, which entitled a student to ask "Why do you have two watches?" "One gives me the time and one lights my way," (referring to his watch cigarette lighter) answered George.

Melvin George has been performing for the last 16 years and has shown his routine for many different audiences from cabarets to colleges to outdoor theaters to prisons and to high school and senior citizen functions. He has also done shows on Broadway.

His material originates from life itself with a spot of truth and modifying it or telling it like it is.

George hates tense situations and pressure. Because of this he started acting professionally, since he got fired from every other job. He never took the job seriously, like his employers wanted him too. When a stressful event did occur, George dealt with it the only way he could. With comedy. "If people are laughing, they can't voice their anger," he said.

When performing he feels no pressure on stage. If a heckler starts making comments, George's wit kicks in and returns the fire with spontaneous shots that usually quiets the heckler.

As a farewell statement to students at ERAU he said "I just want students to have as much fun in school as possible. Once you are out in the real world, there is not much support." Referring to the fun, George remembers his college times and said "I had the school to hide behind."

## Student Government

by Chris Auger  
Special to the Avion

During the meeting of October 31, 1989, the Student Representative Board listened to a presentation by Dr. Ledewitz explaining how the school spends our tuition money. He also talked about the fundraising project Commitment 2000. A SRB Committee was formed with the purpose of creating a project with the project fund budget. This project could be a Christmas party, etc. Tanes Praseriphon, Engineering Representative, will be setting up a suggestion box.

John Luke reported that the Building & Grounds Committee is looking into building a bridge over Clyde Morris, this must be coordinated with the DOT. It was proposed to build a new dormitory to house 900 people, this would include selling AC I and AC II first. Bike lanes were also discussed.

The SGA fee increase proposal was discussed and passed by the SRB. This means if it is passed by the University Tuition and Fees Committee the SGA fee would be \$30 for Fall 1990. The Sports Fee increase was discussed in length and it seems the SRB is against it. The vote was 5 yeas, 6 neas and 2 abstentions.

It was also stated that the SRB needs to appoint a new Engineering Physics Representative.

The SGA flea market was discussed and was determined it would be held on December 2, 1989. The sign-up sheet to reserve a table is posted in the SGA office for any students who are interested.

## Student Representative Board Meetings

Wednesdays, 4 pm  
University Center Meeting Room

Student Representatives discuss and resolve current issues affecting student body. All students welcome!

## Student Representative position open

The SGA is currently accepting applications for the new position of Engineering Physics representative. For more details, stop by the SGA office in the University Center.



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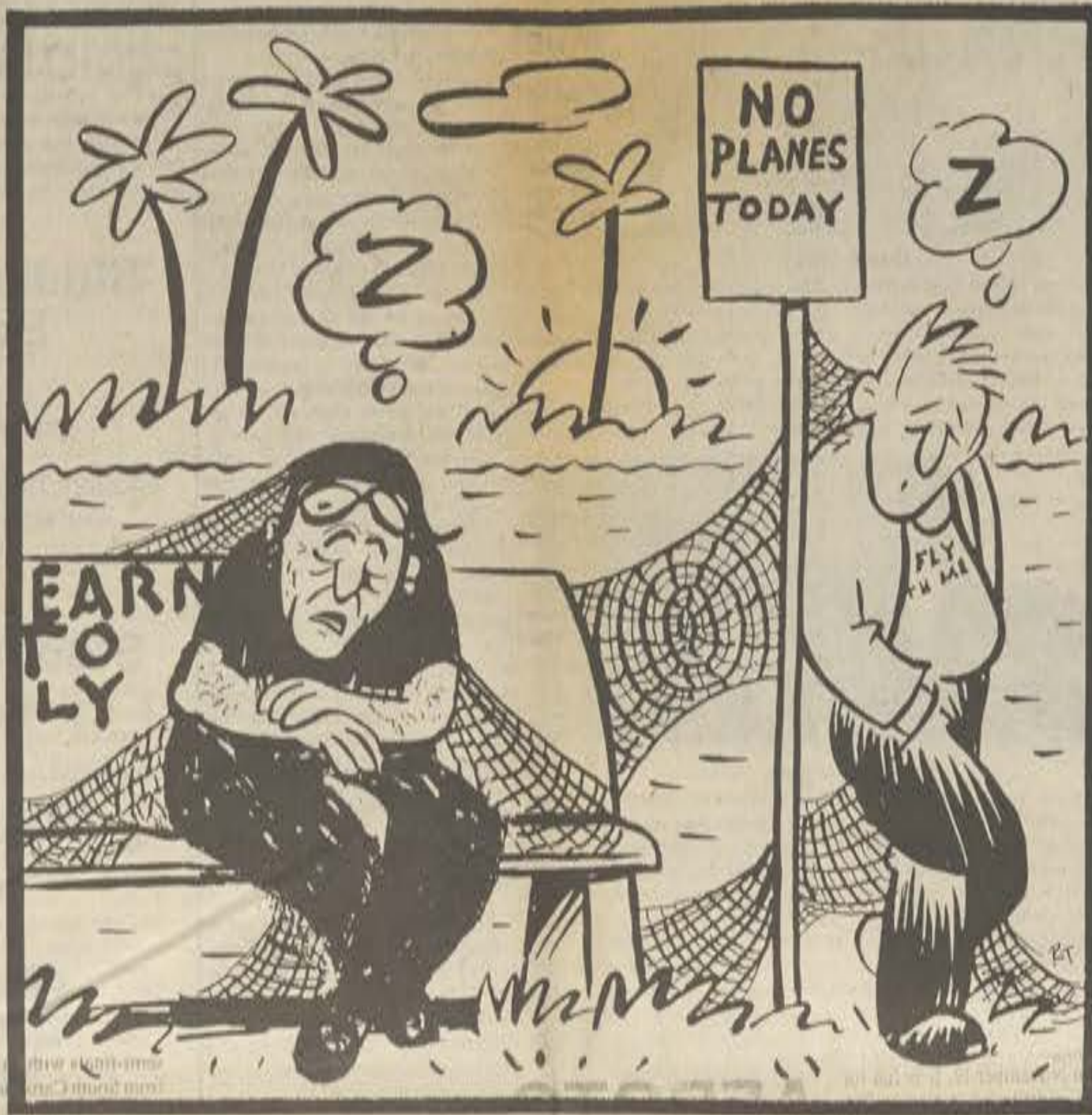
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## Brothers of the Wind

by Delannor Mance  
Club Correspondent

This coming Friday, November 10, 1989 at 13:30-14:30 in Room A-111 Commander David Brewer, U.S. Navy Assistant to the Chief of Naval Operations will speak. The topic will be "Good Habits + Goals = Success." This event is co-sponsored by the Naval Aviation Club and is for the benefit of everyone. Please attend.

The club began selling mugs on Tuesday. You still have a chance to purchase one in the University Center during the homecoming festivities.

All members, you are hereby notified of the upcoming elections for officers and executive board members. Attendance at the regularly scheduled club meeting and your respective committee meetings for the remainder of the semester is mandatory so you can obtain additional information and complete the process. No excuses!

The annual "Feed the Hungry"

dance will be held on November 17, 1989 at the Days Inn, admission \$2.00 and or 2 cans of food per person.

This Saturday the club held its second "Def Jam" at the Days Inn, once again it was very successful.

Don't forget December 1, 1989 is drawing near, and you have very little time to purchase your ticket for the Christmas Banquet/Dance at the Daytona Hilton. Don't procrastinate! Contact Courtney Crockett and or Leroy Young to obtain further infor-

## Christian Fellowship

by Bruce Robbins and Steve Jacobs  
Club Writers

It's been a while since you have heard from us, but we would like to say that we are still alive! Very alive in fact. So far this semester we have had our regular meetings every Saturday at 6:30 pm in H-113 (on the flight line). We have just recently had a picnic at Blue Springs, and plan to attend a Carmen concert coming up November 16 at the Peabody Auditorium.

This past week Darrell talked about trust, and based his discussion on Proverbs 3:5-6, where it says, "Trust in the Lord with all your heart, and lean not on your own understanding; in all your ways acknowledge Him, and He will

make your paths straight." He broke this passage down by analyzing each section, and emphasizing each main point. Concluding that the Lord is always the same person, and that trust requires yielding to God's will, not trying to correct Him, and making a foundation based on Him, with the end result being that He will guide your life.

If you would like more information about the club's upcoming events, or just about the club itself, you can show up the meetings on Saturdays at 6:30 in H-113, all are welcome, and encouraged to come out. If you can't make it, but would like some information, contact Troy or Steve at 258-7205.

## Management Club

by Rich Strollow  
Club Secretary

The Management Club would like to welcome aboard new officers: President, Tracie Anderson; Vice President of Marketing, Rick Henningson; and secretary, Rich Strollow. They are sure to be a valuable asset to the success of the club this semester.

The dinner meeting with Rick Larsen, of Midway Airlines, was very enjoyable. A good time was had by all in attendance. Mr. Larsen provided valuable insight to club members about the inner working of an airline. He also shared his feelings on how to make in the tough airline industry and often unforgiving environment.

There are many exciting upcoming events planned for the remainder of the semester. On November 7, Hooper Harris, an accident prevention specialist from the FAA's Flight Standards District Office will be our guest speaker. Mr. Harris will discuss safety in regards to Airline management and maintenance. The presentation will be held at 7 pm in Rm. 6613.

On November 16, Doug Smith, Vice President of Marketing and Sales for Piper Aircraft, will speak to the Management Club in conjunction with the AAAE. The meeting room will be W306 at 7:30 pm.

November 18 will be the date for the club's trip to Hop-a-Jet in Fort Lauderdale. Hop-a-Jet is a Learjet charter company run by Harvey Hop, who is one of the highest time Lear pilots in America.

Beginning on November 7, Management Club meetings will be held every other Tuesday at 7:00 pm. All are welcome to attend.

## Riddle Riders

by Tad Bridges  
Club Reporter

Instead of having a ride this weekend, the Riddle Riders met at the Daytona International Speedway. Our club president, Ski-Man, raced in the 600cc super-sport endurance race, 14 laps-50 miles, on Friday. Sie started 43rd and finished 36th.

Ski-Man also raced in a heat race, 7 laps-35 miles, Saturday, starting 71st and finishing 41st. He races when he can for experience until he graduates and can pursue racing on a higher level. Good Luck Ski-Man!

The Riddle Riders will be hosting the Daytona Beach police department and a representative from the E-RAU Security Department at our meeting Thursday November 9, at 7:30, in room B-506. We will be discussing attitudes toward motorcycles and trying to improve our image.

We will also be having our annual Poker run November 19. It is fun for everyone and the area Motorcycle dealers have contributed numerous free prizes, so don't get left out. See you there.

## Windsurfing

Thanksgiving is just two weeks away! The club will be making its annual trip to the keys for that weekend. If anyone is still interested try to contact Ed as soon as possible. The club will be leaving late Wednesday and returning on Sunday. Overlooking any problems or delays that usually occur on the way down, it should be a

great trip.

The windsurfing club is selling Jepsen Sanderson products at reduced prices. Anyone interested contact Student Activities.

Well now that midterms are over I hope everyone is finding time to relax and enjoy some windsurfing or other activities.

### CLUBS POLICY

- ➔ All articles must either be type-written, double-spaced or on disk (unformatted 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) 239-6049.

## ERAS

by Michael Fried  
Club Treasurer

Tonight is the important yearly elections. All candidates must give a brief speech as to why they want to become an officer. All positions are open to anyone and feel free to become one of the few the proud "an ERAS officer". Members please attend as every vote counts.

Next week is Mr. Gatti's night, we supply free drinks and a movie and you supply your own food. What a Blast!

## AAAE

by Erinn Moore  
Avion Correspondent

If you missed last week's meeting, the trip to Orlando was postponed to a later date due to the research project conducted at Daytona Beach Regional airport. Also, last week's speaker John Makovy from American Airlines was unable to make the meeting.

Some upcoming activities are: Nov

9 Howard T. Walton, instructor of employability skills, will be speaking in room W306 at 7:30 pm; Vice-President of Marketing for Piper aircraft, will be speaking to the club in room W306 at 7:30pm; Nov 18 we will be participating with the Management Club on their trip to Hopa Jet; Nov 30 will be a regular meeting in room E 613 at 7:30pm; and on Dec 2 we will have our Christmas party.

## AFROTC

Detachment 157 was recently presented the Air Force Organizational Excellence Award (AFOEA) for the period from 1 July 1987 to 30 June 1989. Brigadier General Jeffrey Ellis, Commandant of AFROTC, presented the award to Colonel Hincley at the AFROTC National Commander's Conference held in Fort Worth, Texas. Units receiving the AFOEA have made achievements that clearly set them above and apart from similar units. Det 157 was one of 14 AFROTC detachments to receive the AFOEA. There are 151 AFROTC detachments nation-wide.

Detachment 157 continues to boast the largest Professional Officer Corps in AFROTC and, has produced more commissioned officers and pilot candidates over the past five years than any other unit. During the past two years the detachment commissioned 97 new second lieutenants. Seventeen were distinguished graduates and ten received regular commissions. Sixty nine cadets attended summer field training in 1988 and 67 attended in 1989.

## Flight Team

by Michelle Boulianne  
Club Representative

Congratulations to our new members who are: Hector Arencibia, David Arribas, Steven Brazao, Amy Brimeyer, John Foley, Shawn Phillips, Keith Plumb, Kevin Sheppard, Joe Simpson, Kirt Williams, and Larry Worley.

As previously mentioned the Flight Team will be selling hamburgers at Homecoming. All non-competing members are encouraged to join in on the festivities.

Thanks to Dave Farman and Keith Plumb who went to the Ocala Airshow on November 4 to represent the University. The morning of November 9 six team members will escort a group of fourth graders around campus. Six members will be lecturing sixteen classes at Volusia County Elementary School for their career

days on November 6, 7, and 9.

New members - don't forget to pay your dues as soon as possible.

Don't forget the FSS is having a seminar in the U.C. on November 14 at 2000.

Jay Maiato gave the Safety Briefing last week on ELT's. He stated that there are many deficiencies in this emergency system. There are only two American satellites that pick up ELT frequencies. The satellites are not accurate and it may take weeks to find a downed aircraft and its passengers. So do not put all of your faith in an ELT. One of the best safety factors to take is to file a flight plan with the FSS. Be on the safe side and don't take chances!

Good luck to all of our competitors who are now in Tuscaloosa for Regionals. Let's hope they bring home some trophies!!

## Eagles Wrestling

by Roger Corzine  
Club Reporter

Embry-Riddle wrestlers dominated two-weight classes at the Space Coast Open Wrestling Tournament on Saturday, October 28. The tournament was held in Palm Bay and yielded competitors from West Orlando Community College, Seminole Community College, Merritt Island, Palm Bay, University of Central Florida, and South Carolina State.

Two Eagle wrestlers entered the 142 pound weight class. Both wrestlers finished in the top 5 in a tough division. Scott Wariner advanced through the bracket to the Quarter-finals. He was upset by Jeff Pennington from Merritt Island. Scott came back through and wrestled backs to take fifth place. Roger Corzine, on the other hand, survived the quarter-finals. He won his bout in the semi-finals with an impressive technical fall (15 to 0) over Bobby Cranative from South Carolina. In the championship match, Roger overcame a low-point deficit in a 5 to 4 victory over UCF's Angelo Echevaria.

The 167 pound weight class also featured two ERAU wrestlers. Jorge Bodia and Yousef Suleyman both finished in the top four. They both posted outstanding victories in the tournament. Jorge grappled his way into the quarter-finals but fell short in a disappointing loss to Timothy Randolph of Seminole Community College. In consolation action, Jorge came up with a pin in the second round of a UCF wrestler. He had only the bout for third place left. Yousef also was disappointed in the quarter-finals. He won his next match with a come-from-behind pin. His victory set the stage for an exciting face-off between Jorge and Yousef for third place. When their bout was over, Yousef won the match by a score of 6 to 1.

After the tournament was over, the Eagle wrestling team had accumulated 11 team points. That wasn't enough points for any team awards, but individually, ERAU was outstanding. Congratulations to Scott, Roger, Yousef, and Jorge. Currently, Roger Corzine and Yousef Suleyman lead the Eagle wrestlers. Roger has accumulated three top 3 finishes out of a possible three, while yousef has two top 3 finishes.

Get your revenge and embarrass your friends...

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## SGA Flea Market

Saturday, Dec. 2  
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# LETTERS

(continued from page 2)

shoe as was done by many other individuals from all other Fraternities. I did this not only to advertise my fraternity to all the people at school for Rush, but also because I consider it a personal honor to be a member, and I'm proud to let people know of my association with this organization.

The other day, something disturbed me greatly, enough to write this letter. I walked out to my car after classes to find several profane words and pictures scratched into the shoe polish on my windows. This act I consider a personal insult, not only directed towards me, but to every member of my Fraternity, past and present. This act goes beyond the individual, as the insult was written on the Greek letters of my fraternity, which I hold very dear and which represent everything about us.

In my Fraternity, I was called to take an oath, and a part of that oath was a promise that I would never do anything to discredit the Fraternity. I honestly believe that I have not broken this promise, so some individual must feel that I am worthy of their abusive actions solely for being a member.

Now, I'm not sure if the culprit of this act was another Fraternity or not, as no real clues to this person's identity were evident. If it was just any student, I would guess that it was done to me out of ignorance, just for the fact of mocking a Frater-

nity in general, as perhaps this individual dislikes all Fraternities. From what was written, however, I suspect that this was done by another Greek, which disappoints me to no end. I simply can't understand why there is malicious intent among Fraternities, especially after such recent successes as the Toga Party, Meet the Greeks and Greek Week, where all of the Greek organizations came together to have a good time with no hard feelings. We should really all be striving together to succeed at this University and be supportive of each other, not to slander or insult one another.

Every word of this letter comes from the heart. My Fraternity is a part of me, of my life. I have no ill will towards any other Greek organizations, nor anyone at school. If anyone reading this letter doesn't feel the same way towards me, I would very much like to hear from them their reasons why, because perhaps it's my fault and I may be able to correct it. Please respond through another letter to the editor, or write me personally. I would especially like to hear from whoever wrote the obscenities on my car, whether this person has the courage to confront me directly or through an anonymous letter. I don't want to start any trouble, but I only want to know why.

Fawaz Atchoo  
Box C206

# STONES

(continued from page 15)

The next year, other than bringing several unwanted birthdays, mostly marked a year of drift for the band's members. July 28 brings Keith Richards and his wife Patty a daughter, Alexandra Nicole.

Throughout 1987 rumors that the band is finished circulate wildly as tensions between Mick Jagger and Keith Richards become more apparent. A March interview with Bill Wyman by a British video channel receives the following hopeful answer from the question, "Is the band kaput?" Wyman responds, "It looks that way. It's a pity we didn't go out with a bang, but instead with a bit of a whimper." During May, Mick Jagger and Jerry Hall saw Living Colour (the band's current touring partners) for the first time while in New York. *Primitive Cool*, another Jagger solo album, was released.

Late in 1988, Jagger and Richards met to discuss some of their respective published comments and apparently came away with at least an understanding. Richards releases his first solo album, *Talk is Cheap*.

January of this year marked the band's induction into the Rock'n' Roll Hall of Fame, and the band was almost all present for the ceremony. Just one day later, Richards and Jagger headed for ten days of reclusive writing in Barbados. With the album finished in "record time", the album *Steel Wheels* hit record stores on August 29 and the Steel Wheels Tour began in Philadelphia on August 31.

The Stones are set to play two dates in both Tampa and Miami this month, with a Thanksgiving weekend date in Jacksonville.

(Research accomplished by Bill German/Beggars Banquet.)

# ERIK

(continued from page 14)

bolisms are mixed into the screenplay, but in a sufficiently foolish manner to render them forgettable. A Christian priest on the ship, for instance, is unable to see a sea serpent or the Norse gods.

An island of utopia containing a throng of tone deaf inhabitants offers a dozen symbolisms that end up mostly cast by the wayside. The peace-minded utopianists, it seems, are sentenced to death at the moment that a drop of victim's blood touches the island's soil. Various sub-plots which introduce the obligatory antagonists are responsible for the island's destruction. The villagers, unbelieving of their certain deaths, do not accept rescue and drown with their sinking island.

As the film plodded on, myself and the other member of the audience wished that John Cleese, who played one of the antagonists, would suddenly say, "And now for something completely different." This was not to be, however, and soon the audience had shrunk to one.

Feeling an obligation to stay, unlike the rest of the audience, an analysis seemed the key to filling the remaining fifty minutes of the one-hundred and ten minute movie. The most obvious shortcoming of the film was its lack of financing. The sets were quite often pitiful and patently fake, though even that can be overlooked in the spirit of a screwball comedy. With the spirit absent, however, things of lesser significance became of greater interest.

To further compound my disappointment with the film, a parade of theater employees almost taunted me with phrases like, "bad wasn't it" and "I think you are the eighth person to see it this week."

To conclude, when this movie comes to videotape, probably in a couple of weeks, pay the next viewer the decency of not rewinding the tape hopefully it will give them time to change their minds about watching it.

# ROTC

(continued from page 1)

After the "Quest" was done, the MC announced that the next act would be doing a "David Letterman Thing." As the MC promised, it was indeed a "David Letterman Thing."

The act featured Safety Officer Disaster Dave, Top 5 Reasons For Not Buying a Military Ball Ticket, Dorm Rats and Stupid Flight Commander Tricks. The act ended with the thorough soaking of one of the flight commanders who participated

in the Stupid Flight Commander Tricks.

As a last act, a large group of cadets did a dance/lip sync of the B-52's "Lovesick" featuring red light and a lot of audience applause.

Overall, the audience enjoyed the performances given by their classmates and friends. It was a night of much needed stress relief for everyone who came.

Now Detachment 157 has their annual Lip Sync in the Spring to look forward to.

# CRASH

(continued from page 3)

located.

It also states that student pilot Peter Murray, who died 17 days after the crash, turned his Beechcraft right after takeoff instead of using the standard left-hand traffic pattern stipulated for uncontrolled airports.

Although the report does not make any recommendations for preventing future collisions, Ghiorso said officials at the Warren County airport removed the weather frequency following a dialogue with investigators.

James and Sharon Wells, parents of the three siblings killed in the crash, are seeking \$24 million in damages from the county in a lawsuit that also targets the Federal Aviation Administration and the estates of the two pilots.

Three of the Wells' children, James, 16, Jacqueline, 15 and Rebekah, 12, were passengers in a Stinson piloted by 47-year-old Loughran Boggs of Bolton Landing.

Boggs, the Wells children and 60-year-old Willard Ousterhout a flight instructor in the second plane were all pronounced dead at the scene.

The midair collision came just four days after the FAA removed its flight service station and installed less-expensive automation equipment at the Burlington, Vt., Flight Service Station.

# MEDICAL

(continued from page 4)

with your doctor. The Federal Air Surgeon in Washington has the ultimate authority on who will fly, but can only make decisions based on the information given to him. Therefore it is a pilot's responsibility to keep the doctor informed of any changes in one's medical status and make sure that all information is complete.

Although no one is immune to the possibility that a medical problem could render one grounded, the best defense, Reinhart explained, is for one to know themselves, and start working on changing an unhealthy lifestyle. "You cannot cram for a medical exam," said Reinhart. He suggested following a usual diet, avoiding excess smoking and alcohol, and getting familiar with one's family traits.

# HISTORY

(continued from page 4)

"Technology and Modern Values," which emphasizes the development of technology and its influence upon Western values.

The instructors will add a mix of their individual disciplines to address the course in a humanistic/scientific manner. Fleck holds a Doctor of Philosophy from the University of Florida, his specialty being Astrophysics. Fleck is a member of the History of Science Society and recently attended its annual meeting in Gainesville. Fleck will present a seminar on "Native American Astronomy" which is open to all Embry-Riddle students, faculty, and staff, November 30.

Oxley earned a Doctor of Philosophy from the University of Wisconsin, specializing in comparative literature. He designed the Embry-Riddle course entitled "Technology and Modern Values," which he teaches frequently. Oxley is a member of the Society for Literature and Science and recently attended its conference at Rensselaer Polytechnic Institute.

Students who have ever wondered about the history of ideas and the development of how those ideas were integrated into the mainstream will enjoy the History of Science. From the Egyptian and Babylonian practice of celestial forecasting, through ancient Greek science, medieval and renaissance science, the scientific revolution, to modern day advances, politics, and philosophy, the History of Science will be unlike any other history or science course offered at Embry-Riddle.

# E'PRIME

(continued from page 13)

recently relieved all but key personnel after the pad mishap last month.

The company plans to have its first launch in the third quarter of 1992. At present, they are not publicly announcing any contracts. They expect to compete with other geostationary transfer launch vehicles such as the Delta II, Ariane IV, Atlas-Centaur, Titan III, and the Soviet SL13 and 16.

Profits in both monetary and scientific value are to become of commercial space. E'Prime Aerospace is one company hoping to benefit from commercial space and is looking forward to a bright future. The world awaits the benefits from its technology.

# WATER

(continued from page 9)

to 30 inches a minute. Some thicker parts of titanium require slower cutting speeds, such as one-half inch a minute.

The robot-controlled waterjet provides the same quality finish to metal and composite parts as manual waterjet cutters do, which means the edges are free from burrs and are ready to use in assembly.

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## Month long strike cripples Boeing Grumman flight tests forward swept wings

by Joe Cambron  
Diversions Editor

A strike by 55,000 machinist workers at the world's largest aircraft manufacturer is now delaying deliveries crucial to several small airlines. Two 757s not yet delivered to America West have delayed the carrier's plans for new expansion to Houston by three months, and Qantas reports revenue losses of as much as \$35 million from late delivery of a pair of 747s.

The now month long work stoppage has brought large delays to the frantic delivery pace that has been delicately maintained by Washington state-based Boeing Commercial Aircraft.

The manufacturer of both military and commercial aircraft is responsible for the production of the world's most popular commercial production aircraft—the 737, the world's largest commercial jetliner—the 747, and the next generation twin jets—the 767 and 757.

Initially, however, Boeing was not as concerned about the delivery delays as one might think. Chronic parts shortages caused by capacity straining production increases have left the company with literally dozens of jets missing as many as two thousand smaller parts each. Reportedly, subcontractors who provide the parts have actually hoped for such a work stoppage in order to catch



Better late than never...

Airlines expecting delivery of Boeing's new 737-500 will have to wait as a painful machinists strike continues.

up with their parts deliveries. Now, however, delays have become critical, while at the same time negotiations with workers have worsened.

Boeing, seemingly, would be under pressure from airlines to end such a strike and thus return its already delay-plagued programs to production, but airlines recognizing that large pay increases for Boeing workers will be translated into higher transport prices have relented in their forceful desire to prevent late deliveries of their aircraft.

Talks between Boeing workers and the company stalled after Boeing offered its final contract offer

to employees. Sources say that Boeing is offering pay increases of about 10%, compared to the 40% requested by Boeing's Machinists Union leaders.

Boeing's most recent contract offer continued the company's policy of offering about a 10% raise in pay above the cost of living. Employee leaders referred to the plan as smoke and mirrors which yielded few real benefits. Union officials argue that Boeing profits, which totaled several hundred million dollars last year, entitle them to a larger share of the company's revenues. These profits, however, represent the spoils of the largest airline aircraft buying spree in history, and management believes that surrendering further cost advantages to Airbus Industrie would be foolish with future order growth un-

certain. Currently, management staff are readying the dozens of mostly completed planes sitting on Boeing's ramps outside their Washington facilities. Boeing officials noted that these workers would be undertaking "small projects, nothing as difficult the mating of a wing."

A quick end to the strike is now only a faint glint of hope to both machinists and the manufacturer. Nevertheless, Boeing's future position in the industry is dependent upon the interminable and turbulent negotiations now taking place.

by Brett Messimer  
Aeronautica Writer

The X-29 research plane was designed by Grumman Aerospace Corporation to demonstrate the advantages of a swept-forward wing on an aircraft. The program was initiated in 1981 by DARPA giving the contract to Grumman.

The aircraft looks similar to the F-5 but differs in having canards, larger tail section, different vertical stabilizer and a swept-forward wing.

Since other aircraft which have been flown with a forward swept wing have experienced problems with wing twisting at high speeds, Grumman used a specially designed cover on the wing to minimize twisting.

The wing structure is built using conventional metals, and is then covered with a cover built of composites. By laying out the composites in a certain pattern, the wing cover is custom made or tailored to provide additional strength. The tailoring provides the wing with a surface that will flex with aerodynamic loads, but not twist.

The wing uses a variable camber trailing edge device to maintain the best configuration possible during all phases of flight.

The canards are the main pitch control surfaces, and also provide additional lift. The canards energize the air flowing over the inboard wing area, keeping the wing root from stalling before the rest of the wing.

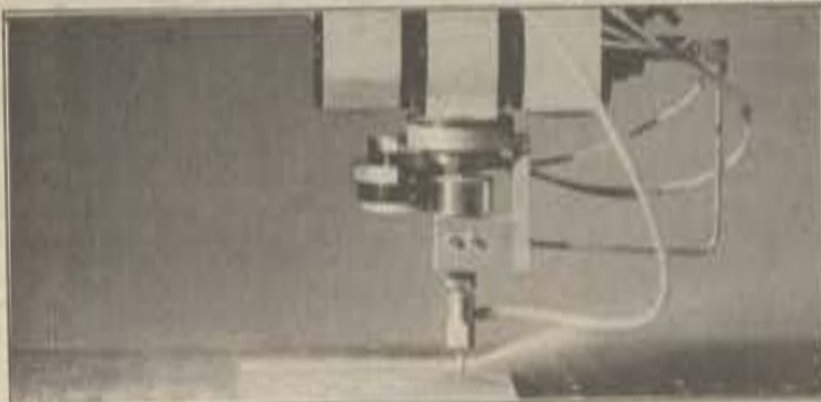
Because of this and the fact that the air flows from the tip of the wing to the fuselage, the X-29 can fly at higher angles of attack than a conventional airplane, longer without stalling.

The X-29 has small flaps on the trailing edge of the wing near the engine exhaust nozzle. The flaps deploy with the canards to provide additional pitch control during flight.

The X-29 uses a triple redundant digital flight control system, with an analog backup system in case of main system failure. The fly-by-wire flight control system's computer has mission adaptable software that can be changed before each flight. This varies how the airplane handles, depending on the mission of the test flight.

**The canards are the main pitch control surfaces, and also provide additional lift...**

## Lockheed cuts titanium with water and garnet



Water works...

A thick slab of titanium is sliced accurately by a computer guided jet of water under 48,000 pounds of pressure.

MARIETTA, Ga., Nov. 2 - The computerized work station of tomorrow has taken on a new dimension at Lockheed Aeronautical Systems Company - Georgia (LASC-Georgia) with the marriage of abrasive waterjet

technology and computer aided design, forming one of the most advanced cutting tools in the aerospace industry.

LASC-Georgia has already begun cutting production parts for military

aircraft on a newly installed waterjet cutter that allows designers to download cutting instructions directly from design computers. This capability provides even greater savings in time and money over those savings already enjoyed from existing waterjet technology.

"The only thing that limits what we can cut with this new system is the part configuration," said Sandy Fisher, a senior manufacturing engineer who supervised the installation.

With the new robot system, technicians at LASC-Georgia have only to position the material to be cut on the cutting platform. Targets placed on the piece automatically guide the water nozzle into position to begin the cutting operation, Fisher said.

The operator chooses the precision cutting instructions for any particular job from a computer menu, and simp-

ly inputs the command to begin the process.

The six-axis robot-controlled waterjet cutter, which uses garnet powder as the abrasive, delivers a stream of water at supersonic speed - with approximately 48,000 pounds of pressure per square inch - through a hole one-hundredth of an inch in diameter.

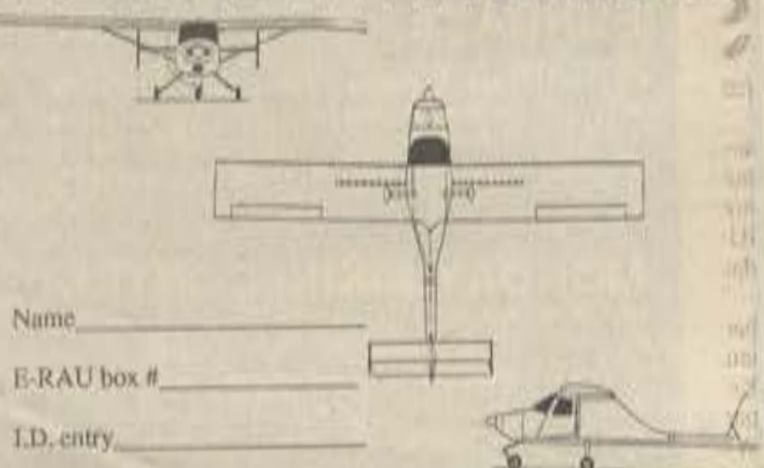
Despite the tremendous pressure of the water being delivered, the cutter uses only about one-half gallon per minute.

Fisher said the complete waterjet work station is a combination of an Ingersoll-Rand cutting nozzle and controller equipment from CIMCORP.

The speed of the operation depends on the material being cut, Fisher said. When the material is thin metal or composite, panels can be stacked and many parts cut at the same time at up

see WATER, page 8

## AERO IDENTIFICATION



Return this entry form to the Avion. The exact answer drawn, as to the identity of this aircraft will win a free submarine sandwich of their choice from Sorrento's Deli. The student publication staff, previous winners, and their families are not eligible.

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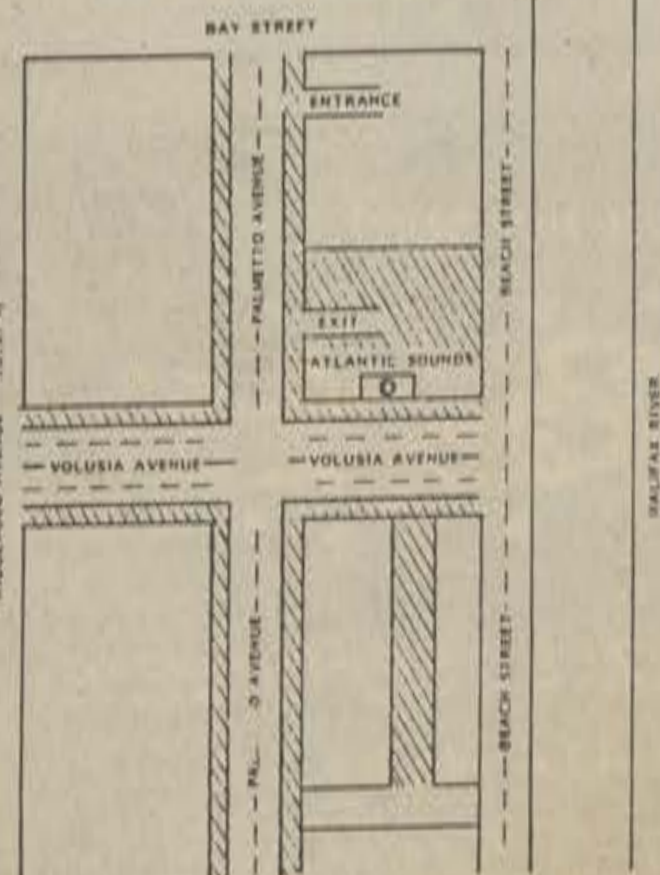
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# RAZZLES

## SUNDAY-LADIES NO COVER

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Ladies \$1.00 drinks all night  
Tuesday is so good were doing it on Sunday

## MONDAY-BIKINI CONTEST

\$100.00 cash prize  
\$1.00 drinks bar and call, 8 till 10  
Two-for-one drinks 10-till

## TUESDAY-LADIES NO COVER

Amateur male dance contest. Win \$100.00 in cash  
Ladies \$1.00 drinks all night long

## WEDNESDAY-CARIBE SUN CARE PRODUCTS PRESENTS DAYTONA'S HOTTEST WET T-SHIRT CONTEST

\$100.00 cash prize from Caribe  
\$1.00 drinks 8-10 bar and call  
Two-for-one 10-till

## THURSDAY-LOCAL NIGHT IS BACK

Everyone drinks free from 8-11  
Bar and call  
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\$100.00 cash prize from Caribe

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THE OYSTER PUB

# SHOOTING THE ROCK

by John Strelecky

This week our university is going to be treated to a number of basketball related events. The events begin on Wed. Nov. 8, at 8:00 p.m. in the University Center where our student body will be gathered to participate in a university wide pep rally. The rally comes complete with our very own E.R.A.U. cheerleaders, the school band, and master of ceremonies J.B. Caldwell (more commonly known for his work as intramural director). Directly after the pep rally the action will move behind the library for some fireside activity. "Burn baby burn" is the theme of this project as there is going to be a bonfire complete with rowdy students and a lot of flames. All of these activities are in preparation for the big event on Friday Nov. 10th at the Ocean Center where our basketball team will take on Nova College in the season opener/homecoming game. The actual game starts at 7:30, but be there at 6:00 to watch the first annual student/faculty basketball game. Admission to the game is free for all students and a shuttle bus will be running from the dorms for anyone in need of transportation.

All right, now that the facts have been presented about what activities are going on, here's something to think about if you can't decide whether or not you want to participate in any of them. How many times have you been walking around campus and either made, or heard the comment "I wish this was a real college" People are often saying how great it would be if the students and faculty had some school spirit. The problem in the past was that there just weren't activities that everyone could go to and get a little loud and a little fired up. After all, what really creates that type of atmosphere, what makes those other schools real colleges? A big part of the answer is the presence of intercollegiate sports. The teams don't even have to be successful, it's just that in order to create that sense of school spirit, the students need a team to support. Well ladies and gentlemen, we've got that team. Last year was the birth of our school basketball program and after just one season they are opening the season at the Ocean Center. That is a big move, and one that is definitely in the right direction. According to head basketball coach Steve Ridder, "This is a golden opportunity not just for our basketball team but for all athletics here, it is a chance to project a great image of school spirit and pride both to the people at the Ocean Center and to the community as well. Personally, I'm anxious to see what kind of support we can develop". The activities at this weeks homecoming festival mark a big chance for the student body of this university to start developing that seemingly elusive sense of school spirit. We have the team to support, we have the activities to attend, we have the place to go and be loud and rowdy, all we need is for the students of this university to take the initiative and make it happen.

There has been a great deal of talk on this campus about whether the students here need or even want a gymnasium. The overwhelming opinion of the people that attend here seems to be yes, a gymnasium is something that would really improve this university. The administration is hesitant about undertaking such a big project however, and one of the big reasons just may be that they doubt students here really support athletics. This weeks activities are a big chance to prove that athletics are something wanted on this campus. Participate in the pep rally, go to the basketball game, and simply show support for our sports teams, it just may make more of a difference than you think.

# Associated Press Top 25

The Top 25 college football teams as voted by the Associated Press are listed with their next opponent.

1. Notre Dame vs. SMU
2. Colorado at Oklahoma State
3. Michigan at #8 Illinois
4. Alabama at LSU
5. Florida State at vs. Memphis State (11/18)
6. Nebraska vs. Kansas
7. Miami at #14 Pittsburgh
8. Illinois vs. #3 Michigan
9. Southern Cal at #25 Arizona
10. Arkansas vs. Baylor
11. Tennessee vs. Akron
12. Auburn vs. Louisiana Tech
13. Penn State vs. Maryland
14. Pittsburgh vs. #7 Miami
15. Houston vs. #23 Texas Tech
16. Texas A&M vs. #10 Arkansas (11/24)
17. Clemson at S. Carolina (11/18)
18. Virginia vs. Virginia Tech
19. W. Virginia vs. Rutgers
20. Florida vs. Georgia
21. Brigham Young vs Air Force
22. N.C. State at Duke
23. Texas Tech at #15 Houston
24. Fresno State at New Mexico State
25. Arizona vs #9 Southern Cal



# MIKE'S FOOTBALL POOL

## Mike's Choice

Indianapolis	at	Buffalo
Minnesota	at	Tampa Bay
Atlanta	at	San Francisco
Chicago	at	Pittsburgh
Green Bay	at	Detroit
Denver	at	Kansas City
Miami	at	N.Y. Jets
New Orleans	at	New England
Dallas	at	Phoenix
N.Y. Giants	at	L.A. Rams
L.A. Raiders	at	San Diego
Cleveland	at	Seattle
Washington	at	Philadelphia

TIEBREAKER: Predict the score of one game. List team with scores.

Rules of the contest: Circle the team that will win the game. Return the game card to the Avion or drop in Campus mail by the Friday before the games. Only one entry per person. The winner will be posted and will receive a free pitcher of beer or soft drink at Kokomo's, the Monday Night Football Place.

Last week's winner was Leslie Whitmer who correctly picked 9 of 13 games.

Mike's record.....Last Week: 8-13.....Season: 63-103

## The Eagles Basketball Team Will Play Homecoming Season Opener! Where?

The Ocean Center

When? Friday, November 10 at 7:30 pm

What else? STUDENTS VS. FACULTY!! at 6:00 pm

TICKETS FREE FOR ALL STUDENTS!

FREE SHUTTLE SERVICE FROM THE DORMS!



## Homecoming Sports

November 4-5 Olympics for Residence Life: 36 teams are competing in 10 fun and competitive events. Events start at 10 a.m. Saturday with the finals played on Sunday.

November 6-8 Sports Competition: The Recreation Department will sponsor Homecoming intramural competition. Volleyball is set for Monday with the finals on Wednesday. Wallyball and basketball will be held on Tuesday. Softball will be Monday-Thursday. All games begin at 5 p.m.

November 10 Golf Tournament: Pelican Bay, 8:30 a.m. Contact Alumni Relations office for details.

November 10 Faculty/Staff vs. Students Basketball Game, Ocean Center, 6 p.m.

November 10 Embry-Riddle vs. Nova University, Ocean Center, 7:30 p.m.

November 11 Alumni vs. Faculty/Staff Student Softball Game, Softball Field, 10 a.m.

November 11 Embry-Riddle vs. Florida State Lacrosse Game, Field behind library, 11 a.m.

Good Luck to all teams!

## Sports Reporters Wanted!

If you are a varsity athlete, a club or intramural sport participant, or you just like sports, you are encouraged to write about it for the Avion. If you have wondered why your sport isn't covered, it is due to a lack of proper coverage. All sports participants are encouraged to write or call in scores and highlights of the many sports activities taking place. Help make your sports page a good one!

Contact Michael Gomm, Sports Editor

# Haven't you crammed Enough this semester?

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Screaming Eagles Model Airplane Club will hold a Static Model Airplane Contest from 10 a.m. - 4 p.m. in the Flight Deck.

**UNIVERSITY WIDE PEP RALLY** - 8:00 p.m. will include introduction of Basketball team, cheerleaders and pep squad in the University Center.

Official Pep Rally **BONFIRE** set for: 8:30 p.m., between softball field and University Center. (Sponsored by the Student Alumni Association. Cheerleaders and music! **CATCH THE EAGLE FEVER!**

**November 9**  
**JAMES DOOHAN SHOW** (Doochan plays "Scotty" on Star Trek.) - 9 p.m., University Center.

**November 10**  
Golf Tournament (contact Alumni Relations office) - Pelican Bay, 8:30 a.m.

**SPIRIT DAY** - Wear your Blue & Gold!!  
Photo and Art Winners Display, Spruance Hall. Throughout the week contest entries will be on display in Student Activities.

Hot Air Balloon - 11 a.m., in front of the Jack Hunt Memorial Library.



**November 10 con't**  
Faculty/staff vs. Students Basketball Game, 6 p.m., Mainland High School Gym. Contact J.B. Caldwell, Recreation Dept. for details.  
**EMBRY-RIDDLE vs. NOVA UNIVERSITY BASKETBALL GAME**  
7:30 p.m. - Ocean Center

**November 11**  
Alumni vs. Faculty/Staff Student Softball Game, 10 a.m., Softball Field. Contact Recreation for details.

Embry-Riddle vs. Florida State LaCrosse Game - 11 a.m., Field behind library.

Alumni Speaker Panel, 11 a.m., Spruance Hall Atrium, Sponsored by the Student Alumni Association.

Parachute Jump, Hot Air Balloon Display & Concessions Open 1 p.m. in Field behind U.C. Opening Act for Concert - Tangier.

3 p.m. **REO SPEEDWAGON** Concert sponsored by Entertainment, a Division of the Student Government Association

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# E'Prime guest speaks on the future of commercial space

by Derrick Seys  
Space Technology Editor

Commercial payloads will no longer be placed into Earth orbit by NASA, instead the task has been directed to private firms with the passage of the Space Commercialization Act of 1986.

One such firm is E'Prime Aerospace Corporation (EPAC) based in Titusville, Florida. The Embry-Riddle Aerospace Society recently invited Kent Cooper, Director of Marketing and Public Affairs at EPAC, to speak on commercial space and E'Prime's involvement.

According to Mr. Cooper, "the commercialization of space is upon us right now." The age of commercial space has developed to involve both large and small corporations throughout the world.

In the US, several small private companies are attempting to compete with McDonnell Douglas, Martin Marietta, and General Dynamics, or the "big three" as referred to by Cooper. The large companies have been able to utilize their past experience and assets to form the base of their commercial programs. In 1989, a McDonnell Douglas Delta II carried its first commercial payload into space. Martin Marietta is developing the "commercial Titan" which is derived from their successful Titan III vehicle.

At a slight disadvantage, but still dedicated, are the small private companies such as American Rocket Com-

pany (AMROC), Space Systems Incorporated (SSI), and E'Prime Aerospace Corporation. These companies have been formed from entrepreneurs that see a future in commercialization of space.

They are developing launch systems in various ways. AMROC is developing its own hybrid rocket and recently had a failure at Vandenberg Air Force Base. EPAC is using an already proven rocket as a base vehicle. The Peacekeeper will be modified from an inter-continental ballistic missile to a space launch vehicle able to place payloads into space.

All of the parties are competing to provide inexpensive access into space. Cooper stated, "the problem with commercial space is it is so expensive to access space, but with technology increasing at the pace it is, we see those costs coming down drastically."

E'Prime's solution is to utilize a vehicle that is very efficient to construct and launch. This allows EPAC to boast a 30-40 percent savings in launch cost over the "big three". This will be achieved using the Peacekeeper missile, called the Prime Mover or PM, as a core boost stage. This solid fueled rocket has 18 successful launches to its credit and only one unsuccessful.

A solid rocket requires less launch support and can sustain long periods of time on the launch pad should any delays arise. A current liquid fueled rocket requires the

fuel to be unloaded if the vehicle is to be safely stored on the pad.

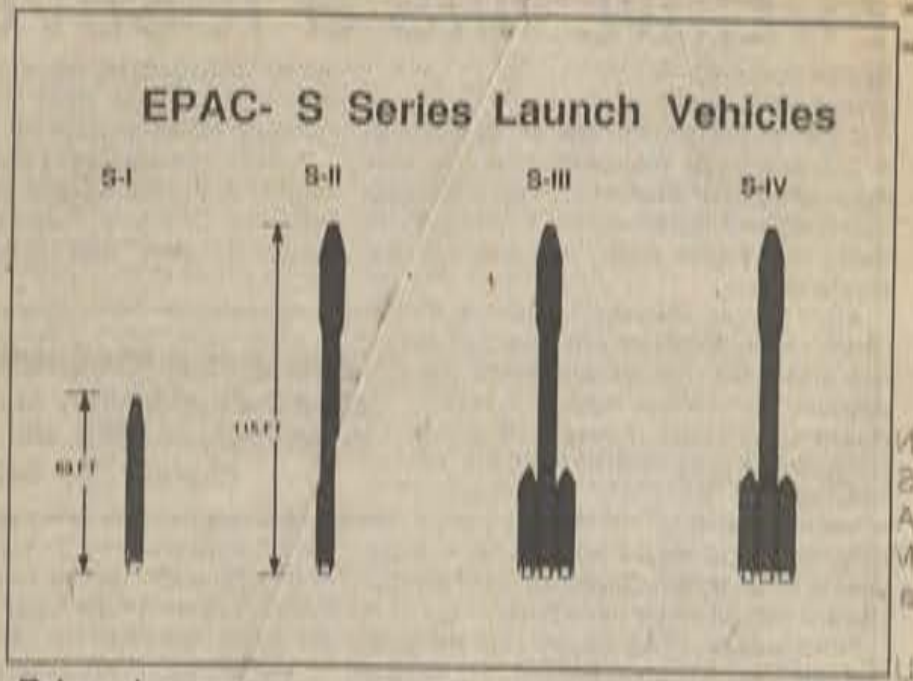
E'Prime is blazing the trail for private launch companies. In November of 1988, EPAC launched the first commercial rocket from a government facility. The launch, designated LOFT-1, appeared insignificant to most.

The vehicle was no more than a large model rocket at 12 feet tall and did not properly reflect the magnitude of its objectives. The successful mission provided invaluable information on the logistics of launching at Cape Canaveral. This information will ease future missions for EPAC.

E'Prime is concentrating on a launch service and is not interested in manned missions. They do not manufacture the PM and will consider launching any payload that is within their capabilities.

They were once approached and asked to carry a payload of toy dolls into space. They followed through with the paperwork and were ridiculed by officials at Cape Canaveral.

The dolls would have been a commercial venture and would promote future activity. Mr. Cooper stated, "the Air Force and NASA do not have the right to tell us what should or should not be launched into space, the American



## Primed...

The E'Prime launch vehicle is based on stacking or strapping several stages of the Peacekeeper ICBM together. The first launch of the S-1 is scheduled for the third quarter of 1992.

public does." EPAC is a small company with only 15 employees and plans to remain relatively the same. Many of the employees have past experience with NASA or other proven launch companies. Some of the personnel have worked on the Mercury program and see E'Prime's endeavor as challenging as putting man into space.

The reason for remaining small is to be cost efficient according to Cooper. They admit that tough times have occurred and may return, but their commitment is for real. This is not uncommon in any private endeavor. AMROC see E'PRIME, page 8



## Past preparations...

Discovery was transported to the VAB atop the Orbiter Transporter. Here, it was stacked to the External Tank and Solid Rocket Boosters in preparation for its upcoming mission. The transporter will speed the processing of future shuttle missions.

## Discovery prepares for launch

by Michael Fried  
Space Technology Writer

NASA has announced that November 20 will be the date of the next shuttle launch. The liftoff will occur sometime between 6:30 p.m. and 10:30 p.m.

Restrictions usually imposed during a Department of Defense (DOD) flight will be imposed.

Managers yesterday concluded the Flight Readiness Review which at its conclusion set a launch date. Contractors and engineers associated with the flight gather for the two day FRR about two weeks before a flight to determine the vehicles readiness.

A small pump problem on pad B has held up loading of the spacecraft

while workers used a replacement pump from Pad A.

The processing time for Discovery was speeded up slightly as NASA used the Orbiter Transporter for transfers from the Orbiter Processing Facility (OPF) to the Vehicle Assembly Building (VAB). With the landing gear already retracted inside the OPF, time is saved in the lifting and mating operations inside the VAB.

The transporter was to be used at the mothballed Vandenberg Launch Site (VLS) to move the shuttle from its processing facilities to the launch pad facilities. In the future, more equipment will be transferred from the VLS to the Kennedy Space Center to modify its facilities.

NASA is continuously bolstering its facilities as evidenced with the new transporter, new Mobile Launcher Platform and the return to operation of Pad A.

This mission marks the first night launch since the Challenger accident showing more flexibility in the launch schedule.

The last night launch was a predawn liftoff of Columbia in December of 1985.

Night launches put the astronauts at more of risk because of the landing conditions. Neon lights will be used to light up the runway at the space center and the California landing site in case of an abort.

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# R.E.M. tilts a festive college crowd

by Joe Cambron  
Diversions Editor

R.E.M. played one of its final Green Your dates in Tallahassee last Wednesday night. The band began with a small parade of hit singles, beginning with versions of "Stand" and the "One I Love", the band's most popular singles from their two most popular albums.

After playing a splendid rendition of "South Central Rain", the band launched its now trademark slide show/audience participation film. "We are happy to be here in (Insert City Name)...Please read aloud, PLEASE DO NOT THROW THINGS AS THEY MIGHT HIT SOMEONE...Let's see if we can hear a pin drop." Never during the evening, however, could the band hope to hear anything as subtle as that with a boisterous Florida college and high school crowd on hand.

To begin the next song, Michael Stipe—the band's lead singer and lyricist—announced "this one goes out to the Exxon Corporation." The band then proceeded to play an energetic version of "Turn You Inside Out", followed by a cover of a song by the D.B.'s.

Next, the band turned back the clock from *Green* to *Document* with "Exhumed McCarthy" in its traditional marching rhythms. The clock then moved backwards to 1983 and the band's first full length album, *Murmur* (recently named the eighth greatest album of the decade by *Rolling Stone*). "Talk About the Passion" was followed by Stipe pronouncing melodically and sarcastically, "Be all that you can be...in the Army" in momentary preparation for "Orange Crush."

Succeeding "Orange Crush" was a spacey guitar whine that slowly progressed into the opening of *Fables of the Reconstruction's* "Feelin' Gravity's Pull." As the crowd noise slowly ebbed like a storm tossed sea, Stipe crooned "Long Way Away/The Stranger."

The 1986 album, *Life's Rich Pageant*, was band's next destination. Stipe continued to rivet the audience, this time by calling attention to three main points contained in "These Days": "We are young, we are concerned, we are hope."

*Green's* "World Leader Pretend" began to the sound of monotone chimes and subtle melodies exuding from Stipe as he struck metal on metal. The crowd, made up mostly of those under twenty, seemed most responsive to songs off of the band's

last two albums, and became almost pensive during slow songs. Milling about actually took place during the band's covers of other band's songs.

A short, warning oratory preceded "I Believe", another welcome refugee from *Pageant*. "I Remember California" followed up on the fever pitch of "I Believe" with a slower, twisting guitar line.

**After a short "encorrial" break that gave Stipe the opportunity to shed his shirt for optimum comfort, the band returned to play "Pop Song '89"...**

Next, Stipe pondered, "I was talking with Vanessa from Pylon (the opening band) and we decided that this was my favorite song." A short version of the current single, "Get Up", ensued.

Another long, metallic guitar solo, complete with Stipe on a megaphone, preceded the "Auctioneer".

Next, a frenetic version of "End of the World as We Know It" demonstrated that the song cannot be sung at regular speed by a normal human being.

was "You Are the Everything" from *Green*. The crowd seemed to meld, mesmerized by the passionate lyrics, "You are here with me, you have been here with me and you are the everything. Sometimes I feel like I can't even sing, I'm very scared for this world. I'm very scared for me."

Most of the crowd became more and more enthusiastic as the concert headed toward its finish. A final brief encore gave way to another lyrical rendering by Stipe. "This is a song of personal and political activism" said Stipe of "Begin the Begin" another song from *Pageant*. The audience followed the song as if reading from a hymnal, dancing and moving to the near closing rhythms of the concert.

Next Drivin' and Cryin's "Long, Long Road" slowly evolved into "King of Birds" from *Document*. "Standing on the shoulders of giants, leaves me cold," enunciated Stipe.

A somber guitar turned raucous for "Life and How to Live It" from *Fables*.

"Finest Worksong" from *Document* again energized the crowd. The crowd chanted, "Take your mind by the reins...what we want and what we need has been confused."

Another bass backed excursion in sweet melody followed with Stipe crooning, "You take the ocean and I'll take the coast" only to see the band close the night after his monologue. The group's customary closing, at least for this tour, aptly titled "Goodbye" wrapped things up for the evening. As Stipe waved to the excited crowd, some of which were probably concerned about school the next day, R.E.M. left the stage the way they mounted it, to thunderous applause.

R.E.M. was supplemented during the evening by an accordionist and a keyboardist, Peter Hotzaple. The band's performance left few not wanting more, but it was not to be. The two hour performance of R.E.M. was about of average length for the tour, though an Orlando date in April extended nearly an additional half hour.

The followers of the band, some from their home in Athens, Georgia, were present in force, although a large contingent of high school converts also muted the upper levels of the arena. Those given the opportunity to visit the band on any of its remaining dates, they extend through a December finish in Macon, Georgia, should seriously consider the almost certainly invigorating tour performance given by R.E.M.



Photo by Brian Galt

## A dose of Athens...






R.E.M. journeys from their home in Athens, Georgia for a rescheduled show in Tallahassee. Pylon, another Athens band, opened the show.

Though Stipe struggled to keep up with the lyrics, leaving out choice phrases and taking pauses in deep breaths, the melodic choruses and harmonizing ending by Stipe, Pete Buck, and Mike Mills redeemed the rendering.

After a short "encorrial" break that gave Stipe the opportunity to shed his shirt for optimum comfort, the band returned to play "Pop Song '89" to the scene of "Government" and "Weather" being flashed alternately on the screen behind them.

*Pageant* was revisited once again with "Fall on Me." Following, after another short intermission,

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Wait For the Videotape.
-  **In the Ground**  
Not Worth Your Time or Money.

# Monty Python heads for Norway in Erik the Viking

by Joe Cambron  
Diversions Editor

*Erik the Viking* documents its namesake's quest to find the "horn resounding". This comedy (?) is the result of a collaborative effort between several *Monty Python* alumni, some of which actually appear in the film.

Like the British show *Monty Python* which was criticized for poor taste by those who did not become the soldiers of the comedy troupe, the taste of the group's new film is still questionable—but sadly so is its comedy. The question is "where is it?"

Though some scenes of the film are eminently watchable, others are simply pointless and insane. One of the film's better scenes is the film's first one. Erik, a viking engaged in wanton pillaging of a village, appears in a young lady's hut, only to be unable to rape her as the viking code insists. Hurting her seems beyond his grasp as he fumbles with his coverings. Yes, a viking with a conscious is born. When his viking friends hear her fawning a lame scream that Erik means to impress his friends, they enter the room and demand their turn at the girl.

The girl frustrated with Erik's impotence submits to the men, but unable to see someone he realizes he cares for hurt: Erik kills the other viking. In his anger, however, he also inadvertently kills the girl, eliciting the following response: "It's the thought that counts."

The death of the feisty young lady haunts him henceforth, and she becomes the only woman he may ever care for, despite her death.

Seeking solace for his deed, Erik visits the town soothsayer who lives high above all in a cave. She tells him of an age of fighting in a world devoid of the sun, apparently the present age. In order to escape this time, a horn must be blown three times in order to awaken the gods.

Somehow, Erik convinces his often brawling viking villagers to journey to an almost certain death. They board their Norse ship, and after one of the film's other few funny scenes, the vikings are on their way.

Their journey takes them through an obstacle course of bad special effects reminiscent of *Clash of the Titans*. Along the way subtle sym-

see ERIK, page 8

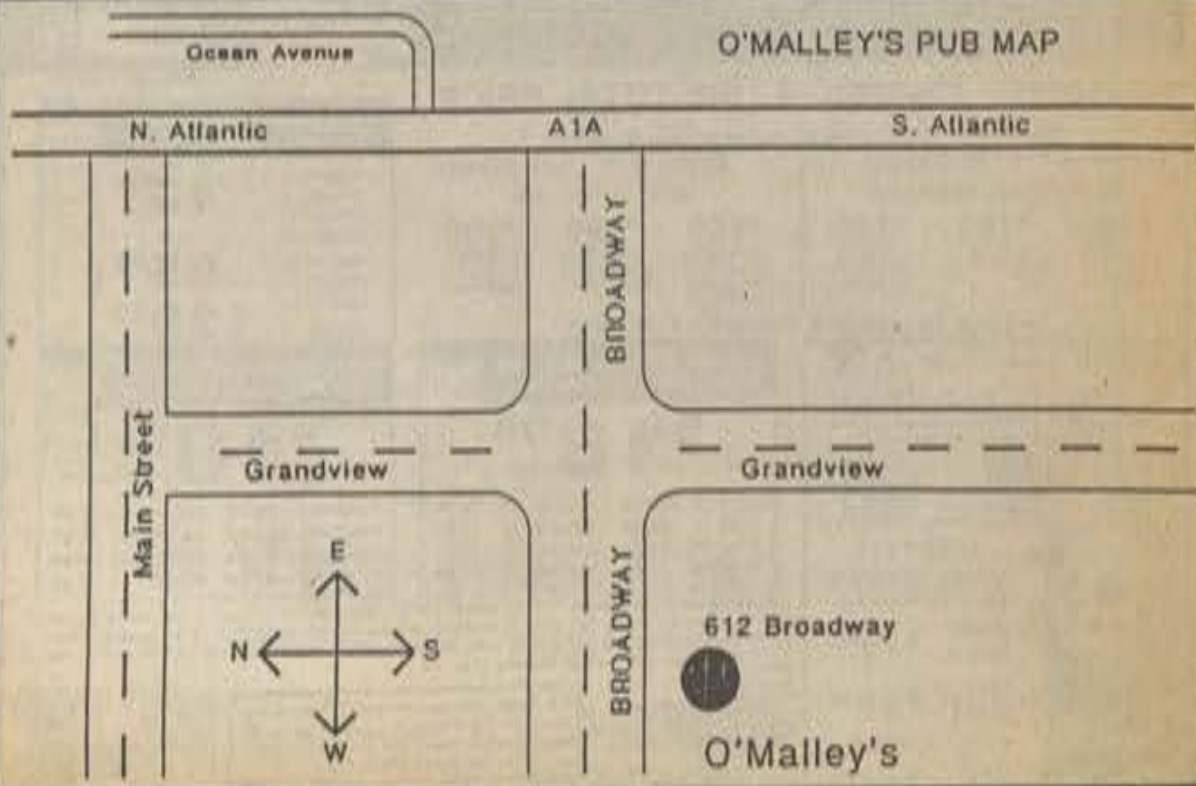
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# The Rolling Stones celebrate twenty-six years of rock and roll

by Joe Cambron  
Diversions Editor

Owing to the year's incredibly successful Steel Wheels Tour, and the almost outright fanaticism offered to the Rolling Stones by the band's million of fans, it seems appropriate to reflect upon the band's twenty-six year marathon of trend setting rock and roll.

The Rolling Stones officially became a band on April 28, 1963; for it was on that date that Andrew Oldham and Eric Easton saw the Stones and signed to become their managers. Less than one month after gaining management, the band was in a studio recording their first songs, "Come On" and "I Wanna Be Loved."

By June 7, the band had appeared on television in England, and the Stones had begun a long and fruitful career. November of 1963 marked the release of the Stones first single, "I Wanna Be Your Man"/"Stoned." Two months later, the band was headlining a tour. At the same time, their first album was released, containing "Not Fade Away," "Little By Little," "It's All Over Now," and "Good Times, Bad Times." By July 8, 1964, "It's All Over Now" had hit the number one spot on the charts.

Three days after a riotous show in France on October 20, the band flew to America for its first twelve American dates and an appearance on the Ed Sullivan Show.

In January 1965 the band's second album, *The Rolling Stones No. 2*, was released as a tour of Australia with Roy Orbison commenced. Riots and thunderous crowds followed the band through Australia and back to Europe where a Norwegian date turned into a confrontation between police and fans.

In August of 1965, the band re-signed with Decca Records and released "Satisfaction." September marked the band's third LP release, *Out of our Heads*.

Almost a year later, the Rolling Stones offered the *Aftermath* LP, featuring songs like "Paint It Black." A fifth American tour was also completed that year.

By November of 1966 the group was preparing for *Big Hits* to hit the stores, and in January of the following year *Between the Buttons* was released. The parade of albums was greeted by the band with several more tours, and its first performance behind the "iron curtain."

In December of 1968 *Beggars Banquet* was announced to the public at a real "beggars banquet" that soon degenerated into a custard pie throwing contest. Brian Jones, then growing ill, left the band in June 8, 1969, only to die less than one month later.

1969 was not only an important year for mankind, it was an important year for the Stones. As the first man walked on the moon, Mick Jagger began an acting career and the band had filmed "Rock n' Roll Circus." Among the guests on this new television special were John and Yoko Lennon. The death of Brian Jones weighed heavily on the band, however, and a benefit for his memory was held by the band on July 5. Mick Taylor was given the task of replacing him.

Even with the wealth of projects undertaken by the band, the group still managed to finish *Through the Past Darkly* which hit record stores in September.

January 1970, The Stones were wrapping up their sixth American tour with the release of *Let It Bleed*. During 1971 the band split from its management and its record company, to form Rolling Stones Records. In April not just one, but two albums were released. Both *Sticky Fingers* on Rolling Stones Records and *Stone* on Decca Records began their respective climbs up the album charts.

Mick Jagger (now 29 years old) married Bianca Peres Morena on May 12, 1971 and five months later a daughter, Jade Jagger, was born. Decca released *Gimme Shelter* as Rolling Stones Records finished production on a compilation of Moroccan folk music recorded by the late Brian Jones. *Exile on Main Street* followed in 1972.

July 26, 1973 marked Mick's thirtieth birthday and only a month later a tour began to promote *Goat's Head Soup*.

1974 finds Bill Wyman recording a solo album, two books about the band being quickly bound, and a new American film entitled "Ladies and Gentlemen, the Rolling Stones" filling theaters. *It's Only Rock n' Roll* also hits stores.

With 1975 came the departure of Mick Taylor and the arrival of Ron Wood, late in the year Decca having settled their dispute with the band-released *Rolling Gold* amid rumors that the band would never again tour America. A year later the band toured America to promote *Black and Blue* as similar rumors again circled around them.

1977 brought legal problems for Keith Richards and a scandal for the Prime Minister of Canada. Meanwhile, the album *Love You Live* hit stores. First, Keith Richards "busted" in March for suspicion of cocaine possession while in Canada for a tour. Later on the same tour, Canada's first lady was seen returning the band's hotel rooms after witnessing the group's performance at a small Canadian club. Soon, New York scandal sheets reported the first lady's interest in Stone Ron Wood as she followed the band to New York on "official business."

The next year brought even more controversy as an

early cover for *Some Girls* picturing Lucille Ball, Raquel Welch, and Liz Taylor was met with a lawsuit from each of those pictured. Jesse Jackson also began a war of wills with the Stones as a result of a lyric in the album's title track. Mick responds to all of them by saying, "If they can't take a joke \$\$\$@ 'em." Under band protest, Atlantic Records (the band's new label) changes the cover, but the lyrics are left untouched.

Later in the year, Bill Wyman is injured when he falls off a stage in St. Paul, Minnesota and Keith Richards receives a probationary sentence for his earlier Canadian indiscretions. The Stones also perform an extended set on Saturday Night Live.

During the next couple of years, Keith Richards formed the New Barbarians which seemed to cause more desire for Mick than Keith. Fans at a Milwaukee date destroyed the stadium after a rumored appearance by Jagger fell through. In 1980 Ron Wood and Jo Howard were arrested for cocaine possession and held for five days before it was revealed that the charges were falsified. Later in the year, *Emotional Rescue* is released amongst rumors that the band was near breaking up. Though the rumors of the Stones split proved false, another split-Mick from his wife Bianca-became reality.

In 1981 *Sucking in the Seventies*, a compilation, was released. The suggestive title was enough, however, to force Sears to not carry the LP. *The Tattoo You* album was not quite so unlucky, though, it was released in August.

The following year brings the release of *Sill Life*; and in 1983, a student teacher holds children hostage until a local radio station plays "Angie". The album *Undercover* hit stores in November.

1985 marked Mick Jagger's solo album-*She's the Boss*. Jerry Hall, the model/girlfriend of Jagger, brings Mick his first son, James. On March 24 of the next year *Dirty Work* was released, this time on Columbia Records.

see STONES, page 8

**From Rolling Stones to Steel Wheels, the band whose name symbolizes rock and roll is back with a vengeance. Tour dates in Florida include Miami-Nov. 15 and 16, Tampa-Nov. 18, and Jacksonville-Nov. 25.**

1	2	3	4	5	6	7	8	9	10	11	
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49	50	51		52		53		54	55	56	
57			58			59		60			
61			62			63					

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**ACROSS**

- 1 Immovable
- 4 Fear
- 9 Chinese pagoda
- 12 Guido's high note
- 13 Kind of foot race
- 14 Soccer
- 15 Hot, violent wind
- 17 Summary
- 19 Armadillo
- 21 Roman gods
- 22 Quarrel
- 25 Electrified particle
- 27 Indicate
- 31 Make into leather
- 32 Brings into peril
- 34 Forward
- 35 Mournful
- 36 Female ruff

**DOWN**

- 1 Foollike part
- 2 Former boxer
- 3 Scottish cap
- 4 Lot fall
- 5 Rest
- 6 Spanish article
- 7 Swiss river
- 8 Changed color of
- 9 Type of cross
- 10 Goal
- 11 Fruit drink
- 16 Grain
- 18 Scotch ruler
- 20 Land measure
- 22 Hat
- 23 Jury list
- 24 Article
- 26 Garden flower
- 28 Faeroe Islands whirlwind
- 29 Delineate
- 30 Ancient chariot
- 32 Dine
- 33 Born
- 35 Takes one's part
- 39 Symbol for nickel
- 40 Snare

see SOLUTION, page 8

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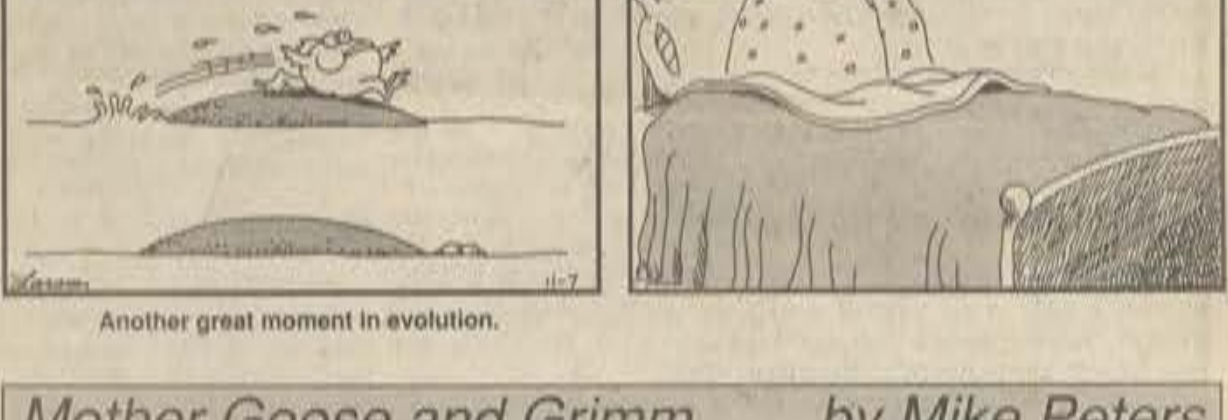
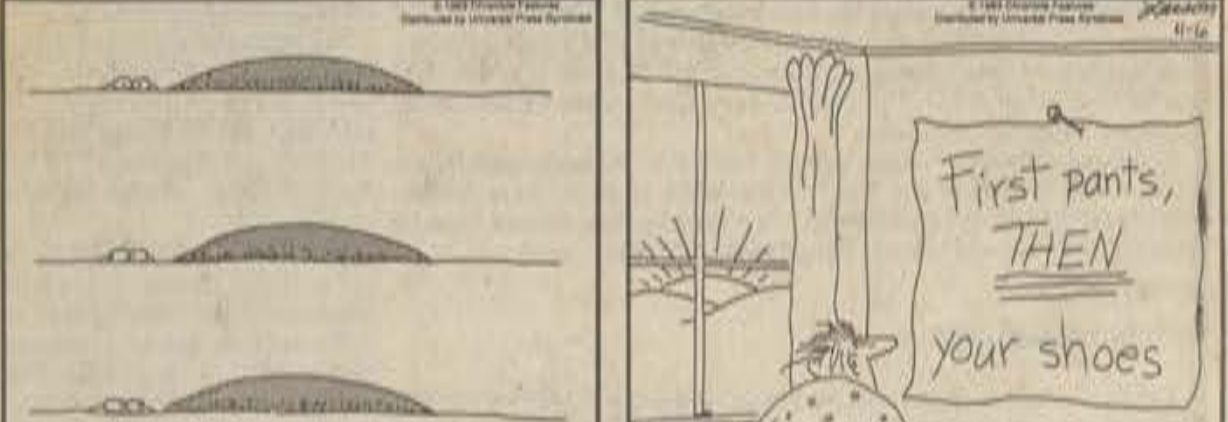
Calvin and Hobbes by Bill Waterson



Mister Boffo by Joe Martin



Far Side by Gary Larson



Mother Goose and Grimm by Mike Peters



Notices

Mathematics and physical science seminar series

Nov 16 Dr. Zoubir Benzaid *Perturbed Adiabatic Oscillator*  
 Nov 30 Dr. Robert Fleck *Native American Astronomy*

All seminars are held at 1:30 p.m. in Room W-306. Students are welcome. Refreshments served.

Entertainment announcements

November 16 Dead Poet's Society  
 30 Field of Dreams  
 December 7 Turner and Hoosh

December graduation

This is a reminder to all of those December graduates who have not yet turned in their cap and gown measurement cards. Get them in the Dean of Students Office as soon as possible. Furthermore, any students who are members of honorary societies should also contact the Dean of Students Office in order to guarantee proper listing in the Commencement Program. We want to see that all graduates that are eligible can participate and be properly recognized in the December Graduation Ceremonies. Should you have any questions, please call ext. 6326.

Naval commander speaks

On Friday, November 10, 1989 Commander David Brewer, U.S. Navy Special Assistant to Chief of Naval Operations, will give a speech entitled "Good Habits + Goals = Success." The speech will be given between 13:30 and 14:30 in Room A-111. The Naval Aviation Club and the Brothers of the Wind will co-sponsor the event. Commander Brewer is a graduate of Jones H.S. (Orlando) and Prairie View A&M University and was commissioned in 1970. As a Surface Warfare Officer, he has commanded a tank landing ship. He will soon be returning to the sea and to the command of another ship.

Safety presentations

The Department of Safety will be sponsoring a series of safety programs. The programs will be presented by a national safety awareness organization called Citizens Against Crime. Topics covered will include Personal Safety, Child Safety and Fire Safety. The Safety Presentation schedule is:

Personal Safety	November 16	1:30 to 2:30 pm	A-109
Child Safety	December 7	1:30 to 2:30 pm	A-109

Embry-Riddle to host NASA exhibit

Embry-Riddle Aeronautical University will be sponsoring a large traveling exhibit of the National Aeronautics and Space Administration (NASA), Tuesday through Thursday, November 7 - 9. The exhibit will coincide with Embry-Riddle's Homecoming Week. The NASA exhibit (known as the NASA Aerovyan) is a large, walk-through trailer with exhibits focusing on current research in aviation safety, energy efficiency, environmental capacity and improvements in airport passenger comfort and convenience. Dale C. Christensen of the NASA Langley Visitor Center in Hampton,

Virginia, a retired U.S. Air Force pilot with over 4,400 hours of flying time, will be on hand to answer questions from 9 am to 4 pm. The Aerovyan is open to the public free of charge. For more information contact the Public Relations Office at 239-6175. Embry-Riddle Aeronautical University is a private, independent institution with an enrollment of about 13,000 full-time and part-time students in Daytona, Beach, Florida; Prescott, Arizona; and at 100 College of Continuing Education locations throughout the world.

Spring degree completion

Applications are being accepted for those expecting April '90 degree completion. Come to the Registration and Records Office and fill out an application to receive a "Preliminary Evaluation." We will try to have one sent to you before Advanced Registration for Spring '90 later this semester.

Colloquiums

Dr. Upindranath Singh of the department of mathematics and physical sciences will speak on normal mode decomposition of the order parameter fluctuations at the isotropic-blue phase transitions in cholesteric esters. The validity of the present version of the Landau theory and the use of the harmonic approximation were tested by studying pre-transitional effects in cholesteric liquid crystals that form blue phases. The order parameter chosen is the anisotropic part of the dielectric tensor. The event is scheduled for November 9, 1989.

Dr. Jose Rodriguez of the department of aerospace engineering will speak on expert systems for the symbolic integration of ordinary differential equations using Lie groups.

We present an algorithm for the solution of first order ordinary differential equations using the method of continuous transformation (Lie) groups. The talk is divided into three parts. First, an introduction to the method of Lie groups for the solution of differential equations. Second, an introduction to symbolic manipulation with examples from MACSYMA, REDUCE and MAPLE. Finally, the combination of both techniques to generate the expert system.

The event is scheduled for November 16, 1989. Dr. Zoubir Benzaid of the department of mathematics will speak on the constrained controllability of perturbed stable linear systems.

We study the constrained controllability of a uniformly controllable linear system  $X'(t) = A(t)X(t) + B(t)u(t)$ . We subsequently perturb the system and obtain various sufficient conditions for constrained controllability. These conditions will naturally depend on the stability class of the unperturbed system and also on the set of admissible controllers. The event is scheduled for November 30, 1989.

All colloquiums will be held at 3:30 pm at the Davidson Theater, A building #101. For further information on any of the colloquiums listed above, call Wanda at ext. 6709 or Dr. Siva at ext. 6454.

Homecoming

HOME COMING, HOME COMING, HOME COMING! It's this weekend! As you may know, Entertainment (a division of SGA) is sponsoring a FREE outdoor concert--REO Speedwagon and Tangier. Everyone's help is needed. If you don't have a clue as to what you're doing the day of the show, please do not miss the meeting Thursday at 7:00 pm in the Conference Room. As for AA (Attitude Adjustment), we'll probably skip the acapella snuff. The Halloween Dance was great and a big thanks to all of you who helped out. Let's not lose momentum after Homecoming. There's still more AA. Remember "It's an attitude thing."

FAA tests scheduled

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

	Maximum Number of Questions/Times Allowed	Place
1. (PA) Private Pilot-Airplane	50/6 hrs.	
2. (CA) Commercial Pilot-Airplane	100/5 hrs.	
3. (FIA) Flight Instructor-Airplane	100/6 hrs.	
4. (FOI) Fundamentals of Instructing	50/4 hrs.	
5. (BGI) Ground Instructor-Basic	100/6 hrs.	
6. (AGI) Ground Instructor-Advanced	100/6 hrs.	
7. (ATP 121) Airline Transport Pilot-Airplane	100/6 hrs.	
8. (AD) Aircraft Dispatcher	100/6 hrs.	
9. (ATA 135) Airline Transport Pilot-Airplane	100/6 hrs.	
10. (IRA) Instrument Rating-Airplane	60/6 hrs.	
11. (FI) Flight Instructor-Instrument-Airplane	50/6 hrs.	
12. (IGI) Ground Instructor-Instrument	50/6 hrs.	
13. (FEB) Flight Engineer-Basic	50/6 hrs.	
14. (FEJ) Flight Engineer-Turbojet-727	50/6 hrs.	

Date	Time	Place
November 10	Friday, 0900	A-107
November 18	Saturday, 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 a 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.

Research paper competition

Under a Graduate Research Award Program sponsored by the Federal Aviation Administration and administered by the Transportation Research Board (a unit of the National Research Council), awards of \$3000 for developing a research paper on Public Sector Aviation Issues will be made to up to five graduate students to be selected by a Transportation Research Board Panel. This is the fourth year of a program that is motivated by the continuing need to attract gifted students to policy and management positions in the public sectors of aviation. Its focus is on the technical and management innovations that will help the public sector provide quality civil aviation services and facilities into the next century. Completed applications must be received by November 13, 1989. For more information and assistance, please contact Dr. George Chang or Mrs. Karen Faris in the School of Graduate Studies and Research. (ext. 6715)




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<p><b>THUR</b></p> <p>11-7 \$1.50 Daiquiris</p> <p>7-12 \$1.00 Imports Whirlwinds</p>	<p><b>HAPPY HOUR</b> 5-7 MON.-FRI.</p>	<p><b>FRI</b></p> <p>11-7 \$1.50 Goombay Smashes Today's Paycheck Stub = 1 Free Drink</p>

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