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Embry-Riddle Aeronautical University

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SPACE TECHNOLOGY

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Atlantis set to launch next Tuesday evening

by Greg Rozendes
Space Technology Writer

On the night of Wednesday, Oct. 23, the space shuttle *Atlantis* was rolled out to the launch pad for its upcoming November mission.

The 10 day flight will be launched on November 19 and will carry a defense department surveillance satellite into orbit. The shuttle will take the satellite to about 224 miles above the earth's surface.

The six man crew arrived at the Kennedy Space Center yesterday for a dry run of procedures. The crew consists of Air Force Col. Frederick Gregory, Mission Commander; Air Force Lt. Col. Terrence "Tom" Henricks, Pilot; Dr. Story Musgrave, Navy Lt. Cdr. Mario Runco Jr., Army Lt. Col. James Voss and Chief Warrant Officer Thomas Hennen.

Gregory is making his third journey into space and Musgrave will be making his fourth. The other astronauts will be journeying into space for the first time.

The launch date and time will be November 19 at 6:51 p.m. with a three hour launch window.

The satellite was designed to warn of nuclear detonations and missile launches. It will be launched six hours after liftoff.

Astronauts will devote the rest of the 10-day mission to military observations, radiation monitoring and medical experiments. The crew will use special optics and communication equipment to evaluate the effectiveness of observing seaports, airports and other U.S. military installations from space.

The mission is scheduled to end on November 29 with a landing at Kennedy Space Center's Shuttle Landing Facility. The last shuttle mission in September was also scheduled to land at the facility, but bad weather forced a landing at Edwards AFB in California.

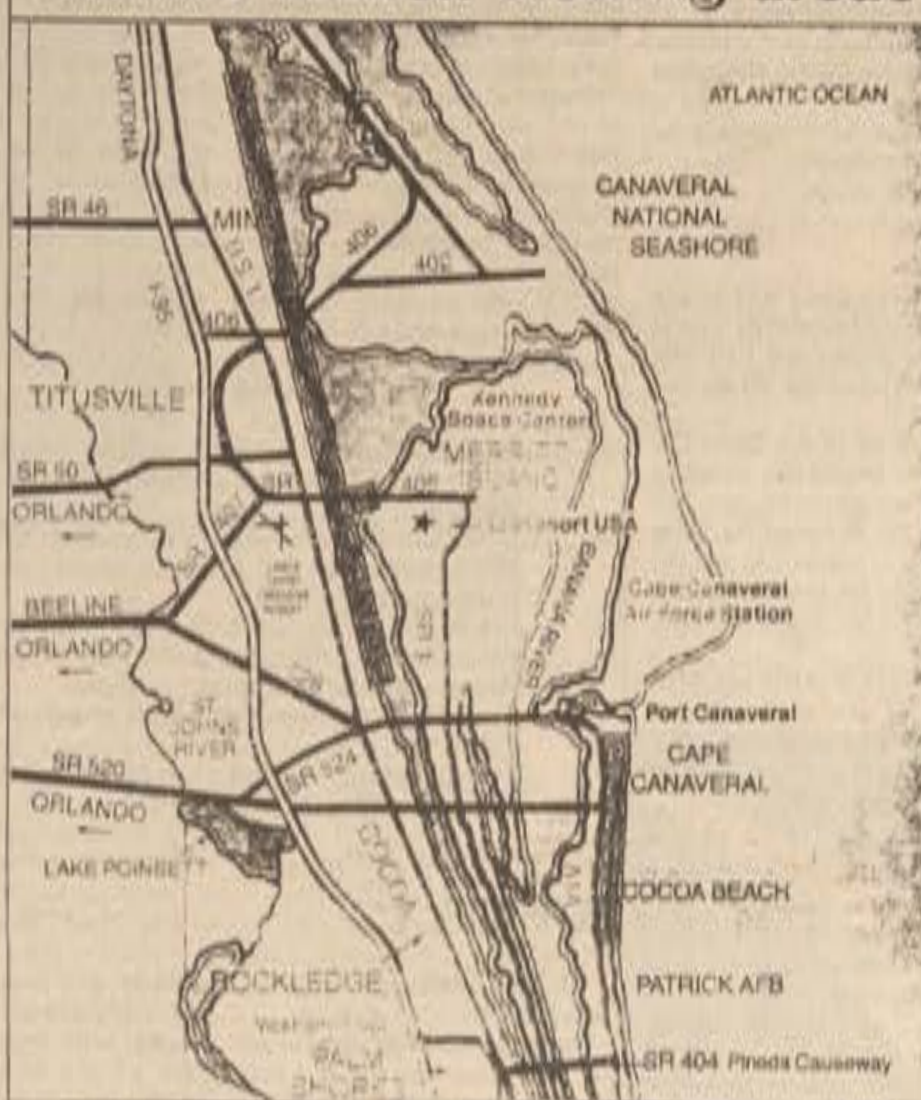
Everything about this flight except for some military observation targets, will be unclassified.

This will be the ninth shuttle mission dedicated to Pentagon work, and only the second that is not hidden in secrecy. The military conducted its first unclassified shuttle mission last spring.

The Pentagon dropped total classification of shuttle flights to save money. Military officers put the savings at \$80 million a year.

Since it is a night launch, interested people can watch the launch from this area or in Titusville. Suggested viewing areas for the launch are Ponce Inlet or the areas shown in the diagram to the right.

Shuttle launch viewing areas



Galileo closing in on asteroid

PALO ALTO, Calif. (AP) - NASA officials have found a way to work around a technical glitch on the *Galileo* spacecraft and hope to obtain photographs it took of an asteroid by next week instead of next year, it was reported Friday.

Galileo last month zoomed within 1,000 miles of the potato-shaped asteroid Gaspra, floating between Mars and Jupiter, 255 million miles from Earth. The spacecraft took pictures of the chunk of rock and iron, but a jammed antenna prevented the spacecraft from sending much data ground stations.

Several scientists told the *Peninsula Times-Tribune* of Palo Alto that they said they now are using a different, smaller antenna on the spacecraft to send computerized picture data back to Earth at a very slow rate.

Computers at the Jet Propulsion Laboratory in Pasadena, contracted by the National Aeronautics and Space Administration to manage the *Galileo* project, began receiving radio signals of a single snapshot Thursday.

The image, the center frame of a collage of nine photos taken as the spacecraft approached the asteroid, will take 80 hours to materialize, *Galileo* project manager William O'Neil told the newspaper.

The \$1.4 billion spacecraft was launched in 1989.

Prosecutor in Rockwell trial says witnesses could be pressured

CEDAR RAPIDS, Iowa (AP) - The prosecutor in the "soak the shuttle" case told a federal magistrate he plans to delay release of information against Rockwell International and two supervisors because he fears witness intimidation.

A lawyer for Rockwell said he would fight the move, denied any plans to pressure witnesses and called the suggestion "unkind."

The comments came Friday before Chief Magistrate John A. Jarvey at the arraignment of Rockwell; Sandra Simoens, an executive for one of its Cedar Rapids subsidiaries; and Richard Priddy, a former manager. Innocent pleas were entered by all of the defendants.

Mrs. Simoens and Priddy were released without bond after U.S. marshals took their pictures and fingerprints.

A 15-count indictment returned Oct. 31 by a federal grand jury in Cedar Rapids accuses the company and the supervisors of defrauding the National Aeronautics and Space Administration through a conspiracy to pad bills for work done on the space shuttle.

The indictment includes charges of conspiracy, mail fraud, wire fraud and false claims and results from an investigation from 1979 to August 1987.

Assistant U.S. attorney Robert Teig said it would be

premature to disclose to defendants all of the material from investigation reports. But he said a room was filled with "thousands and thousands of documents" that would be available for scrutiny by the defense.

When Jarvey asked why not all of the material would be available, Teig said, "We're concerned about witness information being made available in terms of pressure being exerted against them. There is a potential. We are concerned."

He said before a witness is called to testify in a criminal trial, the prosecution must turn over to the defense prior statements made by the witness. Teig added, "not at this early date."

Stanley S. Arkin, a New York lawyer representing Rockwell, told Jarvey he would file motions later to fight any attempt to withhold some of the information from the defense.

"The suggestion that any possible pressure on witnesses, intimidation of witnesses, is far from the mark, uncalled for ... and unkind," he told Jarvey. "Nothing approaching or sounding like intimidation has come from Rockwell. If there's anything like that it did not come from our side."

Arkin also said defense lawyers may ask that the prosecution be barred from using as evidence any voluntary statements Priddy and Mrs. Simoens made

during the investigation. No date was set for a trial, which lawyers estimated could take from six weeks to three months.

Scott Lassar of Chicago, who represents Mrs. Simoens, said defense lawyers will need longer than usual to prepare for trial because of the complexity of the case. He referred to the large number of documents and hundreds of people interviewed by prosecutors in at least 1 1/2 years of investigations. Lassar said he did not expect to be ready to go to trial until March or April.

J. Frank Kimbrough of Fort Wayne, Ind., representing Priddy, said that with the government still vague as to when alleged offenses occurred, he said great attention will have to be paid to details in the records of the investigation. Among other things, he said he might have to check on the whereabouts of his client on each of the dates involved to see if there is an alibi.

The first procedural motions, including those on disclosure of evidence to the prosecution, are due by Dec. 6.

If convicted on all counts, Rockwell could be fined up to \$7.5 million, Priddy and Mrs. Simoens each could be sentenced up to 30 years and fined up to \$1.5 million.

The indictment accuses Rockwell, Priddy and Mrs.

Simoens of defrauding NASA by inflating time cards and submitting false claims for work on the space shuttle. The government has not disclosed how much money was involved.

At the time covered by the investigation, Priddy was manager of material and Cedar Rapids Manufacturing Operations for Rockwell and Mrs. Simoens was a quality operations manager at Rockwell's Collins Government Agency Division at Cedar Rapids. Each are indicted on six of the 15 counts.

Mrs. Simoens, of Robins, remains a Collins manager. Priddy no longer works for the company and now lives in Baltimore.

The indictment alleged that from 1979 through 1985, Priddy told employees to "soak the shuttle." It alleges Mrs. Simoens provided supervisors with job charges and hours to inflate the bills for time spent by employees in her section working on the shuttle.

Collins produced and repaired flight instrumentation for the shuttle. The company is expected to bid on new aviation contracts for the government.

"Rockwell is one of our country's finest companies. It has dedicated many of its resources to being law-abiding," Arkin said after the hearing. "It will be found innocent of the charges."

"Nothing approaching or sounding like intimidation has come from Rockwell. If there's anything like that it did not come from our side."

Jarvey

Titan rocket carries military spy satellite into polar orbit

VANDENBERG AIR FORCE BASE, Calif. (AP) - A Titan 4 rocket carrying a classified military payload was launched successfully, officials said Friday.

The launch late Thursday was the fifth of a Titan 4, the nation's largest rocket.

"The Titan 4 is a highly reliable launch system. Five successful launches out of five attempts proves it," said Col. Charles F. Stirling, director of the Titan 4 program.

Air Force officials wouldn't discuss the rocket's payload. Jeff Richelson, a space expert affiliated with the independent National Security Archives, said it likely was a Lacrosse satellite which produces radar images of the Earth that resemble photographs.

The Lacrosse was used during the Gulf

War and is able to penetrate clouds that block other satellite images.

The Titan rocket, moving at up to 17,000 mph, created a roar heard by San Diego residents as it sped south over the Pacific toward polar orbit, said police Sgt. Tom Clements. He said about a dozen people called police.

"Some people who heard the noise were confused and thought it might have been an earthquake," Clements said.

The first three Titans were launched from Cape Canaveral, Fla. The fourth Titan launch took place last March at Vandenberg.

The Titan 4, built by Martin Marietta Astronautics Group in Denver, was developed after the 1986 *Challenger* accident ended plans to launch space shuttles from Vandenberg.



Great Titan...
Martin Marietta's Titan 4 rocket lifts off its pad in California on its secret military mission.

Magellan discovers longest channel in solar system

by Roland Houle
Space Technology Editor

The Magellan spacecraft, mapping the surface of Venus with imaging radar, has discovered the longest channel known in the solar system, a project spokesman said at NASA's Jet Propulsion Laboratory, Pasadena, Calif.

The channel crosses the plains of Venus for 4,200 miles, longer than the Nile River, the longest river on Earth, said Project Scientist Dr. Steve Saunders. "The very existence of such a long channel is a great puzzle," Saunders said. "If the long channel were carved by something flowing on the surface, the liquid must have had unusual properties," he added.

Saunders said it may have been some materials that was near its freezing or melting point at the average surface conditions of Venus - surface pressure 90 times that of Earth and a temperature of 864 degrees Fahrenheit.

"There are no very likely candidates for a liquid," Saunders said. "Lava, even very high temperature type, would need to have a very high extrusion rate to flow so far. This is not consistent with the uniform narrow channel morphology."

He said the channel is very uniform in width, averaging little more than one mile across. "It follows a sinuous, smoothly-curving course that can be traced continuously on the surface just west of Atla Regio northward nearly to the large basin called Atalanta Planitia."

A few segments of the channel were mapped in 1984 by the Soviet Venera 15 and 16 orbiters which carried radar capable of resolving features down to 0.6 to 1.2 miles. With the higher resolution Magellan, about 400 feet, the channel can be traced unbroken along its course, Saunders said.

Similar channels have been seen on the surfaces of many of the planets in other parts of Venus, he said. In some cases the channels terminate in lava flows, indicating that they probably were carved out by molten lava from a volcanic eruption. No similar features are known on Earth, although lava channels are known to have formed on Earth billions of years ago.

"The challenge of understanding the origin of this channel will lead to better understanding of planetary geological processes and many related fields such as materials properties and fluid mechanics," Saunders said.

Magellan is currently mapping the south pole of Venus. In the first 243-day mapping cycle which ended May 15, the spacecraft mapped 84 percent of the planet.

In its second cycle, it has mapped for the second time a 600-mile wide strip and that section of Venus is being examined to see if any changes occurred from one cycle to the other.

Preliminary analysis of that data has so far revealed no changes occurring on the surface of Venus between mapping cycles.

Scientists say new radar photos show Mercury has ice cap

PALO ALTO, Calif. (AP) - Welcome to Mercury's north pole, where the neighboring sun never shines and an ice cap has formed on the scorching planet.

Scientists surprised by their own discovery on Wednesday presented radar photographs and a computer model to back their theory of a polar ice cap on the planet closest to the sun.

"It took us a long time to believe it," said researcher Martin Slade of the California Institute of Technology's Jet Propulsion Laboratory.

"The general reaction ... was 'Oh, my God, that can't be ice, can it?'" said Duane Muhleman, a Cal Tech planetary science professor and project leader. "But once you think about it and do the analysis it makes

perfect sense."

According to Cal Tech's evidence from August experiments, the first-ever radar photographs of an entire hemisphere of Mercury show the brightest reflection on the planet's north pole. That indicates a highly reflective substance such as ice present over an area of an estimated 150 square miles.

Computer modeling by University of California, Los Angeles professor David Paige and graduate student Stephen Wood found that Mercury's polar regions may be as cold as 235 degrees below zero Fahrenheit, compared with temperatures up to 800 degrees at the planet's equator.

Because Mercury's equator always faces the sun during orbit, the cratered north pole is protected

from solar heat that could melt hidden ice formations.

The ice cap was likely formed when gaseous material and moisture which would vaporize on most of the planet - is drawn to "cold regions at the poles, where it precipitates as 'snow,'" the scientists concluded.

The preliminary findings were presented at the American Astronomical Society's Division of Planetary Sciences conference. Other scientists attending the conference were skeptical about ice forming on the hottest planet.

"I think a lot more thought is necessary before one could be sure this is ice," said Clark Chapman of the Planetary Science Institute in Tucson, Ariz. "They have a strong argument, but a hot planet like

Mercury seems like a strange place for water ice to form."

Gordon Pettengill of the Massachusetts Institute of Technology was among the believers. He said his Cal Tech colleagues presented strong evidence.

"I must admit it's a little bit unexpected, but it's not out of line," Pettengill said. "The sun beats down mercilessly on most of the planet, but there's definitely a cold trap at the poles."

Cal Tech obtained the radar pictures on Aug. 8 and Aug. 23, using ground-based equipment. In 1974, the other half of Mercury was photographed by the Mariner 10 spacecraft, but didn't show any ice caps.

Alpha Eta Rho

by Matt Hopkins
AHP Historian
Hey, what's up everybody? Nothing too exciting going on these days. I hope everyone had a great time during Homecoming. I'd also like to say hello to all the alumni that returned for the weekend. The bad was great and so were all the good times.

Pledges are doing alright at this point. Remember, third interviews are coming up. We also have to start gearing up for ritual. I hope every-

thing turns out right. It has been going well so far, so I think we're going to be having a ball.

Let it be known to all that may read that Tom is a total stud! He is what I strive to be. It must be Scott's manliness rubbing off on him since they've been living together. Just playing, guys.

Congratulations to Joe for becoming a commercial pilot. Also good luck to Slayer.

Go fly those KC-10's, you lucky stiff. Later everybody.

Delta Chi

by Gern Blanton
Club Writer
Well, our semi-kind-of-annual-canoe-trip-from-hell got off with very few glitches. We won't mention the fact that we were two hours late, had no money for gas, and not enough people to get a discount. Anyway, as soon as Doyle figured out how to stay upright in his canoe, everyone was able to continue on with the beverage stop. Jungle Jesse killed a snake and assorted spiders, and then continued on in a search for one of every kind of animal he could find. The Manatee put up a real good fight. Honest!

Except for the lack of costumes,

our Halloween party was in top form. We would especially like to thank all the faculty and staff who attended our scholastic dinner last week -- not!

Thanks to all of our Delta Chi brothers who helped out, including John, Dan and what's-his-face. We would also like to extend our warm appreciation to Sigma Chi and the Jeep company for helping Brother Lewis remove his Tonka toy from the mud.

Greek Week t-shirts are \$10. Please pay as soon as you can and you will get your shirt. Don't pay and nobody will get their shirt on time! Have a nice week...

Riddle Riders

Riddle Riders held officer elections last meeting, the outcome being President Mike Lubanski, Vice President Jeff Hall, Secretary Aaron Yogi and Treasurer Doug Byers. This past Wednesday the club went to the Orlando Speed World drag strip. This gave us all a chance to run a quarter mile legally with electronic timing. We all got to run 3 or 4 times because there were a lot of cars running that night. Our best time was Doug Mayer on a ZX-6; he did 12.17 seconds, club president Michael Lubanski came in next with a time of 12.33 seconds on his V-65 Magna. The rest of our times are posted in our award winning display case. There were a lot of cool

street rods and stock cars running, some doing 9 second runs. We plan on going back soon.

Coming up is the Road Rally/Poker Run. This event will be open to all local motorcycle riders along with ERAU students and faculty.

Thanksgiving and the Florida Keys trip are coming up fast. Anyone planning on going be at the meeting this Thursday the 14 at 8 p.m. in room E-613. The clubs going will be holding a car wash this weekend at the Discount Auto Parts store on Beville Road. Remember a clean car is a happy car.

Brothers of the Wind

by Ron Grant
Club Writer
Brothers of the Wind had a slaming party at C.G. Haps last Friday night to celebrate Homecoming 1991. For those of you who missed it, you better keep your eyes open for the next one. Everyone who did come out to "shake your thang", thanks for making the party a success. Don't forget to see Tony Valasquez if you want to contribute to, or benefit from the Test & Book File that he has started. Anyone interested in the Black History Month Committee see one of the executive board members now! January is too late, we need to get off CP time anyway. We were pleased to have Mr. Ken Robinson

speak to us at our last meeting. Ken is a corporate pilot for Proctor and Gamble. He addressed the issue of not being enough minorities in aviation. He was gracious enough to give us his address, so if anyone wants to get in touch with Mr. Robinson, see one of the executive board members. The only way we are going to become more involved in aviation is by opening the door for brothers and sisters that are coming in behind us. Thanks to everyone who helped out with the Halloween fair and Homecoming events. Thought for the day: If you don't know a role model, take time out to become one. Together we aspire, together we achieve. PEACE!

Clubs Policy

- ➔ All articles must be type-written, double spaced or on disk format (unformatted in Microsoft Word).
- ➔ Deadline for submission of all club material is **Wednesday at 5 p.m., one week prior to publication.**
- ➔ Photos may be submitted with club articles.
- ➔ All submitted material becomes 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) 226-6079.

A.A.A.E.

by Michael Stelwag
Club Reporter
The American Association of Airport Executives has been very busy throughout the semester with numerous speaking engagements; a tour of United at Orlando, and an exciting trip on the Dixie Queen Riverboat Cruise. Our club is unique in that just about every meeting features a guest from the aviation community. Airports aren't the only thing we talk about though, so if you're interested drop us a note in the student activities center. AAAE has several very upscale events approaching yet this

semester, so if you aren't a member and would like to be a part of this, you had better hurry! On November 21st, we will be hosting Mr. Bill Robinson (Vice President of Corporate Affairs for the Lear Corporation). We are also planning a Christmas dinner for December 7th for a nominal fee to members. So, there is still time left if you would like to hear from our premiere speaker of the semester or if a festive dinner event at Pelican Bay sounds like fun. Stop by the Student Activities Office for more information. We hope to see you and all the members at our upcoming meeting.

Amateur Radio Club

Does the idea of being able to talk with people all over the world at the flip of a switch sound like fun? Do you like to use computer BBS? Would you like to be able to communicate via Amateur TV, morse code or via any one of several Amateur satellites in space? Or how about talking directly to the Space Shuttle (many astronauts are licensed hams)? Then we have a club for you! Amateur Radio is a world-wide hobby made up of people from all walks of life, including many famous people like King Hussein of Jordan and Senator Barry Goldwater. Hams aren't just people who talk to each other on the radio. There are always various types of contests going on, transmitter "fox" hunts, or you can experiment with things like bouncing radio signals off the Moon and back to another part of the Earth! You don't need to

have any real knowledge of electronics to become a licensed ham, and now there is even an entry-level license that doesn't require a morse code proficiency test. Here at Embury-Riddle we are in the process of forming a club and we need YOU!! You need not be licensed to take part, just have an interest in the hobby. Once the group is complete we will be having classes here on campus to help you pass the test and get your license. For those of you who are licensed already and would like to upgrade, the classes would be available for Novice, Technician, General, Advanced and Amateur Extra Class licenses. Perhaps with enough support we could set up a club station on campus for those without radio equipment to use. For more info on the group or on the hobby itself, contact Shawn at Box 2237 or at 239-0292.

Surfing Club

For those of you that missed it: no excuses. On October 31, 1991, one of the biggest swells to ever hit Central Florida arrived at dawn. The 20 or so Stormriders that were out in the water to greet it will never forget it. The morning surf was a solid 6 - 8 foot line-up with even bigger sets. By afternoon it had peaked to a solid 12 feet with sets of 15 feet and higher! Down south they reported 20 foot waves at Reef Road and 25 foot surf at Tree Palms, Puerto Rico. Surprisingly, there were no broken boards, only changed attitudes on the power and perfection of Florida surf. Look for the action in the upcoming magazines! The celebration BBQ afterwards turned out to be the perfect end to a perfect day of truly "classic surf." I guess those broken board sacrifices really do work!

On another Halloween note, those surfers that ventured out to the REEF on Thursday night, the Kennedy Clan would like to apologize for our behavior. Once we started mingling around with our boxer shorts and blazers on we just lost all control and regard for the

law. Luckily there were no incidents back at the compound if you know what I mean. This same "clan" also ventured West for the weekend to offend even more people in St. Pete. Waich "A Current Affair" for details.

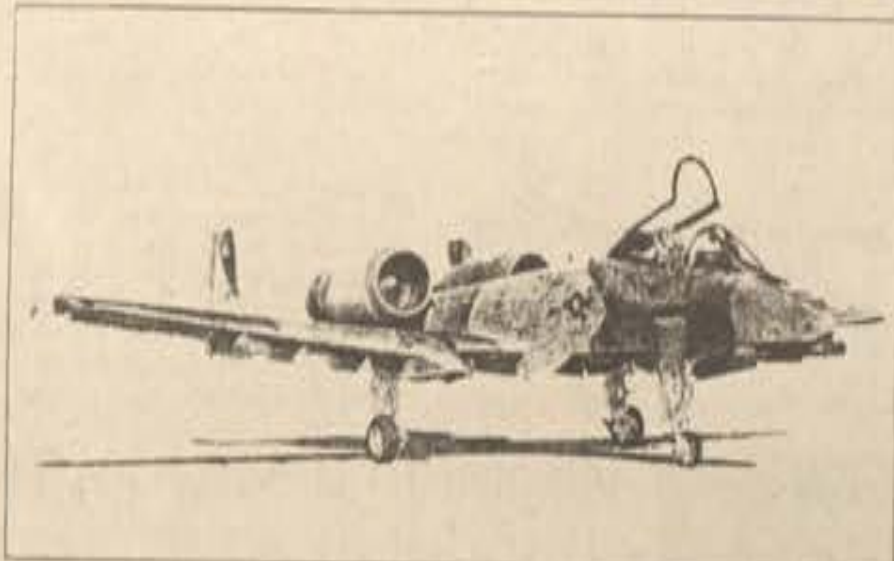
In Club News, our intra-club contest held last Sunday in the cold and less-than-stoking surf was weak. Without the ocean cooperating it's difficult to have a competitive event.

On the bright side though we learned that if the surf was good, like on "Insane Thursday," nobody would have stayed on the beach to judge the contest! And secondly, winter is coming fast so sift through the closet for that full-suit, it's getting cold out there.

On a final note, a "thanks" goes out to all that worked hard on making our Subway sub's Homecoming Fundraiser a success for the club. Also, a special "thanks" also goes out to the ERAU students and alumni who supported us and kept us in business at our booth.

Look out for Stormrider t-shirts to go on sale soon! See you in the water!

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Gulfstream continues to bring out the best in jets



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The Gulfstream IV takes to the sky as the most desirable jet. By 1994, it will be capable of further improvement in navigation and flight safety.

HOUSTON, TX - A decade-long, multi-million dollar program of Gulfstream product enhancements and improvements; the planned development of two new evolutionary Gulfstream business jets leading to the introduction and marketing of the company's supersonic business jet is "our agenda for the 90s and into the 21st century," says Gulfstream Aerospace's Chairman and CEO, Allen E. Paulson.

Addressing the aerospace media at the 44th annual National Business Aircraft Convention, Paulson estimated the company's investments in the line-development program during the 90s will be "in the hundreds of millions of dollars."

Paulson described the company's objective to be "to insure — and to increase the productivity of Gulfstream aircraft. Our objective applies to earlier models and to our present and future production of Gulfstream IVs. It applies to all aircraft we will add to the Gulfstream family during this decade."

"It will become very evident as our plans unfold, that the design philosophy that has guided Gulfstream development since the early 1960s will successfully permit ongoing growth."

The Gulfstream CEO introduced the company's new president and COO, William C. Lowe, who described the company's plans as "desirable, achievable, ambitious — and underway."

The Gulfstream Guarantee
"To address our objective," Lowe said, "we will insure that all earlier Gulfstreams of the Gulfstream family, the III, the IIB and II, are each capable of meeting the Stage 3 airport noise standards (at a reasonable price). This is a step we've already taken. From now on, any of the family of Gulfstreams purchased from us under our New Again program of warranties, carry a Stage 3, money-back guarantee," Lowe stated.

The Gulfstream IV Evolution

"The Gulfstream IV is and always has been the sales leader and performance leader in its category since the very day it was introduced. It is our plan to make this business aircraft even more productive, more functional and versatile. Today, the Gulfstream IV can carry a greater payload over a greater range than either of its competitors. By 1994, the differences in capability will be even more pronounced."

* Ramp weight will be increased from its present 73,600 pounds to 75,000 pounds; maximum zero fuel weight will go up to 49,000 pounds — an increase of 7.5 percent.
* Landing gross weight will be increased, by 13 percent, to 66,000 pounds.
* By increasing our ramp weight, zero fuel and landing gross weight, the Gulfstream IV's payload range envelope is expanded to produce a 53 percent advantage in productivity over its competition.
Lowe reported the Gulfstream IV's FAA landing distance will be reduced by more than 300 feet.

The Gulfstream V

Paulson projected the company's plans for two evolutionary new models which are currently under study for introduction in the middle of the decade.

The first aircraft under study for introduction targeted in the mid-1990s is the Gulfstream V.

"The Gulfstream V is expected to be an 80-90,000 pound, gross weight aircraft. We've targeted a landing weight of 66,000 pound and payload of approximately 7,000 pounds."

"The big news for the Gulfstream V may well be our planned range goal:

"At Mach .8, with 8 passengers on board, we expect the GV, IFR range to be 5,000 nautical miles — or better. We also expect it to have an excellent field performance, fuel efficiency and climb capability."

"Landing and takeoff distances will be shorter than our present Gulfstream IV."

Paulson said, "The Gulfstream V is in preliminary design now as we prepared our detailed market studies and as we conduct our engine analysis with Rolls-Royce."

"We plan to incorporate these enhancements into our 1993 production aircraft. And, via an optional service change, the Gulfstream IV fleet will be able to obtain these benefits as well," Lowe said.

Gulfstream's president told the editors to look for a variety of "system enhancements that are a direct result of the benefits we can offer our owners because of the GIV Glass Cockpit. Among them:

"By 1994, we intend to provide expanded capability for the Honeywell SPZ-8000 Flight Guidance and Control System," Lowe said.

"The upgrade system will permit integration of future electronic systems focused on improving flight safety and navigation."

"The Gulfstream IV of the mid-90s will contain global positioning systems, collision avoidance systems, take-off performance monitors and turbulence prediction systems."

Gulfstream XT

"Our next model projected for the Gulfstream family (currently the subject of a major market research program and engineering study) is expected to be ready for introduction to the market in the last half of the 1990s," the Gulfstream chairman announced.

The aircraft will be targeted to have a gross ramp weight of approximately 50,000 pounds and a payload approaching 2,000 pounds. The length, span and general shape of the Gulfstream XT is "classified" at this time.

A "continental-type" Gulfstream, the Gulfstream XT is planned to be a 3,000 nautical mile range aircraft with a normal cruise speed of Mach .85. "And, the XT will have a very high degree of fuel efficiency thanks to the engine technology of the mid-1990s."

"While the Gulfstream XT may be roughly similar in overall size to the Gulfstream II, the aircraft is expected to be lighter, faster and have a better takeoff performance. It will have a more comfortable cabin and cockpit. It will, of course, be a

Stage 3, Part 25 aircraft," Paulson concluded.

Lowe Discusses the Gulfstream family

"Our strategic agenda for the 1990s is designed to increase today's family of four Stage 3 aircraft," Lowe said. "Beginning with the Gulfstream II, IIB, III and IV models and expanding, in this decade, to six models including the projected Gulfstream V and XT."

"When our market and early engineering research work is completed, possibly in mid-1992, we will issue more detailed specifications for each of the models that make up our agenda."

"That's a tall order for Gulfstream for the 1990s — but it's not complete."

"When supersonic business travel is feasible, you can expect Gulfstream to be there first."

"As we've stated earlier, the responses we've received so far from the business community indicated that supersonic travel is important. Our agenda includes fulfilling this important need."



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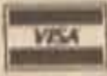
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Campus Ministry

What is it? Is it just another outdated, unscientific attempt to rope students into superstitious practices? Is it a scare the hell out of you propaganda mechanism? Is it a means of suppressing true freedom? Is it an attempt to control the weaker personalities? Is it the hope of parents that this will be the means of control over the conduct of their children? Is it the place for parents to dump all religious responsibilities for their children?

Without a doubt there are people who answer a strong "yes" to one or another of these questions. For the University Chaplains, squirming

because such questions are even asked in this day and age, the response to all question is a resounding "NO."

Here at Embry-Riddle, Campus Ministry is the focus of that essential, but too often incidental, element of holistic education, the spiritual. Recognizing the findings of modern psychology, sociology, philosophy and science, Campus Ministry endeavors to present an inner coherence to what is presented through the routine academics.

Campus Ministry recognizes the simple fact that in the course of their college years, students begin to recognize a real tension between the over simplified religion of their early training and the many questions, experiences and world views they encounter on campus. It also recognizes that students are faced with a consuming social life and the subtle influence of peers. And so Campus Ministry offers an influence that is stabilizing yet a true searching into the shaping power of religion through the sharing of life experience, knowledge and religious encounter in the wide variety of its programs.

Fr. Kenan Morris, O.F.M.
University Chaplain

Senior Class

All seniors are invited to a senior class barbecue to be held on November 16 from three till seven o'clock at the barbecue pit. Free food and entertainment will be provided. Senior class t-shirts and beverages will be sold to raise money for the senior class.

A reminder for all December graduates. The last meeting for graduating seniors will be held on November 25 at eight o'clock. Important information will be discussed, so please plan on attending.

Questions and comments can be directed to the senior class council at their weekly meetings, held every Tuesday at six o'clock in E609.

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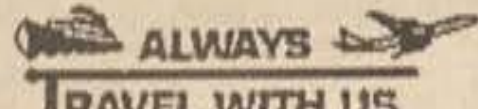
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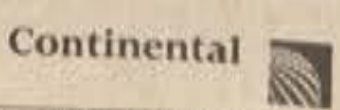
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The Trans Am shows if Pontiac 'has excitement'

by Jaylin Billig
Mechanical Technology Writer

Pontiac continues to build excitement with its new Trans Am model for 1992. The current model has been given a revised look and atti-

tude for the new year.

Most of the changes made to the new model have been internal, dealing with performance and handling. Externally, the new Trans Am is relatively the same as recent models.

Stepping into the car is awkward, but is understandable because of the Trans Am's exotic nature. The interior features a tilt steering wheel and power controls for door locks, mirrors, windows and trunk. Although the interior space is quite spartan, only suiting the purpose of the car. Overall the interior is comfortable and well laid out. All instruments are within easy reach. The only problem with the instruments is that one control stick is enlisted to do too much. This makes the use of its the controls difficult. A definite plus is the standard air conditioning and driver's side airbag. Other goodies available are an anti-theft system and T-top (both of which the test car was equipped with).

The dash layout has been designed with the driver in mind. Except for the fuel gauge and voltmeter, every instrument is clearly visible from the driver's seat. Although the radio was basic, it was easy to use and put out good sound for a stock audio system. One thing which was bothersome was the absence of automatic seatbelts in this model. It would seem that a new car equipped with a driver's side airbag would also have automatic seatbelts. Other than that, we were pleased with the way the compartment was put together.

The car we test-drove had a 5.0

liter engine capable of delivering 205 Hps. There are two other engine options which provide more horsepower and torque.

The Trans Am's engine idled well and had very good throttle response. The throaty growl of the motor had a decidedly authoritative note, and acceleration was decent for the test drive. The mileage on the Trans Am is quite good for a high-performance car, getting 17 mpg in city and 25 mpg on the highway.

After a test driving the T/A (courtesy of Billy Grubs Pontiac) its 0-60 time was a mediocre 9.5s. However, it turned over a 18.8s quarter. This is probably due to the low rear end gear which allowed the car to accelerate like a bat out of hell at 100 mph.

The car handled and cornered extremely well during the test drive at both low and high speeds. The steering was a bit stiff at slow speeds, but loosened up at higher speeds. There was very little body roll due to the Rally-tuned suspension. The suspension also reduced the nose dive during hard braking. Even without anti-lock brakes the car remained responsive and slowed within a reasonable distance. The tires provided good traction, even in the difficult turns we put the car through during the test drive.

Pontiac seems to have put together a successful performance vehicle



Photo by Brad Doherty

Building excitement...

An all new body style and reworked interior design for the 1992 Trans Am is apparent in this picture.

for 1992. The Trans Am measures up to every standard for high-performance domestic exotica. The standard equipment and options are more than enough for the average automobile enthusiast.

The price is not bad either, with the base models going for around \$18,000.

Our impression of the 1992 Trans Am is that it is certainly a car worth checking out.



Photo by Brad Doherty

From the nose down...

The Pontiac Trans Am poses for a shot next to the Daytona Dog Racing Track.

Safety course labeled a success

by Michael Lubanski
Special to the Avion

While most people were still in bed last Sunday, about 20 motorcycle riders from ERAU were honing their riding skills. With the help of his wife and two other instructors, Mr. Chuck Spicer of the Motorcycle Advisory Council passed on his "better biker" riding techniques to the group.

The course began at 8:00 a.m. with a brief classroom chat and then a riding evaluation. Many riders were feeling good about their skills having made it through the evaluation run without much difficulty. However, it was quickly pointed out that riding the course without hitting the cones does not mean you did it correctly.

Technique is the key - survival is the goal. The training crew went on to show the class what was wrong with their riding. Then, the proper techniques were discussed, demonstrated and drilled into the riders. S-turns, figure eights, 90 degree turns, U-turns, braking, skidding and reacting to hazards were all elements of the course.

Mr. Spicer says, "We guarantee that no matter what level of riding you are at, you will be able to turn, stop and react faster after this course. We help you to know your bike and give you a new attitude toward riding. The more you know the better it gets." These statements are echoed by participants words and in their improved riding performance.

The Riddle Riders Motorcycle Club has been coordinating this course at a reduced price for the students of Embry-Riddle for 7 years. A special thanks goes to the S.G.A. for their contribution and to Parking Services for offering to waive the motorcycle parking fee for graduates of the course.



Survival is the goal...

(left) Chuck Spicer leads the course participants through slow maneuvers. (right) Brandon Denzer negotiates the S-Turn in the safety course.



Photo by Jeff Hart

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'72 Yellow and black hearse, \$1750 OBO, 34k original miles, great shape, comes w/ matching coffin/cooler. Call Jimbo 252-8598

1985 Pontiac Firebird, PS, PB, AC, new radiator, brakes, runs good, 88,000 mi., V-6 engine w/ fuel injection, blue w/ tan interior, \$4000 negotiable, serious inquires only, call Jim (904) 252-6050.

Chevy Impala 1978, good condition, \$600, 322-0894, ask for Daisy.

Porsche 911 E Targa '71, European model 77S engine, Gotti rims, 930 front end, 3" lowered suspension, too much to list. Must sell. \$11,500 O B O. Call Chris 673-5202.

1980 Pontiac Sunbird, not much to look at but it runs. \$250, call 274-4132, ask for Kevin.

1966 Mustang Convertible, 289-V8, auto, trans., PS, new tires and brakes, exc. condition. Need to sell fast. \$11000 OBO. Jason 257-4312 evenings.

→ Roomates & Rental

One bedroom condo for rent, AC, heat, washer and dryer, 8 minutes from Halifax Hospital, DBCC Royal Palm Court condo, \$350 mo. Call Elizabeth at 254-3111 leave message and phone #.

Two roommates needed, you will each have your own bedroom with private bathroom. Nice pool, across from the beach, \$230 month each roommate. Call after 6 p.m. or leave message on machine, 761-6840.

2 bedroom apt., clean and cheerful, livingroom, dining room, new tile bathroom, \$425 month, plus gas and electric. Call 254-4730.

1 bedroom, 1 kitchen, tiled bathroom, all utilities and cable TV included, 1 person 340 month. Call 254-4730.

→ Misc. for sale

King size waterbed for sale, \$100. Call 672-5252.

Macintosh 512k computer, needs to be upgraded to 512KE. \$400 Call Gene or leave message at 248-0975.

IBM Hardware: 360K Floppy drive and dual floppy drive controller card \$30; Color monitor and CGA card \$100; internal modem \$25; Buy separately or together for discount. Call Rich between 12 pm and 5 pm daily at 248-2472.

Sony Am/FM disc player, Sony cassette player, Sony graphic eq. (all digit), 2 Sony tweeters, 4 Sony 6" 2 way, 2 10" kickers, 2 X 35 watt amp, 2 X 50 watt amp, 2 X 100 amp, 2 70 amp, and Code Alarm with invisibeam, \$1300 in box or \$1500 installed into your car. Call for demo, must sell, will take best offer. Call 788-9871 and ask for Greg.

Nintendo for sale, games included! Contact Howard Dugger in Dorm 1 Rm 144 or Box 8277.

Emerson Digital AM/FM Cassette player/recorder, clock radio with dual alarm setting and message indicator, \$45, absolutely brand new, Call 255-2100.

Stereo, JVC, super A reciever, Quartz tuntable, KD-D30 stereo cassette deck, and 2 14 inch speakers. Excellent condition \$250, Call (904) 789-3888.

Calculator, financial, HP 12c, \$25, includes handbook (904) 789-3888.

Desk, ladies writing, 3 drawer, cherry provincial finish \$100, (904) 789-3888.

Ladies bicycle, Huffy, 26 inch, 3 speed \$100, (904) 789-3888.

10 speed bicycle, Pugeot, 700c wheel size, 21 inch frame, wired for Cateye cyclocomputer. Must sell \$295, Call (904) 789-3888.

2 piece living room set: couch, loveseat and 3 tables: coffee, end, sofa and 25 in. TV with remote, all for \$1600 OBO. Call Angelo at 760-5291 or box 4243.

Emerson dual cassette, phono, 4 band graphic EQ stereo system with tower speakers and remote, \$75 OBO. Call Marc at 238-1417 or leave message at box 7463.

Brother electronic typewriter with built in 60,000 word spell dictionary and 4000 character storage memory, \$50 OBO. Call Marc at 238-1417 or box 7463.

Portable slate top bar for sale with matching heavy pine bar stools; Misc. lamps, pictures, answering machine, clock radios, misc. items, call, may have what your looking for. Lori 761-1734.

Van Halen ticket for sale, Orlando Dec. 14, decent seat, \$50. Box 6736 or 257-2472.

Kenwood car CD player, 2 yr. warranty, \$200. Call Rob 257-3412.

Kenwood CDP-90 multi-play CD player, 6 disks, fully programmable, wireless remote, 3 extra disk magazines. Like new \$130. Call Rich at 253-0333.

Vacuum cleaner (hoxes, everything) \$30. Dirty refrigerator \$40. Call 760-2781 leave message.

Books for sale: AS 253, recips, AS 201, MA 112, AS 309, AV 301 and more. Call 274-5025.

Giant 5' X 2 1/2' desk for sale, great for flight planning or mechanical drawing. Asking \$45, call 274-4132 and ask for Kevin.

→ Miscellaneous

Is anyone driving to the central New Jersey area during the Christmas break? If so, contact Beth 252-0638 or box 1393. Willing to split 1/2 gas and driving.

I'm still looking for a pretty young lady, (over 21) intelligent, open minded, smart and demanding. If you're looking for somebody to share a unique relationship, I might be the man you need and that needs you too! Please leave a message at the Avion under code name Santa Clause.

Custom racquet stringing. \$10 for a satisfaction guaranteed string job. All racquets. Call 274-2878 ask for Sonny, or come see me on the tennis courts 2:30-3:30 M-F.

Hate to type? Let me do it for you! I will type and print your reports, essays, term papers or homework. Reasonable rates and 24 hour service. Must be legible. Call Diana 760-1440.

Looking for that picky female? That is looking for that fun, exciting male! I'm open minded, love animals, horse, motorcycles, camping. But tennis, well that is so boring. I'm only 5'11" but I'm not fat. I hate Florida and every thing it represents. Basically I'm a Riddle Geek! What possessed you to put this ad in here anyway?

Anyone going to Atlanta for Thanksgiving? I am looking for a ride. I will help pay for gas and drive part way. Call Dave at 252-6050.

Flight instructor! Learn to fly. Cheap, through instruction given at your pace. Fly at a local airport. Keeping current, getting a rating, or need extra practice? Contact Karl at 756-7061.

Anybody interested in getting a hand started for up and coming B-Ball games, come by 110 at RH 2. Ask for Curt or leave a message in ERAU box 3092.

T-34B Here's your chance to fly in a warbird! Get behind the stick and feel the excitement of the high performance trainer. \$60 per hour or \$30 for 1/2 hour. Call Dave at 756-5760.

To the woman looking for an exciting male, I am the buffest of all jocks. I am 6' 1" and enjoy all sports. I have the intellect of a chimp, I think we would be compatible, NOT.

Open minded male seeking other open minded males for friendship. I am 21 with BR. / bl. I am straight acting and discretion is assured. Please send letter/phone/photo to P.O. box 3926, Daytona Beach, Fl, 32118. This is not an ERAU box number.

GWM- 21, looking for other gm's for friendship, company and fun. I know there are others out there, because this school is not as conservative as everyone thinks. Let's talk! Write box 5588, Sincere responses only please.

LEARN TO FLY! Get your pilots license or continue with your flight training. Quality instruction at low rates. Aircraft rental \$36/hr, "block time." Train at a local airport. Contact Jack "CFII" at 756-1491 or leave message.

Reasonable flight instruction. Private, instrument or commercial. Best rates around the area, flexible schedule. Plane rental \$36/hr. Contact Tom at 677-6895, CFII.

→Personals

KORY We all hope you get well soon. EVERYBODY

DON JUAN, RUDEDOG What happened? You guys chickened out! What happened to the MGO you slam necks. Care to go for double or nothing? Probably not because you need you elbow room bag lappers. THE BOYS FOR NYC

WHITE FUZZY BUNNY Where are you? Are you okay? Come home soon, You're missed

MR. FROST I'm cold, I'm wet, I'm very, very, mad at you, but look on the fright side! I'm your little "sweetie" now! Tough luck! You're stuck with me! Ha, Ha C.E.

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→ Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with 35 word limit.
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→ Classified advertising is carried out by filling out a classified ad card in the Avion office.
→ Only one classified ad per card. Name and address of advertiser must be included for the ad to run.
→ Only paid ads will run for two issues and may be renewed by filling out another classified ad card.
→ No classified ads will be accepted over the phone.
→ For more information, stop by or call the Avion office at (904) 226-6049.

DEAR 1/4 TERMINATOR He is a nice guy. Too bad his days are numbered. I like him, thats why I'm going to kill him last. I lied. INSANELY JEALOUS AND WILLING TO COMMIT ATROCITIES

ERIC C Why? Why? Why? SPUNK

DC Can I take your temperature again soon? SPUNK

SNAGAFISHSMELLY Nothing better to do than bore the pants off people and take up column space? Move it or lose it! DS

TO ALL MEMBERS OF CRAP I am bringing the fleet to dispose of your forces. COMMODORE STLYES

Ashes to Ashes, Dust to Dust. If you don't pull it out and use it, it will rust. SHADOW

DEAR PJO I knew I wouldn't get one, so I figured you could! Anyway, it's the thought that counts. LOVE, MF

TO THE COACH AND THE TEAM My polyester is a magnet, so look out. IN HOC SCARY SHEET MAN (ALIAS SPOOKY SHEET GUY)

NEIL Who is Major Harris?

CHUCK II Hello! IN HOC LOVE THE TOASTMAN

CHUCK Do you have luck finding a duck, or a buck, or a hockey puck in a truck, covered with muck? HUCK

HAMMER Where's the m'shroom pizza you promised? Thanks a lot. Our "psychedelic room" needs to be cleaned! Ask me how my weekend was! Without you, how sad. Lonely? Not! Woodstock rules, man. Who is it this week? I love ya babe! CHART

SANDY Glad you liked the rose. We should get together soon. Got any ideas? I'm open to suggestions. NOT SO SECRET ADMIRER

WOODHEAD Look around! You're acting like one of the ducks. Are you a Quack in a lame disguise? Riddle chicks are too smart to even look at you. They might turn to stone! Deal with it, Bird Brain. Just remember: Elephants are bold and beautiful. Wood-peckers are annoyance, like ducks! You're on my hit list now! Watch your tail feathers. DUCKSLINGER

LOREIN Hope I spelled your name correct. You've been looking great lately. Wonderful transformation. PEANUT-ISHER

GUINEA AND THE DEVIL: Backstabbers! Alright, man. That's cool! ME

THE DOCTOR Thanks for the help on the ad. THE WEEKEND NOCTURNAL

3RD NORTH BAD BOYS Now who sucks 3rd North excrement craniums. 3RD WEST NOCTURNALS (THE DOCTOR)

CRYSTAL AND THE GIRLS Thanks for organizing our wing and bringing us to victory. 3RD WEST (THE DOCTOR)

3RD WEST NOCTURNALS ARE THE COOLEST

CRYSTAL Thanks for the radical hair. THE DOCTOR

DEE How does it feel to be up to your neck in swamp mud? DEL

CN'H PHILOSOPHY #4 Revenge is sweet, but seriously, kicking butt is awesome! Don't let anyone get you down. If they do, just beat em up!

HEY JOE Thanks for flipping my canoe, making Don lose this shoe, and giving Al's ear back. You shouldn't be stealing off drunk people, and Al promises to learn how to steer, while Intoxicated. THE BOYEES

HEY Has anybody seen my shoe floating down the river. It should be floating down with a couple of Coors light cans. DON

Be wary of what you wish for - You just might get it. DORIAN GRAY

TAMMY, NIK, KIP Can you dig it? Of course you can. You can also sled, roll, fall and make angels in it. Bet you know what "it" is. Think "it." MXL

SNAGGLEFLASHTELLI, PICARD, RIKER Give it a rest. You guys have been spending too much time in the holodeck. EMPEROR LETO ATREIDES II, RULER OF THE UNIVERSE

Calling all sisters of the Boulevard. Come out, come out, where ever you are. Place your thoughts, comments, and personals in the Avion. It is time to do something! THE BAR SLUT

And the Queen said, "He shall not be given a chance because it is what I deserve. So let it be written, so let it be done." LORD KRÖTS, PROTECTOR OF THE CROWN

MURF. They say love is blind, are you? Peasant rabble like yourself should know royalty is above and beyond you simple ways. SCRIBE OF THE QUEEN

TO KARI (3rd NORTH) How dare you call yourself a New Yorker with your taste in women? You could've chosen a girl who is in shape and without an attitude! Disappointing!! EAGLE ONE

JOHN "THE MAN IN THE BOX" Isn't it impossible for there to be a man in the box? Are you looking at me? AMSTEL LIGHT

SANDMAN Please define: scranus and tam? BUSTER HYMAN

TO KARNEY Eat my propwash. The day you find me is the day you can actually fly a plane. BALLOO

GARY When I saw that you were the man in the box, I realized that you are evil and that I must get out. SANDMAN

LISA There once was a guy named Todd. Who might now think you're quite odd. For you were a nice girl, but gave a great haul, and blew chunks all over his bod. THE SANDMAN

Hello pilot type persons. It is I, Don Karnage. I have brought my wonderful self here to get Balloo. I know you are out there Balloo. So, coming or not I am ready! THE BEST PIRATE IN THE WORLD

WOODY If you don't care what others think of you, then continue expressing yourself as long as you like. But don't stop because of threats. No one will do anything to you since that would only make them lower than you. I don't understand why people even care what a narrow minded sexist thinks or says anyway. JEFF POSTER

HEY KWAK Leafs suck, republicans rule! MENTAL.

ONE IN SECURITY Thanks. Got your message. Now I'm not a "Personals Virgin." How about some flowers? Twelve white roses if you please. PIN S.A.

MIKE, BEN & KEITH It sure would be nice to see you guys now and again on Tuesday and Thursdays. We all miss you terribly. THE ONE WHO KNOWS YOUR BUSY BUT UNDERSTANDS NOT!

KND I've heard that "POP Rocks" work on unclogging sinuses. It's just so hard-stoving them up your nose! ONE WHO NOSE

TIMMO Things that make you go mmm... Ah ha, Ah ha... ZEUS

JESSICA Did all of your hair grow back yet? I'm still digging parts of that tree out of my face. Thanks for the notes in ATC. DEL

R.O.N. How big is the back seat in a LeMans? ALPHA TAU PLEDGE CLASS

PIN S.A. Personally, I like red roses better. How did you like Homecoming? I'm never working that hard again. See ya Thursday night. ONE IN SECURITY

PHOTO GOD When do you want to get together and explore? FOX

What it is big momma, my momma didn't raise no dummies. I dug her rap.

TO ALL Go the distance.

He who knows not, and knows not that he knows not, is a fool. Avoid him.

ERAU needs a radio station!

Calvin and Hobbes

by Bill Waterson



Far Side

by Gary Larson



Mister Boffo

by Joe Martin





Mother Goose and Grim

by Mike Peters



Recreational Flights Leaving Daily.

	<p>Sunday</p> <p>Laser Karaoke Night.</p>	<p>Tuesday</p> <p>Two for Tuesday - \$ 2.00 well drinks until close ERAU Night - 50¢ drafts for ERAU students. \$3.50 Pitchers of Draft.</p>	<p>Wednesday</p> <p>Country Music Night with Station 98 Frog</p>
<p>Thursday</p> <p>Drink and Drown</p> <p>10.00 cover and all-you-can drink (No bottle beer, cordials or frozen drinks).</p>	<p>Friday</p> <p>Waves Hungry Hour 5-8 PM \$2.00 Cover - Hot & Cold buffet, \$2.50 well drinks, \$1.00 draft beers, and live entertainment. Live music by "Just 2 Much" 10:00 PM - 2:00 AM. Top 40 dance & rock music. \$1.75 Coronas and \$1.00 Tequilla Shooters.</p>	<p>Saturday</p> <p>Live music by "Just 2 Much" 10:00 PM - 2:00 AM - I-100 host the "Heart Throb" game beginning October 12th.</p>	

Take a break from the books and take off to a party ... A party just for you...ERAU Night happens every Tuesday Night with contests & giveaways and .50¢ drafts when showing your I.D. But every night at waves is hot! Dance to the latest sounds, enjoy great drink prices and live music every Friday & Saturday nights - so come to Waves tonight and make the right approach to a great night out.