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# SPACE TECHNOLOGY

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## ORBITER UPDATE

**Columbia** - Columbia is at Launch Pad 39A where the three main engines have been removed and replaced. KSC workers continue to perform mates and electrical checks on the main engines in preparation for an April 24 launch of STS-55. This is the fourth launch date in two months for the troubled mission.

**Discovery** - Discovery was supposed to launch on STS-56 early Tuesday morning, but an instrumentation error caused the flight computers to halt the countdown at the T-11 seconds mark. NASA will attempt a launch at 1:29 a.m. on Thursday morning.

**Endeavour** - The Space Shuttle Endeavour is in the Vehicle Assembly Building where it has undergone hydraulic line circulation checks and liquid oxygen closeouts.

**Atlantis** - The orbiter Atlantis is in Palmdale, California for modifications at the Rockwell International plant. Over the next several months Atlantis will be inspected and upgraded to be ready for its next scheduled launch in April 1994.

## Discovery payload to study Earth's ozone layer

Associated Press

BOULDER, Colo. - When the space shuttle Discovery launches on STS-56, it will be carrying experimental apparatus designed, built and tested by University of Colorado students.

The experiment will explore a mysterious type of radiation that could shed light on the creation and destruction of ozone.

Pete Warren, systems engineer for the project, said the experiment provides a hands-on learning experience for the students that encompasses engineering, physics, public relations and computer programming.

After the project was upgraded last summer from a low-priority project, NASA committed \$300,000 to include it with other experiments studying the sun that will be aboard Discovery.

Extreme ultraviolet radiation is the last region of the electro-magnetic spectrum to be explored. It is mysterious partly because EUV is almost entirely blocked by the Earth's atmosphere so it must be studied from space.

"Since the 1970s, data on EUV has been sparse and not very accurate," said Anthony Colaprete, a CU graduate student and the lead scientist on the project. "This experiment will collect data with a better precision and accuracy than has been done."

The experiment cost only \$25,000 to fashion by the nearly 100 CU students working on the project.

The ozone layer 10 to 30 miles above the Earth blocks most ultraviolet rays. EUV provides energy that creates the unique chemistry of the Earth's outer sphere.

"EUV would not allow life as we know it to survive on the Earth," Colaprete said.

Chemicals released by industry and from refrigerators and air conditioners combine with ultraviolet light to destroy ozone, creating the "hole" that has been observed for a decade over the Antarctic.

## Discovery launch scrubbed at T-11 seconds Computers halt countdown after faulty sensor detects valve problem

By Brian Gamage  
Space Technology Editor

The flight computer on board the Shuttle Discovery scrubbed the launch of STS-56 at T-11 seconds early Tuesday morning after it detected an engine valve problem.

The launch sequence, that was originally scheduled to end at 1:32 a.m., was delayed nearly an hour due to weather violations and an abnormally high sensor reading.

STS-56 remained on hold at the T-9 minutes mark while launch controllers assessed the cross wind component at the Shuttle Landing Facility (SLF).

Night launch constraints, which are slightly different than those for a day launch, call for a maximum allowable cross wind of 12 knots. Weather instruments were reading a 15 knot cross wind, which is acceptable under day launch conditions.

NASA controllers reported better visibility than usual due to the full moon and decided to follow the weather constraints for a day launch.

The cross winds at the Kennedy Space Center (KSC) need to be below a certain speed to allow for the possibility of an emergency abort landing at the SLF.

The hour delay was also caused by a temperature transducer on an anti-flood valve giving a higher than usual reading. NASA controllers were unsure what the anomalous reading meant and whether it could suggest a leak.

After nearly thirty minutes of weather and valve data analysis, launch controllers gave the go ahead to resume the countdown at the T-9 minute mark.

In the nine minutes before launch, flight computers must perform over 1,000 different measurements to ensure that the orbiter is in

an acceptable launch configuration.

At T-11 seconds these computers detected an instrumentation anomaly on the liquid hydrogen high point valve, which indicated that the valve either failed to close or didn't close fast enough to put the propulsion system in the correct configuration for launch.

Yesterday, the launch team worked under a 48-hour scrub turn-around schedule and after NASA administrators reviewed the launch data, decided to try launching STS-56 again. The new launch time is 1:29 a.m. early tomorrow morning. There is currently a 90 percent chance of favorable weather for the launch.

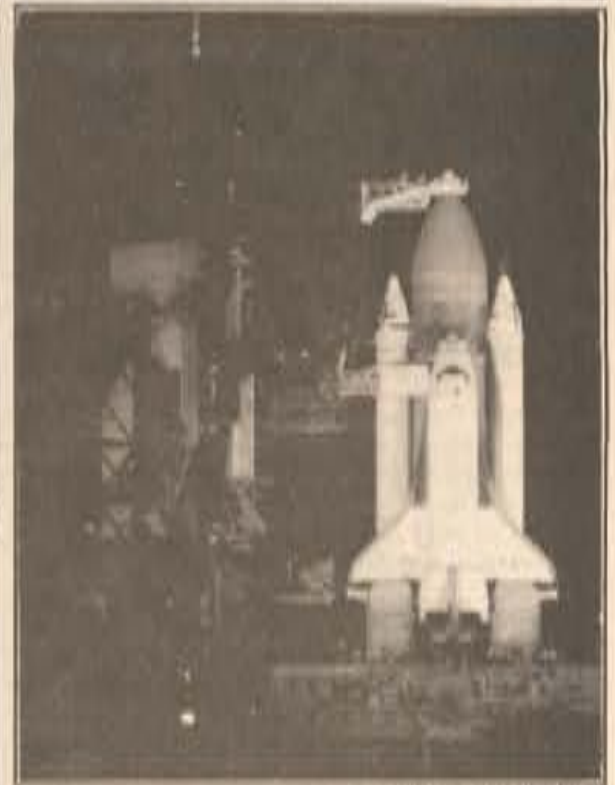
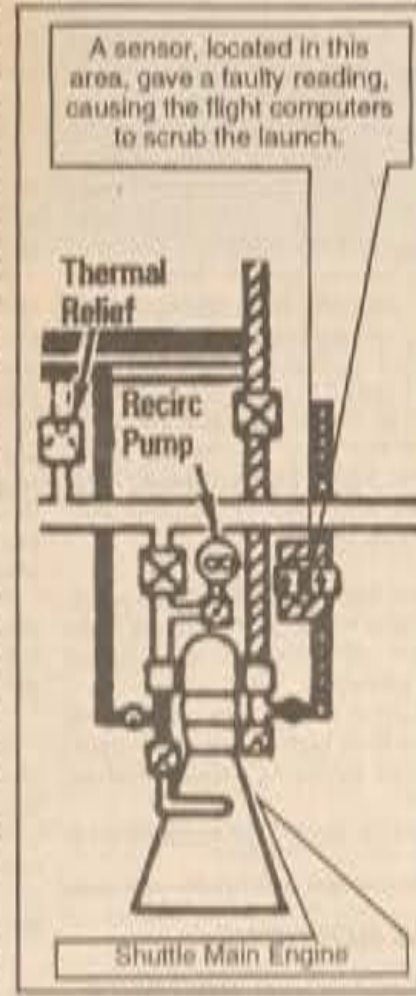
The STS-56 crew will be commanded by Kenneth Cameron who will be making his second shuttle flight. Stephen Oswald will serve as pilot and will also be making his second flight. Rounding out the crew will be three mission specialists - Michael Foote, making his second space flight and Kenneth Cockrell and Ellen Ochoa, who will be making their first flight.

The crew of STS-56 will conduct experiments using the Atmospheric Lab for Applications and Science (ATLAS)-2 and the Shuttle Backscatter Ultraviolet payload.

The space shuttle is the ideal platform for NASA's remote-sensing atmospheric laboratory. The flight crew can maneuver the orbiter so the instruments in the bay point precisely toward the atmosphere, the sun, or Earth's surface as necessary for scheduled observations.

The source of solar wind and the possible applications a microgravity environment can provide for research in drug development and the changes which occur in muscles and bones in a weightless condition are some of the other areas to be investigated during the STS-56 mission.

The data Discovery will gather can help scientists understand the effect of the sun's energy on the Earth's ozone level.



The countdown clock (top) says it all, while Discovery sits on Launch Pad 39B (above) after the launch of STS-56 was scrubbed due to a main propulsion system valve problem (left).

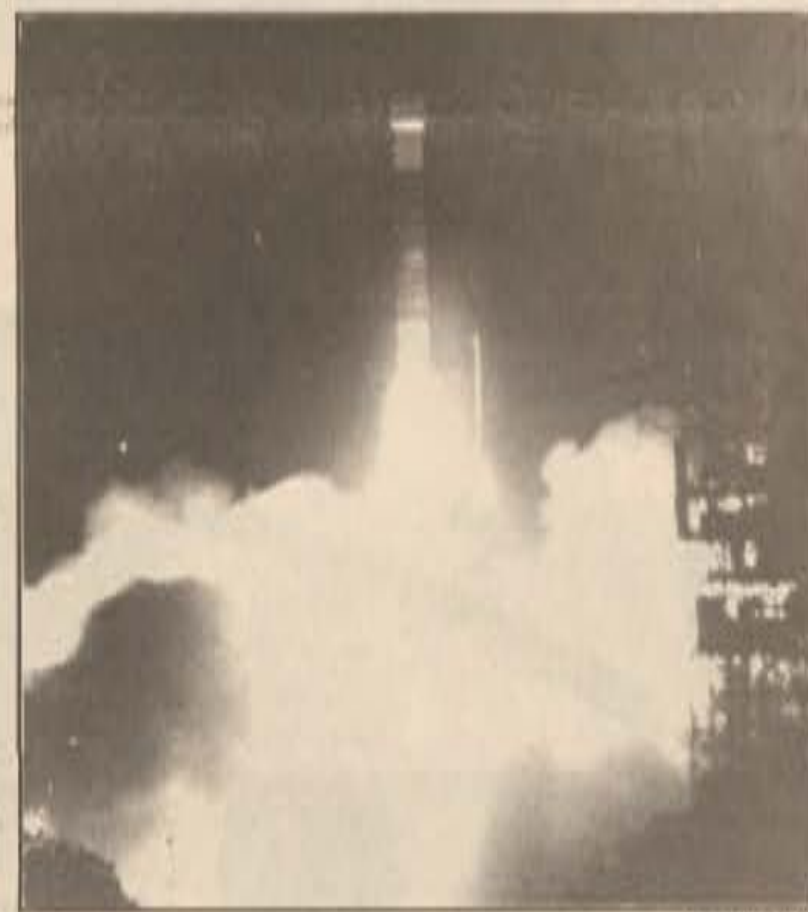


Photo by Mike Dierhart

The Delta Launch vehicle carries a Global Positioning System satellite into orbit on a bright column of flame, illuminating the Cape Canaveral launch complex.

## Atlas rocket puts satellite in bad orbit

By Todd Engelman  
Staff Reporter

On March 25, an Atlas I rocket failed to place a Navy UHF satellite in a proper orbit. The AC-74 mission appeared normal until 24 seconds into the flight.

At this point the thrust produced by the Atlas booster stage started decaying to only 65 percent of nominal level.

The Atlas booster cutoff was late causing less propellant to be available for the sustainer stage.

The Centaur upper stage attempted to make up for the anomaly by burning an extra 24 seconds during its first burn. This placed the rocket in a proper parking orbit.

However, the propellant depletion caused the Centaur's second burn to be 21 seconds too short. The result was an orbit 3000 nautical miles lower than planned.

The Hughes HS601 satellite is now in a stable orbit with a proper spin rate.

Unfortunately, Hughes engineers do not feel the satellite can be boosted to its intended orbit. They are

currently reviewing their options for correcting the situation.

"While this mission is obviously a great disappointment to us, we are gratified that the Centaur performed beyond our expectations," said Michael W. Wynne, Space Systems President.

General Dynamics said this was the first Atlas problem since 1977. They are not expecting the AC-74 mission to significantly affect the present launch schedule for the Atlas II presently on Launch Complex 36A.

General Dynamics has assigned retired Lt. Gen. Forrest McCartney to head up the Major Anomaly Review Board, which will consist of senior industry officials.

The Atlas/Centaur is NASA's standard launch vehicle for intermediate payloads. It was first used in 1966 to launch Surveyor I to a soft landing on the moon.

This rocket stands 137.6 feet tall and develops 438,400 pounds of thrust at takeoff.

It can be used to place over 10,000 pounds into low-Earth orbit or place 4,453 pounds into geosynchronous orbit.

## Delta rocket deploys GPS

By Mike Dierhart  
Staff Reporter

The Air Force successfully launched a Delta rocket two weeks ago after three unsuccessful attempts.

The rocket carried into orbit a Global Positioning System (GPS) satellite owned by the Air Force as well as a NASA tether experiment.

The GPS satellite will add to the 20 already orbiting the earth to fill in the grid of coverage. The Global Positioning System is already in extensive use by airliners as well as by transoceanic navigators. In addition it is used by military units on the ground to pinpoint their location within a few meters.

NASA also launched a mission on the rocket testing the Small Expandable Deployer System (SEDS).

SEDS is a low-cost method for deploying small payloads such as satellites to higher orbits or downward towards Earth's atmosphere. The concept tested was similar to that explored in August 1992 by the

### The Two Tether Systems

**SEDS** - This system only cost NASA \$10 million to perform one experiment.

**Shuttle** - The shuttle tether system cost NASA \$379 million to perform one test and failed.

failed Space Shuttle Tethered Satellite System although the two differ in cost, size and method of deployment.

SEDS is designed to be a versatile and economical system for relatively low-cost unmanned missions. The SEDS test will cost NASA only \$10 million, in contrast to the \$379 million dollar bill of the failed shuttle tether experiment.

The SEDS hardware consists of a toaster-size electronics box, a braking system, a 12 mile long tether, a tether cutter assembly, and a payload. The tether itself is constructed of super strong and non-

conductive polyethylene fiber that can withstand 175 pounds of stress before breaking.

It resembles several twisted strands of dental floss.

When the tether was nearly fully extended the brake slowed the unreeling. The cord and box then swung like a pendulum below the booster and the tether was cut.

The payload then drifted down into the Earth's atmosphere where it burned up. The test was completely successful and the data gathered will be used to modify future experiments.

This first SEDS flight weighed 85 pounds and successfully tested tether dynamics and the general performance of the system.

Future SEDS flights will involve more extensive testing of the braking system of the apparatus.

Potential applications for tethers include using them to drop experiment laden capsules from space stations to Earth, generate space station electricity, create artificial gravity, fly atmospheric instruments at high altitudes and change spacecraft orbits.

## The edges of science... The universe is made of "little beers"

By Arle Moller  
Column Editor

In primary and secondary science classes we were taught that everything is made up of three types of particles, the proton, the neutron and the electron. Folks, we were lied to.

In the 1960s a series of experiments performed at the Stanford Linear Accelerator Center (SLAC) and the Massachusetts Institute of Technology (MIT) showed that existence of a "sub-particle", a particle which makes up the "fundamental" proton, neutron, and electron model. In this way, the quark was born.

Quark is a completely unscientific term that comes from Finnegans Wake by Joyce. One interpretation of the word is "little beer" and the particle was named such pretty much as a joke.

When first proposed that the basic building blocks of matter were really not basic building blocks, the scientific community snickered. Evidence mounted for the "little beer" though in 1961.

Particle accelerators came of age in the 60s. Particle accelerators are in essence big collision machines that ram particles such as protons together.

According to Einsteinian energy mass equivalence, the particle kinetic energy and the mass of particle combine to make new types of particles. In this way particles such as the pi meson, and other exotic particles were discovered.

Particle physicists were faced with a mounting problem in the early 1960s.

Particle accelerator experiments kept coming up with new particles in such a rapid succession that the physicist was faced with an ever enlarging zoo of particles that would not reduce to the classical particles.

Enter Dr. Gell-Mann and Ne'eman. In 1961 they collectively came up with SU3 model or Subatomic Unit 3 model. In this theoretical model all the numerous particles were reduced down to three basic quarks - the up, down and strange quarks and their antiquarks. For example, the proton was proposed to consist of two up and one down quark. The neutron was said to consist of one up and two down quarks.

The problem with the model, mathematically it simplified particle physics, but still physicists did not "see" direct evidence for the existence of the elusive quark. By 1973, the science community had seen enough to conclude that quarks are a reality.

In 1973 the SPEAR group headed by Dr. Roy F. Schwitters, announced that not only do quarks come in the up, down and strange variety but also a new kind called charm.

The charm quark was found by accident. During a series of accelerator tests at 3.2 GeV, the team collected unexpected data. The data recorded 100 times the events expected at that energy level. An event is a particle or amount of radiation.



# Newly powered IL-96M unveiled in Moscow

Pratt & Whitney Press Release

The Ilyushin IL-96M aircraft, equipped with four Pratt & Whitney PW2337 engines and avionics by Rockwell Collins, made its public debut on March 30, 1993 during a rollout ceremony at the Ilyushin Design Bureau in Moscow. The event was hosted by Genrikh V. Novozhilov, general designer at the Ilyushin Design Bureau. The IL-96M will make its first flight in April, commencing the start of a two-year flight test program.

The aircraft will be certified in 1995 in the Commonwealth of Independent States and approved by the U.S. Federal Aviation Administration according to a bilateral airworthiness certification program.

"This is a proud day for all of us at Pratt & Whitney," said John S. Carney, Pratt & Whitney (P&W) vice president-marketing for the CIS and Eastern Europe. "Today's rollout marks a milestone both in Pratt & Whitney's warm partnership with Ilyushin and in the growing relationship between the CIS and

United States."

Pratt & Whitney is providing ten PW2337 propulsion systems for two IL-96M certification and development aircraft. Six propulsion systems have been delivered. The PW2337, a member of Pratt & Whitney's PW2000 engine family, produces 37,000 pounds of thrust for the IL-96M.

Ilyushin and Pratt & Whitney signed an initial basic agreement to pursue the IL-96M program at the 1991 Paris Air Show. The P&W-powered IL-96M will fly at this year's Paris Air Show in June.

The IL-96M is a wide-body, long-range transport that will carry 318 passengers on non-stop routes of up to 11,500 kilometers (6,200 miles).

A larger version of the recently certified IL-96-300, the IL-96M features a two-person cockpit and can be configured for cargo operations. To date, letters of intent for 30 IL-96M aircraft have been received from Russia International Airlines, Uzbekistan Airways and Far East Aviation. Pratt & Whitney is the exclusive engine supplier for the IL-96M, which in turn is the newest application for the PW2000.

Pratt & Whitney's mid-size engine, ranging in thrust from 34,000 to 43,000 pounds of thrust, has accumulated more than five million hours on the Boeing 757.

The PW2000's military variant, the F117-PW-100, is the sole powerplant for the U.S. Air Force's C-17A cargo transport. Pratt & Whitney has delivered approximately 680 PW2000 and F117 engines to customers around the world.

Pratt & Whitney is joined in the PW2000 program by three European partners: MTU of Germany, Volvo

Flygmotor of Sweden and FiatAvio of Italy.

"The IL-96M represents an exciting new market for the PW2000," said Carney. "We're confident of the market prospects for this beautiful aircraft and look forward to presenting it to the worldwide aviation industry at the Paris Air Show."

In addition to Novozhilov and Carney, today's ceremony was attended by officials of the Russian and American governments and representatives from Rockwell Collins and other western suppliers and partners.

## ERAU graduates setting new standards in parachute manufacturing

By David Fitzgerald  
Staff Reporter

The name of the company is "Performance Designs" and they are located in Deland Fla. What makes this company so special is that it is owned and operated by Embry-Riddle alumni.

Bill Coe the President and founder of Performance Designs graduated from Embry-Riddle with an Aircraft Maintenance Technology degree. He started Performance Designs nearly 10 years ago.

John LeBlanc, Vice President of Performance Designs graduated from Embry Riddle in 1983 with an Aeronautical Science degree and joined the Performance Designs team 8 years ago.

Both Coe and LeBlanc were experienced skydivers before meeting at ERAU in the early 1980s.

Coe always knew that parachute manufacturing would be in his future but it wasn't until a few years later that he was reunited with LeBlanc.

Being sky divers, they understood that the wants and needs of the average sport skydiver were not being fulfilled because the equipment they desired did

not exist.

The manufacturers did not offer much performance in the way of glide ratio and landing ability. So, Performance Designs decided to experiment with new airfoils and aerodynamic techniques. With this in mind, Performance Designs has introduced many innovations which have radically changed the market of sport skydiving.

With the introduction of "Micro-Line" suspension lines (the lines connecting the skydiver to the parachute) Performance Designs turned the market upside down.

"Micro-Lines" are suspension lines approximately 1/4 the size of normal suspension lines that allow for less drag giving the parachute higher forward speed. These "Micro-Lines" also make the parachute container somewhat smaller.

The second major invention is zero-porosity fabric (fabric which does not let air travel from inside to out). This led to the design of the "Sabre" canopy.

The "Sabre" is a very high performance canopy capable of high speeds and extreme controllability including gaining altitude during flare.

The reason for this greater performance is

that the zero-porosity fabric will cause the canopy to act more like a rigid wing. This allows the designer to easily account for some of the aerodynamics of flight.

Performance Designs is now the company in the industry that everyone imitates. They define the direction of future sport and military skydiving.

Performance Designs is currently a multi-million dollar company with locations in Deland and Miami, Fla. The company's philosophy is to provide equipment that is safe, reliable, high quality and at all performance levels. They will maintain this philosophy at any cost for the simple reason that customers respond to their high level of dedication. For this reason, Performance Designs has never experienced a slow season and continues to lead the competition into the next century.

Performance Designs is also active in the ERAU skydiving club. They have recently supplied a Performance Designs canopy to the club at a very attractive price.

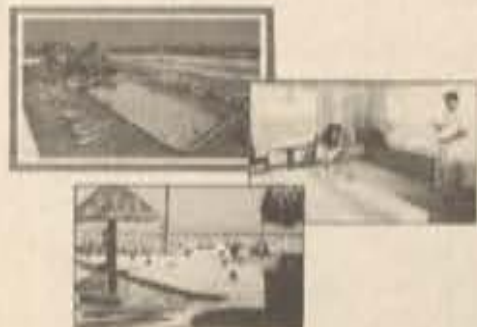
The ERAU skydiving club now owns its own rig which is for use by the beginner skydivers in the club. For those of you interested, the ERAU skydiving club can be contacted through the club mailboxes in student activities or come down to Deland airport and watch. Spectators are welcome!

As John LeBlanc was talking an interesting point came to light. ERAU is truly the "Harvard of the Skies," we have a flight team that consistently places in national competitions. So, why do military schools still dominate at national collegiate skydiving competitions? Isn't it time for ERAU to have a skydiving team of our own?



The "Sabre" is the highest performance canopy in glide ratio and landing ability of any on the market today.

**Performance Designs is now the company in the industry that everyone imitates. They define the direction of future sport and military skydiving.**



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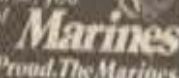


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## Airspace reclassification could cause problems for pilots

By Bryan Gross  
Staff Reporter

As of September, the Federal Aviation Administration's (FAA) new alphabet airspace system will be in effect.

The main reason for the new designations, according to the FAA, is to create an international standard for airspace. Eventually, the FAA would like to see pilots fly into any country in the world without having to master an entirely new set of rules.

Domestic pilots can benefit from the new terminology because it is a simplified version of the old system.

Regardless of the reasons, every pilot must become familiar with the new airspace in order to avoid a costly violation.

The positive control area will be turned into Class A airspace. Class B will be the former Terminal Control Area (TCA), while Airport Radar Service Areas (ARSA) will turn into Class C airspace.

There will be a few new or different regulations that will also come with the new airspace.

Class B airspace will still have the same

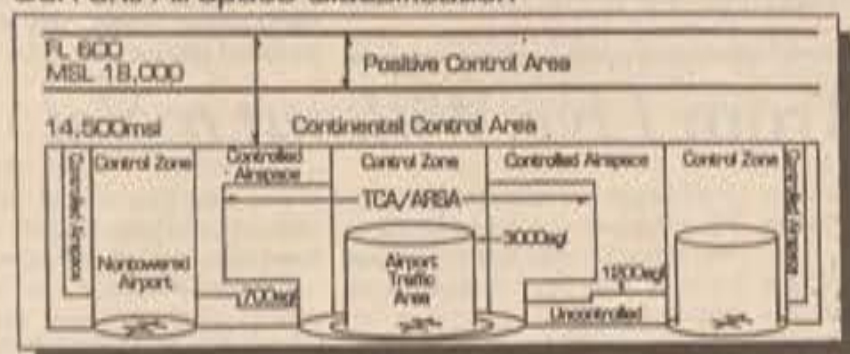
requirements for entry. A clearance, an altitude-encoding (Mode C) transponder within 30 nautical miles of the primary airport, two-way radio communication and a pilot certificate or student certificate with an instructor endorsement would fulfill these requirements. But now instead of needing three miles of visibility to remain in visual flight rules (VFR), only one mile is needed. Pilots will soon only need to be clear of clouds instead of the now current 500 feet below, 1,000 feet above and 2,000 feet horizontal to meet the requirements for cloud clearance.

Airport traffic areas (ATA) and control zones will soon be combined into Class D airspace. The ceiling will change for ATAs from 3,000 feet above ground level (AGL) to 2,500 feet AGL. Control zones will also abide by the same ceiling. Communications with a tower are required for entry into this class of airspace, even for uncontrolled fields. The FAA states that this situation will be avoided as much as possible.

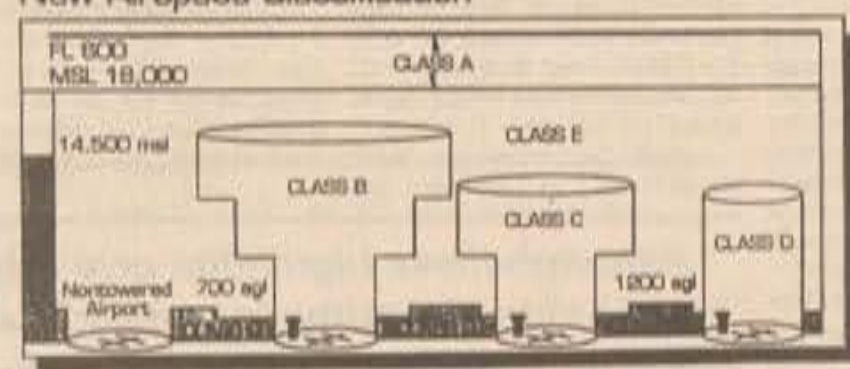
Class E airspace will have the same purpose as controlled airspace does now. Class F airspace has no equivalent in the United

see Changes, page B4

### Current Airspace Classification



### New Airspace Classification



New airspace classification will cause problems for veteran pilots who have grown accustomed to the current way.

## Up, up and away!



A Sikorsky SH-60B Seahawk from squadron HSL-46 flew onto campus yesterday where it was on static display for most of the afternoon. The Seahawk is primarily used by the Navy in the anti-submarine warfare role, and operates from many of the Navy's smaller ships, such as destroyers and frigates. The Seahawk can also be used for search and rescue purposes.

## C-17 wins NAA award for record payload flights

McDonnell Douglas Press Release

Washington, D.C., March 25, 1993 — The new C-17 Globemaster III's record-setting payload flights were recognized here this week as the National Aeronautical Association (NAA) presented one of its "Top Ten Most Memorable Flights" awards for 1992 to the U.S. Air Force and McDonnell Douglas.

The NAA award recognized the C-17's setting of 14 payload-to-altitude records on Dec. 16 and Dec. 18, 1992 as one of the "Top Ten." On those dates, a C-17 — flying a normal test mission evaluating heavy-weight cruise performance — set 12 records in two weight categories by lifting more than 133,000 pounds to an altitude of 35,213 feet.

In addition, the C-17 set two records for

carrying the heaviest payload — more than 67,177 pounds — to 2,000 meters (6,600 feet) in these weight categories, breaking previous records held by a Tupolov Backfire bomber from the former Soviet Union.

Praising the two Air Force pilots who flew the record breaking missions — Capt. John Norton and Capt. Pam Melroy — Brig. Gen. Kenneth G. Miller, director of the C-17 Systems Program Office, called them "the tip of a very large iceberg representing more than 25,000 Americans working and struggling through the development process of a major new aircraft."

"If the U.S. intends to continue to be a world power, the C-17 is absolutely essential to our ability to deploy forces or relief supplies to any spot on the globe and do it in short order," Gen. Miller said.

"The awards received tonight are just

another demonstration of the tremendous capability that this aircraft will bring not only to the Air Force but the nation as a whole. As we look ahead through the remainder of this century into the next century, the C-17 is going to provide the global reach which will allow the U.S. to be a global power," Gen. Miller said following the awards ceremony.

The C-17 "has tremendous capability," he added, and "we haven't even scratched the surface of its record-setting ability." Capt. Melroy added, "For any pilot, it has to be a thrill to be flying an airplane that's capable of setting a world record...to know that you're flying an aircraft that's out-performing the other airplanes out there."

In accepting the award for McDonnell Douglas, Ron Sable, vice president of busi-

see Award, page B4



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# Blade Runner: The Director's Cut adds more background to a classic



Blade Runner: The Director's Cut has added scenes and other little bits of the movie that were left out of the first version, released in 1982. The result is a smoother, yet slower movie of about the same length.

By Jaylin Billig  
Diversions Editor

When *Blade Runner* was released back in 1982, it did not receive as much acclaim as was expected. It did, however, become an instant cult classic, and now Warner Home Video has released the tape of *Blade Runner: The Director's Cut* to a much more sophisticated and eager audience.

Director Ridley Scott said that the audiences of today are ready to absorb his original version of *Blade Runner*, which is still about the same length of 2 hours, but has had many scenes added and many more cut.

In this version of *Blade Runner*, Scott has removed the narration by Harrison Ford, as well as the "happy" ending. He felt that the narration was "overkill," and that the ending scene was contrary to the point of the movie.

Many other scenes never before shown were added, such as more shots of the futurecity, a deeper development of the romance between Harrison Ford's character "Deckard" and Sean

Young's character "Rachael." A long dream sequence featuring a unicorn has also been added, which, as Scott says, causes Deckard to question the nature of his own identity.

The 1982 release was a bit shocking to viewers who had little experience with this new dark view of the future. Since then many more movies like *Blade Runner* have been made, and says Scott, people can understand the movie's message better.

When I watched *The Director's Cut*, I was hit by how subtly different this version was from the one I saw in 1982. The changes aren't radically different from the original story plot, nor do they easily stand out from the other scenes.

One has to have watched the original version very recently to even pick out which scenes are different, excepting the dream sequence and the new ending.

The whole movie seemed slower and longer, even though in reality it isn't. There was less action and more development.

Though this gave me a better understanding of the background of the story, I missed the narration by Deckard, explaining his thoughts and views. For me, the running narration by the main character added feeling to the movie.

Rutger Hauer's character as the leader of the homicidal replicants was developed in greater detail, explaining why he and the other replicants

wanted to return to Earth. I found this an improvement over the early version. In *The Director's Cut*, Rutger Hauer's character was free to express deeper feelings and cultivate a more complete personality.

The biggest problem I had with the movie was the deletion of the movie ending. That was probably my favorite part of the original.

But *The Director's Cut* ended right after Deckard and Rachael got in the elevator. There was no explanation of why Rachel was different from other replicants, no reason for the authorities to let them go. I felt cheated out of one of the better endings I have ever seen in movies.

Otherwise, the movie was excellent, though it added clarity at the cost of action. It had many things that the original didn't; things that I thought should have been left in the first version.

For those who would rather have a complete understanding of a movie, and not a lot of action, *Blade Runner: The Director's Cut* is perfect. Others - like me - will prefer the original version.

**When I watched  
The Director's Cut, I was hit  
by how subtly different this version  
was from the one I saw in 1982.**

# Van Halen's Right Here, Right Now carries on from Live Without a Net

By Steve Mendrychowski  
Staff Reporter

Finally, the band that is famous for leaving its fans awestruck after a concert performance has come out with a long-awaited live double CD/cassette album.

Van Halen's *Right Here, Right Now* was recorded in their hometown of Fresno, California on the last two dates of their *For Unlawful Carnal Knowledge* tour.

I have nothing but extreme praise for this live album. Van Halen has released songs off this one that will become classics. It is only the home video version of the live album that I have a problem with.

In actuality it isn't all that bad. Their onstage performance is phenomenal. The problem with *Right Here, Right Now* is that the

**Each band member,  
following a brief interview,  
performed an outstanding  
instrumental solo.**

recording has a very high budget and is overdone in many areas.

With 15 cameras taping the show, one switching to another about every five seconds, the band's performance comes off looking more like an overdrawn music video instead of a live concert.

Another irritating problem with the taping of the video is that throughout many of the songs, the band members' clothes change in the blink of an eye.

Apparently, the people who did the editing thought it would be a great ploy to splice together pieces of the songs that were sung on both nights of taping, creating a confusing set of images.

When David Lee Roth was still with Van Halen, he was known for doing this several times during a video taping. In fact, he did this in several of his live performances, causing quite a sensation.

On the other hand, there are some

high points of the concert, such as the rousing renditions of some of their older songs.

Each band member, following a brief interview, performed an outstanding instrumental solo. Sammy Hagar played a touching acoustical version of "Eagles Fly."

Alex Van Halen performed a stunning drum solo that climaxed with his drum kit rising in the air. The bass guitarist Michael Anthony performed his conceptual ultra bass solo on his trademark "Jack Daniels" guitar where he created rhythm-filled distortion by beating it with his fists, among other abuses.

Then there was Eddie Van Halen's guitar solo. Running a lengthy thirteen minutes, Eddie demonstrates just why he is one of the greatest guitar players of all time.

Although these highlights give this home video its attractiveness to Van Halen fans, the home video has nothing that has not been seen before.

The performances in *Right Here, Right Now* resemble the performances in Van Halen's last home video concert for their 5150 tour, *Live Without a Net*, which received rave reviews upon release.

Actually, the solos are even better played in this first home video, and

if you must have a concert home video of Van Halen, I highly recommend that you get the first one.


The *Live Without a Net* video is sure to give you your money's worth, while *Right Here, Right Now* simply continues the same idea.

If you absolutely have to have *Right Here, Right Now*, the home video, either get it on sale or wait a month or two for the price to go down, because it is definitely not worth its retail price of \$29.99.

**Although these highlights give this  
home video its attractiveness to Van  
Halen fans, the home video has nothing  
that has not been seen before.**

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**Revive with VIVARIN.**

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## Award

(continued from page B3)

Aircraft unit commented: "When you think about where the award was given — in the National Air and Space Museum — and the level of award recipients over the years, and the fact this was accomplished so early in the program — I think it's fantastic."

The record-setting flights were set by P-2, the second production C-17. Since then, another C-17, P-4, the fourth production aircraft, carried more than 160,000 pounds of Marine Corps equipment more than 2,400 nautical miles in a flight from California to Florida and on a return flight, demonstrating its operational capability.

To date, McDonnell Douglas has delivered six flying C-17s to the Air Force. The combined test fleet has amassed more than 1,100 hours on some 300 flights, and has begun missions system testing with parachute loads. Two of the aircraft are undergoing climatic and electromagnetic radiation testing at Eglin Air Force Base, Fla., and Patuxent River, Md., Naval Air Warfare Center.

The C-17 — with its unique ability to carry large, oversized equipment over intercontinental distances and land at small, forward airfields with runways as short as 3,000 feet — combines in one aircraft the best capabilities of the current airlifters.

## Changes

(continued from page B3)

States. Uncontrolled airspace will be designated as Class G.

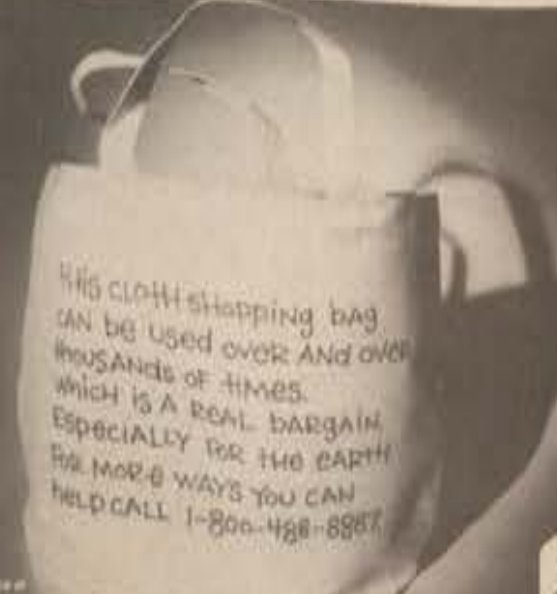
The new airspace will not present any problems for those who already understand the old system. Basically, it goes from the most restrictive airspace to the least restrictive airspace.

But, recognizing that there still might be problems with the new designations, the FAA has given the Aircraft Owners and Pilots Association (AOPA) approximately \$60,000 to produce a video to help explain the reclassification. AOPA has also developed posters and has seminars on the subject, as well. Fixed Base Operators (FBO) around the country also received posters from the FAA.

Various companies will be touring the country offering seminars in order to educate people specifically on airspace.

But, in my opinion, the easiest and cheapest way to learn about the new National Airspace System is just to get a copy of the Airmen's Information Manual and the Federal Aviation Regulations and sit down and read through it. You'll find that it is pretty straight forward and simple.

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# Green Jello challenges the assumption that bands have to write quality music

By Jaylin Billig  
Diversions Editor

Green Jello is one of those rare bands that completely refuse to be categorized. With the release of their soundtrack to the home video *Cereal Killer*, Green Jello proves just how removed you can be from the mainstream and still be marketable.

Forget everything you're used to. This band has nothing in common with anything else in the music world.

It does have a passing resemblance to the 1960's Frank Zappa, but that is very slight.

In Green Jello's videocassette *Cereal Killer*, which the soundtrack is from, the bizarre group puts on rubber costumes and acts out an outer-limits story about spaceships, cowgods, Shitman, and many other friendly next-door weirdoes.

This new accumulation of songs is just another chapter in Green Jello's history, which goes back as far as an appearance on *The Gong Show* in 1987. I'll let you figure out whether they were gonged or not. Surprisingly, Green Jello has been around for a decade.

The band has been around for over a decade, which is a tribute to the taste of today's audiences.

Some of the twisted music by them include "Three Little Pigs," which is a thrash metal sort of, new age kinda, maybe something else song; the video can be seen on MTV. Watch for it.

Other samples from the soundtrack are "Obey the Cowgod," "Rock-N-Roll Pumpkin," "Misadventures of Shitman," and other wholesome goodness.

The cover of the soundtrack



The band Green Jello dons latex costumes and a twisted sense of humor for the soundtrack to their claymation video *Cereal Killer*. In the back row: Cowgod, Marshall "Duh" Staxx, Shitman. In the front: Rock-n-Roll Pumpkinn, Sadistica and Pigs.

includes the remark, "Green Jello was the world's first video-only band until we released this 11-song soundtrack from the video album, *Cereal Killer*. Now we're liars as well as jerks who have no talent."

Green Jello stands firm in their view that they are a band with little or no redeeming value.

As Green Jello's Moronic Dictator (I'm not making this up) puts it, "When somebody comes up to us after a show and says, 'You

guys are great,' I do my best to convince them that we suck, because by saying that we are great they can ruin years and years of propaganda. Don't go spreading good rumors about us."

Although this band sounds too good to be true, it really is. In fact, Green Jello has several concert dates in Florida, where they will be performing music from the *Cereal Killer* soundtrack.

They will be playing in Orlando at the Visage May 9, in Ft. Lauderdale at The Edge on May 10, in Ybor City at the Ritz Theater on May 11, and in Jacksonville at the Milk Bar on May 12.

If you're up to a show that is sure to knock your socks off and make you eat them, go see Green Jello on one of these dates. I promise that it will change your life.

**"Green Jello was the world's first video-only band until we released this 11-song soundtrack from the video album *Cereal Killer*."**

## Critic's Corner:

# The Crush does just that at the local theatres this week



Mike McGrath  
Movie Critic

Then, as if things weren't going bad already, here comes the previews. They must have lasted ten minutes. Still tugging on my foot, I get prepared to see *The Crush*.

*The Crush* stars Cary Elwes as a writer who gets a job for a local magazine. He is new in town and he needs a place to stay. Fortunately, a rich family is putting their guest house up for rent. It is the perfect place, except for Darien, the teenage daughter played by Alicia Silverstone.

Darien develops a crush on the innocent writer. He is only innocent if nobody can read his mind. Elwes spends the rest of the film trying to escape from the evil clutches of wondergirl.

Silverstone does a wonderful job. She is smart, fourteen, beautiful, fourteen, talented, and fourteen. Basically, she is the easiest way to get a prison term.

The age thing would cause a problem with anyone. Well, my roommate might not care. But the point is, no normal person would feel comfortable in Elwes position. This is what the movie is all about. What would you do if you were in this situation? At this point of the movie, I am still trying to get the gum off. I have resorted to the sliding of the foot technique, as if this is going to work.

Let me get back to the movie. The plot was not very deep. In fact, the only interesting scenes involved Darien. Whenever she attempts to get even, look out. Okay, there were other interesting scenes, but she is only fourteen.

There weren't any spectacular stunts, nor were there any special effects. It didn't cost too much to produce this psychological thriller.

In fact, I can't think of too many

reasons to see this movie.

The ending is really unbelievable, too. If you have ever seen one of those movies where someone gets shot and flies fifty feet backward, this one is worse. There aren't any guns, but you'll see what I am talking about if you have the courage to actually see this one.

Now I really want the gum off my shoe. The seat in front of me feels like it moved back a foot. It is getting harder to move my foot. The gum is nearing the cement stage. You know the cement stage. You drink something cold while you are chewing gum and wham, hard gum.

Overall, the movie was quite disappointing. The only thing I liked about it was Alicia Silverstone. Oddly enough, she seemed perfect for the role. She was a princess one minute and a brat the next. If anything, she looked older than fourteen.

If you want to see a psychological thriller with a woman who already went through adolescence, try *Basic Instinct*.

If you want to see a poor thriller and you are fourteen, then *The Crush* is up your alley. Then again, you'll probably still want to see *Basic Instinct*.

If you just want to see a movie and are at the theater, notice how clean the floor is. My shoe picked up everything from popcorn to anvils.

**The Crush**

Starring: Cary Elwes  
Alicia Silverstone

Rated: R

Rating: ★★

Length: 1 hour, 30 minutes

Playing: Volusia Square 8

★★★★ - Can't miss!  
★★★ - Worth watching.  
★★ - Wait until dollar theatre.  
★ - Read a book instead.

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## Quarks

(continued from page B1)

At first the team concluded that the data was faulty. After an exhaustive analysis, the team still could not find the reason for the error.

On November 5, Schwitters "literally had one of these epiphanies that people talk about in science."

While standing at a bus stop, Dr. Schwitters realized that the data could be evidence for a new quark, a quark that could finally be "seen". Thus was born the charm quark and finally laid to rest any doubt about their existence.

The material in this article was gathered from the following sources, which can be found in the Jack R. Hunt Memorial Library:

The Discovery of Quarks, by Michael Riordan, Science, May 29, 1992.

The Frustration of a Quark Hunter, by Russel Rutherford, Scientific American, Sept. 1992.

Evidence for Colourful Quarks, by John Gribbin, New Scientist, Nov. 9, 1991.

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ΔΧ

By Chris Hildebrandt  
Public Relations

Well, this semester is just about over. Remember, it is never too late to try to bring up that bad grade that you are getting in that difficult class. I hope that everyone is happy with the officers that were elected last week. I am sure that they will do their best to keep Delta Chi the best. The canoe trip was a blast. Everybody got dinked several times and lost several refreshing beverages and smokes when they went under. Nine miles is quite a long trip in a canoe, especially when you are rowing! You get to that point where you ask yourself, "Are we there yet?" I

am sorry that I was unable to go due to my illness. I hope next year we will plan another one so that I will be able to go and enjoy the fun with all of you. Scholastic dinner went very well. Thanks to everyone that showed up. Especially thanks to Nike Lacatena and John Corson who slaved over a hot stove all day. You did an excellent job. Pledges, you did a good job too. Your help is much appreciated, considering you were required to be there. Pledges, remember to get your signatures soon, because time is quickly running out. Keep up the good work, and don't let your head disappear where the sun don't shine.

# Aerospace Society

By Joshua Mussaf  
Historian

The final meeting of the semester for the Embry-Riddle Aerospace Society will take place this evening at 7:00 p.m. in room E-611. We will be playing "Win, Lose, or Draw" for exciting prizes. Tonight will be your last chance, until the Fall semester, to purchase a club T-shirt. Stephanie will be sell-

ing them at a cost of \$6.00. A special belated thanks to all the club members who helped out with our car wash late last month. Your efforts helped raise over \$100 for our treasury. Our trip to Blue Springs last weekend was cancelled due to the lack of interest. The trip will be rescheduled for a later date in the Fall. Good luck on your exams and have a safe and fun summer!!!

# Army ROTC

By CDT. Jaye Howell  
Public Relations

A few of weeks ago, members of the Army War College came to visit the Embry-Riddle campus. They came to discuss the current issues facing the military and the U.S. Members of the panel were Col. Tom MacIver, Col. Berdy, Col. Mike Ward, Col. Larry Forester and Mark Wells. The first questions asked by the students were about relief to Somalia. The panel stated that U.S. was currently being driven by the media. As far as future policy, the

president had not announced his official position. The next group of questions were about letting homosexuals in the military. The panel said that homosexuals would only cause major problems in close confinement situations. The panel was then asked about females in combat, in which Mike Ward said that in the near future he would be surprised if there were no females flying the Air Forces top fighters. The discussion concluded with talk of our policy in Yugoslavia. Most of the panel agreed that we may be backing into another "Vietnam."

# Eagles Flight Team

By Melinda Matricolani  
Member

Despite having the biggest storm of the century and not having enough doughnuts for Ferg, the Eagles Flight Team is pushing on towards Nationals in April. The time is coming sooner than we expected, but we are prepared. Out of good times and hard work this semester, eighteen competitors of our fifty person team have shown their stuff - and now they get to show it in Texas!

This team is the biggest in our history and we are going to make the most of it. The competitors are: Keith Plumb, Roger Sultan, Rob Blizer, Evan Bogan, Brian Ferguson, Eric Quinn, Dave Arribas, Al Terry, Ed Stone, Mark Houser, Shannon Knightly, Mike Campbell, Gregg Delea, "Buzz" Nikolich, Ari Buchanan, Kellene Gaetaniello, Mark Ruane and Lee Babey. Congratulations to the whole team for a great effort this semester. Start your engines ladies and gentlemen - we're going to Texas!!!

# ΘΦΑ

By Kelly Watkins  
Public Relations

Well guys, I believe this will be the last article for the Spring. You won't have to decipher my unique sense of humor anymore. Awbb... (now you have to hear it in the meetings! ha!) Nadia will take over the Avion articles in the fall, and we are all confident she will continue to burst out of her shyness shell and show her true wild self. Seriously, I want to thank you for electing me as the next President of Theta Phi. It's a real honor, and I will do my best to create a great year. If I can do half as great a job as Erica, it will be a success. You'll have to bear with me for a while

until I figure out what the heck it is I'm supposed to do. So, I'm going to be pulling things out of my @\$\$ to see what will work and what won't. Some of the ideas may be green, but hey, some may be made of gold. But like I said, this is my sorority, but it is also your sorority. I want you to feel free to express your opinions and ideas to better it. We're all in this together! Congrats to other new officers and positions held. It takes all the sisters working together as a team to make things work! So, get PSYCHED!!! I would also like to say good-bye to our graduating seniors: Sarah, Kiersten, Stacie, Kellene, Melissa, Alicia, Jen and Robin. We'll miss you.



Members of Lambda Chi Alpha fraternity pose for one last group shot of the semester.

# ΛΧΑ

By Travis Logan  
Member

Waas up?!? Yes, back by popular demand, the Lambda Chi Alpha weekly information article is finally here. Since many of our chapter's activities have since passed, this article will serve as a recap of recent events. Starting back in March, the road rally was a success, with the winning team of Matt Miller, John Mulawa, Lenn Scholz and girlfriend Vicki checking in with barely a three minute lead. It was a long race, and casualties included two suspensions, one alignment and a broken windshield. Paint ball was a blast with the Paint Ball Club, and thanks to the High Epsilon the cost was minimal. The field in Orlando proved to be quite a battleground, we all had a great time. The weekend following was mini conclave, and one weekend not to forget! Besides the two tornadoes that obliterated our campsite, we had to be rescued by forest rangers with chainsaws and even a bulldozer! It was quite a relief to see the next morning to see that the Iota was really glad to see that we were all okay! The weekend afterward was the

formal and awards ceremony, followed by a car wash on Sunday. Now is April, a camping trip and canoe ride are planned for the weekend, to be followed by our community service adopt-a-highway project on Sunday. Well, that's the wrap-up for the past month, and as always, the weekly top ten list follows. See you next week. Top 10 Couples awards at Spring Formal. 10. Sonny and his mom. 9. Mr. and Mrs. Rodeo; T.J. and Patty 8. Mort "spotted" couple; J.D. and Christa 7. Voted most likely to uh, most likely to uh, likely to uh, to uh, uh...: Mickey and Given. 6. Best dancing couple: Eric and Michelle (and Jay, and Vinnie, and Joe, and Pelli...) 5. Prom king and queen: Marcus and Luanne 4. Voted most likely to: Jay and Christine 3. Voted most likely not to conceive: Dan and Chip 2. Shortest lasting couple (eh, Joe?): Chuck and Stephanie 1. Voted best looking couple by Brian Evans: O'Neal and Nadia.

### Clubs Policy

- ➔ All articles must be type-written, double spaced or on disk format (unformatted in Word Star or 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 copies.
- ➔ For more information stop by or call the Avion office at (904) 226-6049.

# Windsurfing-Sailing

By Bryan Rosko  
Treasurer

Hey everybody, the Embry-Riddle Windsurfing and Sailing Club wants you!!! It's not too late to get involved in the funnest club on campus. Did you know that it is "Learn how to sail or windsurf at Embry-Riddle month." Perhaps you've seen random people flying across the parking lots on Sunday afternoons - these people are skate-sailing. Wow, that's a long word. Can you say...SKATESAILING. If so, you have the ability to enjoy this exciting (and warm) sport. Unfortunately, the "Storm of the Century" took out our Hobie 16. We shall mourn its loss for many a day. By the way, if anyone has a bunch

of boats, or a hull to an old Hobie Cat, please donate them to us. We can pay you too. No, wait, we can't because nobody's paying their dues. (Hint.) Last weekend's party was a blur. I'd tell you about it if this article wasn't written two months ago. This coming weekend is a big picnic-barbeque-party-sailing/windsurfing clinic open to everybody and their mothers. If you are lazy enough to be reading this article for a club to which you don't even belong, then you are an automatic candidate to come down and have some fun. Sailing and Windsurfing with our remaining equipment is done at the Halifax Sailing Center on Beach St. Call Mark Severson at 226-7499 for rides or directions. See you there!

# Ninety Nines

By Jennifer Warren  
Vice President

Hey poker buffs! I must say that this year's Poker flight was a huge success. Thanks to Paul McDuffee for the airplanes, and also to Steve Dedabo, Jen Hagen, and Rob Papes for giving up some of your valuable time to participate; we couldn't have done it without you. We learned a whole new way to perform IFR, soft-field landings, and how to wake up the passenger in the back seat. Hey Erica, what ARE you going to do with that brandy warmer? Is everybody ready for the

Awards Dinner tomorrow? What do you mean, you haven't heard about it? We will be meeting at 1730 in front of the Library. From there, we'll car pool to the Fourth Fighter Group for an exciting dinner with gaturous and entertaining people. Feel free to bring a date, or a 49 and a half! Don't forget the meeting tonight at 1730 in room B516. Elections will be held, so start thinking about who you would like to see on the board next year. Congratulations to Pat Hatfield on her Private Pilot license, and to Erica Anderson on her CFI! Yeah!

# ΣΠ

By Tore Gudroed Markusson  
Deferred Member

First of all, I'd like to start out this article by saying, "Thanks a lot Carrier for passing on your cold to the rest of the chapter. Was she worth all this aggravation?" Secondly, I'd like to congratulate all the pledges that made it through their pledgeship and who are now tants. And for all those weasels out there...once a shiny-pin, always a shiny-pin in my book. The Orchid Ball is practically upon us. If you do not have a date by now, all hope is lost. The best you can hope to do is join in on the all-night poker action in Brother Egghead's room. For our graduating seniors, twenty-five days to go! Let's make this years pig roast a "teeth gritting, gut wrenching, rip the towel rack off the wall" good time! On a sad note, since a new Herald has been elected, by last article. Just like Pan Am, all good things must eventually come to an end. I hope

the articles were fun to read, as I had fun writing them. With that I leave you with the following puzzle. Can you find what brother did the following actions at the past weeks camping trip? (Although there maybe one brother that could account for all the following, please choose only one brother per statement) A. Attempted to drive vehicle through lake while in stupor. B. Intentionally un-avoided running over family of opossums. C. After popping an Old-Mil said, "It doesn't get any better." D. Forgot his jar of change at home for poker game. E. Hated meeting "H-master" for their first time! F. Threatened to show slides of himself, again, if he did not get to sleep in a tent. G. Made his famous Apple Fritter. H. Enjoyed becoming one again with his fish. I. Let his battery run dead while listening to his car stereo.



Shaun Garvey prior to eating dirt. Garvey claims that crashing is half the fun. Any trip without significant skin loss is a thorough waste of time according to him.

# Stump Jumpers

By Wayne Newby  
Public Relations

Embry Riddle students interested in mountain biking will be psyched to know that fellow enthusiasts are forming a club called The Embry Riddle Stump Jumpers. Who is this club for? Anyone, of any gender or skill level is welcome. It doesn't matter if you have a Huffy or a Harrow. Membership is on a yearly basis (Fall, Spring, Summer A+B). Dues collected will be used to cover trip expenses, T-shirts, water bottles and more. Members will also enjoy special benefits at a local bike shop. The Stump Jumpers will be going on weekend trips to Brooksville, which is 60 acres of hard core technical washland located 2 hours West of Daytona and Ocala, a fast hard

packed course 45 minutes from Brooksville. Both areas have camping facilities which club members will be taking advantage of on weekend trips. These trips will occur on a monthly basis. The Stump Jumpers will also have the option to attend NORBA (National Off Road Bicycle Association) races on a monthly basis. Members will also be made aware of any events in central Florida. Meetings will be held on campus weekly. Executive board member Shaun Garvey says, "come join us, you will mash like never before, and yes Florida does have hills." P.S. all club sponsored rides require the presence of a skid lid. Interested people may contact Shaun and Barry at 257-1412, Charlie at 788-5466 or Craig at 322 2740.

# AHP

By Jason Piper  
Historian

Greetings Brothers and friends of AHP. As most of you know we had our ritual dinner this past Saturday. A big round of applause to Sam Greco for planning that. The night went very well. Saturday morning we initiated three new brothers, Mark Skelly, Ron Barber and Ray Tuller. Congratulations guys, you wont regret it I promise. Many alumni attended the dinner which was on the top floor of Treasure Island Inn. Everyone had to brave the ridiculous traffic to get there. Some of the alumni who were in town were Paul Hromantic, Stan Beck, Mike Shaw, Pat Averssa, Mitch Williams, Fran Clemente, Jeff Jones, Ken Bracket,

# Have a happy and safe spring break pause!!!



Calvin and Hobbes

by Bill Waterson

LAUGH! THE PEANUT BUTTER IS RUINED!

YOU'RE SUPPOSED TO SCOOP ONE HALF STRAIGHT DOWN AND THEN DIG OUT THE OTHER SIDE FROM THE BOTTOM, SO PART OF THE TOP REMAINS UNDISTURBED UNTIL THE VERY END!

WHAT ON EARTH FOR?

IT'S A RITUAL! YOU HAVE TO KEEP THE TOP OF THE PEANUT BUTTER SMOOTH!

MAYBE YOU SHOULD MAKE YOUR OWN SANDWICHES!

IF YOU CAN'T CONTROL YOUR PEANUT BUTTER, YOU CAN'T EXPECT TO CONTROL YOUR LIFE. DID YOU CUT THE BREAD DIAGONALLY?

AAUGH! AAUGH! SOMETHING'S CRAWLING DOWN MY LEG! GET IT OUT!

OH, IT'S JUST A COUPLE OF PENNIES. I'VE GOT A HOLE IN MY POCKET. \*YUW\*

YOU NEVER KNOW WHEN SOME CRAZED RESIDENT WITH COLD FEET MIGHT BE RUNNING LOOSE IN YOUR PANTS.

ANOTHER REASON NOT TO WEAR 'EM.

DO YOU THINK BABIES ARE BORN SINFUL? THAT THEY COME INTO THE WORLD AS SINNERS?

NO, I THINK THEY'RE JUST QUICK STUDIES.

WHENEVER YOU DISCUSS CERTAIN THINGS WITH ANIMALS, YOU GET INSULTED.

THE TV LISTINGS SAY THIS MOVIE HAS "ADULT SITUATIONS." WHAT ARE ADULT SITUATIONS?

PROBABLY THINGS LIKE GOING TO WORK, PAYING BILLS AND TAXES, TAKING RESPONSIBILITIES...

NOW, THEY DON'T KID AROUND WHEN THEY SAY "FOR MATURE AUDIENCES."

I'VE NEVER UNDERSTOOD HOW THOSE MOVIES MAKE ANY MONEY.

Far Side

by Gary Larson

This is it, kids... The mouth.

Hey, who's that? ... Oh — Mitch, the janitor. Well, our first test run has just gotten a little more interesting.

THE TREE THE DOOR THE HOUSE

SHIRT PANTS THE CAT THE DOG

Now! ... That should clear up a few things around here.

BANG WHANG CLANG

ZANG PANG BLANG

WILL YOU STOP THAT ANGRY RACKET? YOU'RE DRIVING ME CRAZY!

AND A CHECK MARK FOR TUESDAY!

MISS WORMWOOD?

YES, CALVIN?

MY GENERATION DOESN'T ABSORB INFORMATION THIS WAY. COULD YOU REDUCE EVERYTHING TO FACTOIDS?

TURN TO PAGE 21, CLASS.

AT LEAST OUR TELEVISIONS UNDERSTAND US.

Hot off the press, the very first edition of the Desert Island Times caused the newspaper to quickly fold.

Scene from "Dr. Jekyll and Mr. Ed"

Dave

by David Miller

HEY, JOEY, WHAT DO THEY SAY? — THE BEST PART OF FIGHTING WITH YOUR GIRLFRIEND IS...

MAKING UP!

OH! I THOUGHT IT WAS THIS PART!

I FIND IT DIFFICULT TO BELIEVE THAT THE PRESIDENT OF THE UNITED STATES IS ACTUALLY YOUNGER THAN ME!

HEY, I CAN'T BELIEVE HE GOES JOGGING MORE THAN I DO!

YEAH, BUT WHAT REALLY FRIGHTENS ME IS — HE EATS AT McDONALD'S MORE THAN I DO!

DAVE, DAVE, DAVID, I CAN BARELY HEAR YOU!

ARE YOU ON THE SPEAKERPHONE?!

WELL, I'LL BE DARNED, YOU'RE RIGHT, DARLA. — I AM!

Bound and Gagged

by Dana Summers

I.D. REQUIRED

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PRESTO MAGIC COFFEE

STUDIO

NOW PLAYING KING KONG

MR. KING



→ Autos for sale

Buying a vehicle? Buy from a Riddle Alumni. New and used cars and trucks/Program cars. Contact Mark P. Morano at Gary Yeoman's Ford executive car sales. 947-4455. Bring this ad!

1991 Burgundy Chevrolet Camaro for sale. 6 cylinders, 2 dr, automatic, PS/PB, air bag, AC, anti-theft system, cruise control. Brand new, only 5,905 miles, \$11,000 full price. Will consider trade-in for an excellent condition 4 cylinder, auto, AC, 1988 model and above. Call Mary at 788-0751.

Yamaha 1985 Riva Scooter 125. Red, includes windshield, trunk, saddlebags, and 2 helmets. In good condition and very reliable. Must sell! \$600 obo. Call Steve 248-0049.

For sale 1978 Chevy Lav. Pickup new paint, new tires, runs good in excellent condition. \$1600 tel. 904-255-8363.

For Sale: 1983 Nissan King Cab 4X4 Pickup. 4 cyl, 5 speed, factory sunroof, chrome trim w/ mud flaps, bed liner, good condition, runs excellent. \$3400. Contact Russ @ 322-2732.

For sale: '71 Chevy Malibu 4 dr. 307/auto (711 350) Holly 4 spd. Carb. Body in poor condition but runs fine. Clean Florida Title. \$400 ask for Matt @ 322-2710.

Buick Skylark, 4 door, automatic, 86 k miles, blue, runs great, ice cold AC. Asking \$1500 obo, call ARNAR @ 257-4762 or leave a message.

Honda CRX Si. Black, 5 speed, new tires, Alpine Stereo/Cassette, new clutch, 100 k miles, AC needs work. \$3200 call Dave @ 760-2075. Trades for VW Bus and cash considered.

88 Merc. Tracer Wagon A/T, A/C, Cassette, Cruise, Inter wipers, Alum. Wheels! New tires, 30 mpg, 60,000 miles! 1-owner, complete main. record. \$3900. Call Steve at 226-6689 or 673-1607 (after 6).

→ Roommates

For sale, 8 room house, 4+1/2 baths. Double garage with 1/2 bath. City of Daytona Beach. 1+1/2 miles from campus - Furnished - Big corner on Mainland. Two century old oak trees. Call evenings 258-3901.

For rent. Furnished room with bath in a big beautiful historic house near Marina. 1+1/2 miles from campus for a clean nice quiet gentleman. Non-smoker, sober. Also, foreign students accepted. \$300 a month, no utilities to pay, no lease. Lots of parking, lighted at night. Very private - Call evenings 258-3901.

Room for rent. Private entrance and bathroom. 2+1/2 miles from campus. \$225/mo. includes: Rent, utilities, water, cable, pool, guard dog. Ask for Chad at 252-2277.

Female roommate needed for Fall 93/Spring 94. 3 bedroom apartment. Pay 1/3 rent, 1/3 electric, 1/3 phone. 2 pools and tennis courts. 8 miles from ERAU. Call Kris at 253-9656 ASAP.

Large 3-bedroom home. All newly remodeled. All new carpet, paint, kitchen and deck. Country setting on cul de sac. Furniture and utilities available. \$700. 676-9100.

For rent. Furnished, cozy and clean. Bedroom, balcony off large living room, surprises, AC and ceiling fans, set in kitchen, tiled bathroom, attic for storage, water, sewer and pest control included. \$175/month. 254-0754.

House to share. New quiet Port Orange neighborhood. Full furnished, washer dryer, micro, cable TV, Central Air. 8 minutes to school. \$235 per month + 1/3 utilities. Paul 756-0419 or 788-8870.

House to share. Port Orange Area. \$200 per month plus \$100 sec. dep. 761-1834 evns. or leave message for Barbara.

Roommate needed! Summer A+B. Spacious 1 bedroom, full-furnished, free water and cable, cheap! \$160/month + 1/2 electric and phone. Call 258-9413.

Roommates needed for summer. Master bedroom available April 22. Second bedroom available around the end of May. Pool, tennis, 2 miles from ERAU. \$225 and \$300. Chris or Pete 248-2962.

1 or 2 roommates needed to share 3 bedroom, 2 bath apartment for summer A+B. Male or female. Contact Bryan at 226-7310 or box 8555.

For sale or rent. 2 bed/2 bath townhouse. Two levels, full appliances. Pool, cable TV, water and trash removal all included. Located only 2.5 miles from ERAU. Call Today for more details 788-4343.

Roommate wanted for townhouse fall and spring. 3 bedrooms, 2 bath, \$206.55 + utilities. Male or female. Call 761-3174.

Roommate wanted for Summer A (May and June). 10 minutes from ERAU off Williamson Blvd. Spacious room w/ walk-in closet and connecting bathroom. \$280 month and 1/3 utilities. Call 274-1086 in evenings.

Roommate needed. Male/female. 1.5 miles from school, Nova Glen Apartments. \$240/month and 1/2 utilities for Summer A and B. Contact Hector Vasquez, Box 2572.

Roommate wanted. Female and male to share very nice 3 bedroom house 10 min. from ERAU in nice, quiet neighborhood. Includes washer, dryer, cable AC, dishwasher and own room. Available April 30th. Must be clean. \$350/month. Util. included except phone. Dennis 788-8276.

Roommate needed Summer A and B. M/F to share 2 bedroom house in Southwinds neighborhood. Rent is \$185/mo. + 1/3 utilities. Home includes washer/dryer, dishwasher, microwave, VCR, pool. Call JR or Scott @ 767-1308.

Room available after finals, \$152 per month plus 1/3 utilities. For more info contact Cliff, Frank, or Dan at 258-5852.

Room of your own. \$162.50 + 1/4 util. 4 bedrooms/2 bath house. 2 car garage. Pets O.K. Semi-furnished. David 322-0882 leave message.

→ For sale

For sale! Beautiful Leather FZR Jacket. Red, white and black. Too small for me. Only used about 5 times. Paid \$450. Will sacrifice \$325. Ron 252-5543.

Get an older VW? Learn how to do it right! Hot VW's magazine collection. 100's of how to and tech articles. Most issues \$5 to present \$25 all. Jerry 756-7965, or box 6595.

Sherwood single CD player w/remote \$75. Harmon Kardon Cassette deck \$100 Both for \$150, like new. Jerry 756-7965 or box 6595.

Sailboat \$200. 12' Karma, excellent beginner's boat. 16' 1-piece composite just adjustable clamp-on boom. 2 sails: 5 meter starter and 7 meter speed w/bag. Jerry 756-7965 or box 6595.

NEON LIGHTS. Wide variety of colors. Will install in and/or under your automobile. Low price! Limited amount. Call Dwayne 226-7492. Kshion 255-6379.

DOWNTOWN USED FURNITURE. 9000 sq. ft. Showroom Tues. - Sat. 10-5-30 406 N. Beach St. Daytona. 239-9884. Buy and Sell.

Living room set with sofa bed, like new, \$225. Dining room set, table with four chairs, very good condition. \$125. King size water bed with headboard, very good condition, \$200. Call Mary @ 788-0751.

For sale: Guitar Washburn G-3V w/amp and Ace. \$350. Waterski redline velocity \$350. Call 767-4806.

Stairmaster - Barely used (have cheese to prove it). A steal at \$80. \$130 new, has electronic timer and progress monitor, plus variable difficulty settings. Just do it. 255-5019.

For sale. Queensize waterbed with matching dresser, nightstand \$225. Must see to appreciate! 255-5019.

Furniture for sale: Contemporary sofa \$30. Base Lounger Recliner \$90. 258-3725.

Weight bench - heavy duty, curl attachment, weights. \$100. 258-3725 leave message.

Graduation sale: Southern Bell Brigs trimline phone \$20, Roable manual w/software \$10, TV/VCR entertainment center \$10, Woodgrain table w/leaf, 4 chairs, chairs \$25. Sleeping bag \$5. Call Dave at 760-2075 or leave message.

Graduation sale: Panasonic Stereo Cassette portable \$30, Round poppin chair \$10, toaster \$5. Electric can opener \$5, Digital 10 cup coffee maker \$5. Call Dave at 760-2075 or leave message.

DIGITAL TACHOMETERS, hand-held. Touch to rotating object (like propeller spinner), it tells you exact RPM's. Brand new, lot \$215, want \$75 each, have three. 672-7371 days.

Buy my CD player for only 49 bucks! It's a home system. Call Ed 788-8797.

Super Nintendo Entertainment system for sale. Includes 2 controllers, Street Fighter II and Super Starwars. All for \$150. Contact Bob at box 6933.

Moving sale: Matching tan couch, loveseat and chair. Must condition; table, make offer. Brent at 248-0297.

Foran 5.1. Full package, IBM comp. Quickie graphics, advanced environment. Easier than Sun Lab and more convenient. Very cheap price. Comp-Sci and All students take notice!! Will sell quick. 257-1412.

Moving sale: 3 piece dinette \$90; tan couch \$50; poppin couch w/cushion \$80; rattan rocker chair w/cushion \$60; brass and wood end table \$30; ceiling fan \$20; obo's. Call Kris 274-2336.

Moving sale: TV table brass and wood \$30; 4-piece place set, dishes, pans, silverware, glasses \$50; New Regina vacuum \$60; swivel chair for stools (2) \$40; obo's. Call Kris 274-2336.

Winchester 1400, 12 ga. automatic w/ 18" barrel and pistol grip. Blast 'em for a mere \$200. 788-4972.

For sale Nintendo (8 games included) \$100, RC Car \$30, 6'4" Surfboard w/ roof rack \$95; 30 gal. Octagon fish tank many extras \$150. Call Chris 255-3126.

CLASSIFIED AD POLICY

- Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.
- Commercial advertising is available through the Avion advertising department, at 226-6051.
- 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.

Two size bed, very good condition, \$25 obo., fureka vacuum cleaner, \$25 obo., Stereo system, with two speakers, \$25 obo. Call Mary @ 788-0751.

Word processor, Brother 3.5" Disk drive. New in box, \$290. Also typewriter \$25. 258-3725.

Stereo equipment: home stereo rack system. 2X120 watt 12" speakers. \$175 obo. Also Pyle 400 watt Car stereo amp \$200 obo. 258-3725.

Gun for sale. Rem Smith and Wesson .44 Magnum (1 of 300 mch) 3" barrel, round butt, sacrifice \$325/boos, 258-3725.

1 week cruise vacation for two only \$300. Includes: 2 nights at Westin Hotel in Ft. Lauderdale, Cruise to Bahamas w/3 day stay. Meals. Open dated tickets for one year. Contact Rich. 253-6065.

Full size waterbed for sale. Good condition, must sell \$100. Contact Cindy @ 238-6429. Leave message.

Munciana: Alexn Midivah III \$200. Excellent reversal unit; great price. Contact Jeff 258-0886.

Pyle driver audio speaker system with cosmic 120 watt amp includes 2 tweeters, 2 midranges, 2 subwoofers, amp, and homemade crossover system. Over \$600 in speakers alone. Will sacrifice for \$300. Contact Jeff 258-0886.

Waterbed. Queen size, semi-waveless, black neoprene frame and headboard. Like new. \$100 obo. Michael @ 756-6552 or box D-216.

Car audio equipment at discount prices!! Pyle, JVC, CRUNCH and more. Give yourself the best for less. Call (904) 426-7273 for more info.

Couch \$75. Kitchen table and 4 chairs \$75; Desk \$20, Dresser \$25 obo. Contact me at Box 8878 or call 253-7988.

→ Miscellaneous

I'm going to Athens, Ohio after finals for about a week. Then back to Daytona in time for Summer A. If you need a ride up or back, give me a call. 252-5543. Ask for Ron.

Wanted back issues of Kitplanes magazine. Don't throw them out. Give (or sell) them to me. Contact Michael @ 756-6552 or box D-216.

For your auto diagnosis and repairs, call Patrick 255-2132. ASE certified technician. Lv msg.

ATTENTION SENIORS! Free Resume consultations this week. 8 am to 2 pm. Wednesday thru Sunday. Nova Rd. flea market, space A19. Lowest rates! 322-2828.

Students interested in buying used computers call Marc at 248-0827. Group purchase opportunity.

Lost. Brown trifold wallet. Had approximately \$120 and many ID's with the name Richard Ford. Please return Pilot license and medical cert. in it. Return to Box 5576.

Storage for summer! Anyone interested in splitting cost of storage for the summer. I have an apartment near campus. Store anything. Call Steve, 238-7226.

Let's Go SCUBA Diving. No excuses. \$59.95/ERAU only. No gear, no experience, no transportation necessary. We include everything in your intro, dive to 25' to 40' in one of Florida's Natural Springs. We pick-up. PADI 295-1555. Call today. Instruction all levels available).

Quality SCUBA Certification. Experienced Independent PADI Instructor. Open water \$100. Safe air NITROX and advanced training. Call Jan Neal at 761-2021.

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Experience the #1 adrenaline sport in the world. Skydiving. Call 788-4972 today and ask about special student rates. Blue skies are waiting for you...

Learn to fly tailwheel in the Piper Super Cub at \$50 an hour including instructor. Private, commercial, BFR training also available. Call Jim at 760-1630.

Do you need a ride to Tennessee or somewhere along the way? Will leave 23-24 April. Share gas. Lots of room. Possible return 25-26 Aug. Call 756-8941 or box 5694.

ERAU/Charleston S. Carolina student would like to pledge sorority. Send info to Denise Raggianni. Box 61389 N. Charleston S. Carolina 29419.

If anybody is interested in Playing Ice Hockey next fall please contact Glenn at Box 8382. Requirements are full gear and "AA" or "AAA" experience only. Thanks.

→ Personals

APD Congrat's on your move to success!! Now take what you have to better yourselves and those around you! Have fun this weekend. Luv - G.T.B.

Hi Chichi Lindo, Te amo, mi piloto! It's been 6 months since open eyes met! Can you believe it? Te quiero much! Words can't express the feelings that I have for you. So I guess I will show you again!!!! Feliz aniversario!!! Love always, Your C.P.W. (Hoover)!

Ms. Maryland, The other night was amazing. You really make me wish I could stay for the summer. Someone was a fool to let go of such a wonderful person! I truly mean it. Mr. Chicago

Rob: Come back home, we miss you! The white house staff

Paul and Brett: The only thing you'll ever take over is a donut shop! You don't want a civil war. Dave -Capt.

Miss Jeanette, You've definitely got my attention. Hope to see you around. The gentleman without a name

Practice!! Only 13 days to Texas! Win #2 Comin' up... Win Texas!! (Jub)

The fighting five are still coming through strong. Charlie Flight

Nice try Bravo! Mr. Trover, you owe me ms. One of the fighting five.

Charlie Flight, Let's see some more motivation.

To Eric, Jim, Kevin (3-toed tree sloth): What's up with you guys? You suck. Take some lessons from "the Pose" 1-900-THE-POSS!

Johnny, Only "Comme Bastards" drive little, red foreign cars. Prayz

Howard Stern is God!

Congratulations to Aisvelyste and Mr. K for their upcoming nuptials.

IAIN, I miss you and can't wait to see you. Love Danette

Who the hell is ZEE? The teal and black attack!!

Squadron One, You may be ahead of us in points, but all the work that we have done will prove that we will come shining through! Squadron Two

Dear Steve, The landscaping on the East side of the AMT building looks like Hell! It has been in this condition for the entire year that I have been going to school here. AMT Dirt bags (?)

Dear Delta Delta Beta Beta Tau and Club, Why can't you people get a life outside of school? Why can't you make friends without paying for them? What's up with those corny names, like "Walrus" and "Fuzz-man"? Victor Sheldon

Melissa, Is it a boy? No, it can't be. It is! Anyway, I had a great time, we'll definitely have to do Italian next time. Can't wait! A new friend

Quinn, Thanks for Thursday. You're the best! Mel

Man C., You're welcome (Ha Ha) thanks for being you. M.M.

R. Sultan, So you think I'm a non-eater? Can we discuss this over dinner? Flygirl 7390

Win Texas!

Beth, I love you. Christian Sarna

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For those who have completed FA 300 or higher, and need open elective credit. These courses are similar to the safety and basic courses, but include additional training in tailwheel aircraft operations utilizing both the CAP 10 B and the PA-11 Cub.

**THIS IS NOT A RIDE!**

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