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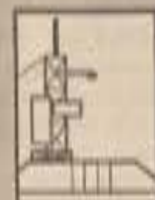
SPACE TECHNOLOGY

Orbiter Update



Columbia (OV-102)

The Space Shuttle *Columbia* is sitting on Launch Pad 39B with the Rotating Service Structure in place around the orbiter. Countdown for STS-58 began Monday with work centering on the Spacelab Life Sciences-2 module. Launch is slated for 10:53 a.m. tomorrow morning, weather permitting.



Endeavour (OV-105)

The orbiter *Endeavour* is in the OPF bay 1 where technicians are checking the payload electrical circuits and the orbiter aft engine compartment. *Endeavour* is scheduled to launch in early December on STS-61 to retrieve and service the Hubble Space Telescope.



Discovery (OV-103)

Discovery is currently in the OPF bay 3 where technicians are inspecting the Auxiliary Power Units, removing one main landing gear and servicing the waste management system. *Discovery* is scheduled to launch again in mid-January with the Wake Shield Facility and Spacelab-2.



Atlantis (OV-104)

The Space Shuttle *Atlantis* is still undergoing modifications and refitting at the Rockwell International Plant in Palmdale, California. *Atlantis* is the last orbiter to receive the overhaul, which will allow for longer missions and landings assisted by a drag chute. *Atlantis* is scheduled to launch in April of 1994.



Discovery returns with small hole

➤ Faulty wiring blamed for potentially dangerous explosion.

By Brian Gamage
 Space Technology Editor

After the Space Shuttle *Discovery* returned from its most recent mission, technicians inspecting the cargo bay noticed a hole that was not supposed to be there.

During the deployment of a Martin Marietta-built communications satellite, shrapnel from a ring that holds the satellite in the cargo bay collar punctured the rear bay wall.

The small hole was aliced in the wall that separates the cargo bay from the engine compartment, which houses hydraulic lines and fuel tanks vital to the safe operation of the

space shuttle both in orbit and during landing. No damage was found in the engine compartment.

The satellite is supposed to be released by a small explosive that fractures the fastener ring allowing the satellite to float away from the orbiter.

The release system has both a primary and a backup explosive and, during this particular deployment, both were detonated simultaneously.

The National Aeronautics and Space Administration (NASA) has appointed a team of managers to determine whether the wiring responsible for the detonations was done using outdated blueprints or whether the design itself is in need of revision.

Torn insulation blankets, dented cable housings and chipped paint are among some of the other reported damage from the explosions.

According to NASA spokesperson Lisa Malone, "All of the damage can be repaired and replaced with no impact on the next shuttle mission."



During the deployment of a communications satellite from Space Shuttle *Discovery's* cargo bay, a camera captured the image of shrapnel (above the cargo collar and to the left of the satellite) floating away.

Rats will come back to Earth headless

By Heather Young
 Staff Reporter

The most recent flight of the Space Shuttle *Columbia* was a new first for NASA — the first decapitation of laboratory rats in space. The fact that these rats will be killed while in orbit is a fact that NASA probably wishes would go somewhat unnoticed.

Animal rights activists have been in an uproar

about this experiment. NASA has also received letters from the general public in protest of the experiment. The practice of killing laboratory rats is an accepted and vital part of current high technology medical research.

The experiment was designed to test and study the effects of weightlessness on muscle and bone tissue. On Earth, the load (the gravitational force on the body) imposed on bones in growing animals causes mass and strength to increase simultaneously. But in space, the strength of the bone

does not increase along with the mass. The experiment's purpose is to record the early changes in both weight and non-weight bearing bone tissues in lab rats. The in-orbit findings are then going to be analyzed to determine a correlation with the calcium produced by their bones.

Samples of blood and muscle tissue are to be taken in space and frozen to preserve the effects before they are exposed to gravity when the

see Rats, on page B7

Students offered research semester

ORISE Press Release

If you are a sophomore, junior, or senior studying computer science, engineering, or physics the Science and Engineering Research Semester (SERS) offer you the unique opportunity to do hands-on research with some of the nation's top scientists at one of seven national research labs during the academic year.

The U.S. Department of Energy (DOE) is sponsoring the program to encourage undergraduate students to continue their studies in science and engineering.

Some of the participating laboratories include Argonne, located outside Chicago; Los Alamos National Laboratory, in New Mexico; and Oak Ridge National Laboratory, located in Tennessee.

Participants become members of research teams engaged in long-range, intensive investigations at these outstanding facilities. Fields of study include artificial intelligence, earth and space sciences, nuclear physics, waste technology and many others.

SERS also includes an educational enrichment component. Students are encouraged to enroll in a course in a nearby university and to arrange for the granting of academic credit by their home institutions for the research semester.

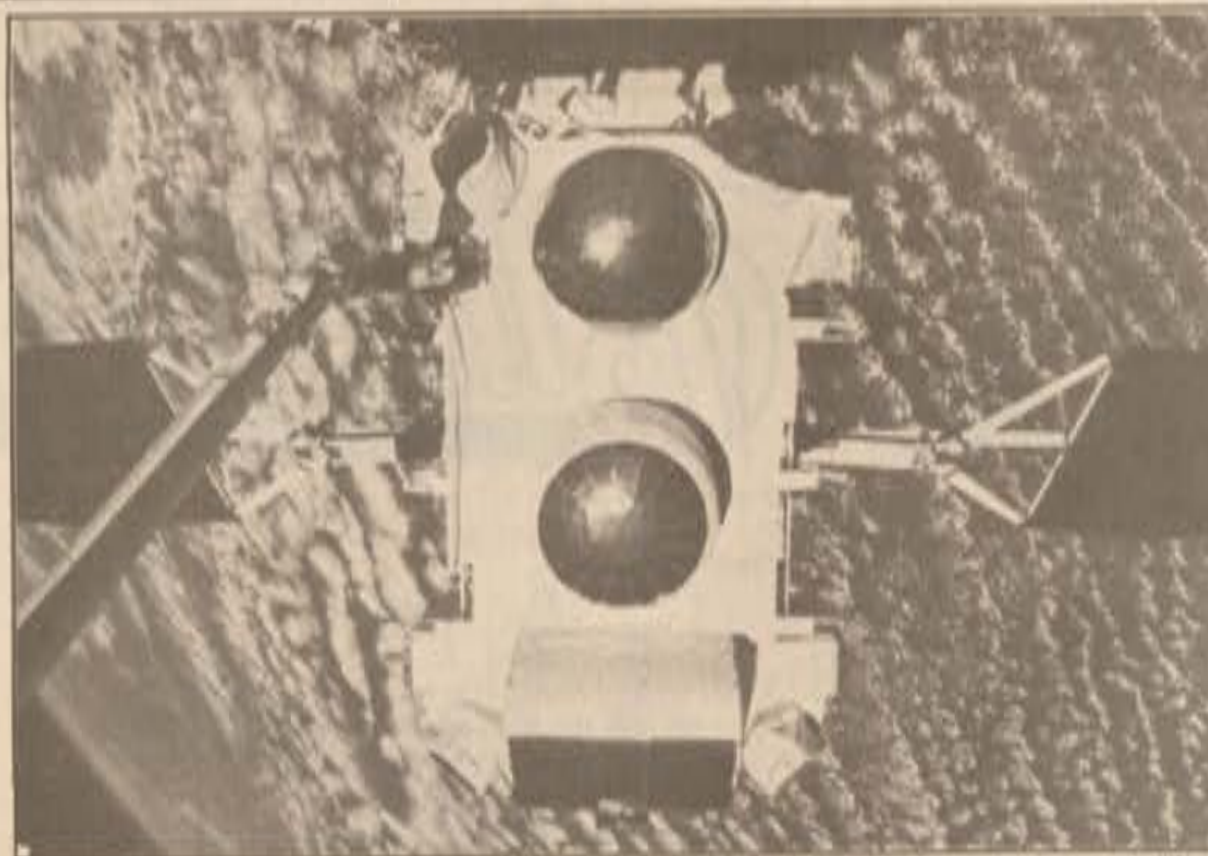
To be eligible for participation in SERS, students must have completed the sophomore year at an accredited U.S. community college or four-year college or university.

Applicants must be U.S. citizens or permanent resident aliens interested in pursuing a degree in the sciences. Guidelines suggest an overall grade point average of 3.0 or higher.

While in the program, SERS participants will receive a weekly stipend of \$225 per week, housing and travel reimbursement for one round trip to the appointment site.

For more information on the SERS program, contact: Science and Engineering Research Semester, 901 D Street, SW, Suite 201 A; Washington, DC 20024.

The application deadline for the 1194 fall term is March 15, 1994.



The Gamma Ray Observatory (GRO) is still in the grasp of shuttle *Atlantis'* remote manipulator arm when this picture was taken on April 7, 1991. GRO is currently receiving an orbit boost, which will extend its lifetime and provide scientists with more valuable data on the high energy events in the universe.

NASA boosts Gamma Ray Observatory to higher orbit

➤ Since April of 1990 the research satellite has been slowly falling towards Earth.

By Joshua Mussaf
 Managing Editor

Orbiting at an altitude of 217 miles above the Earth's surface, NASA's Compton Gamma-Ray Observatory is in the middle of a reboost to prevent the spacecraft from reentering the atmosphere.

The observatory will be nudged to the higher orbit in two phases using computer commands sent to onboard rocket thrusters from NASA's Goddard Space Flight Center, Greenbelt, MD., which manages the spacecraft.

"The reboost is necessary to compensate for orbit decay, which is the result of solar activity slowly pushing the satellite toward Earth over a

period of time," said Goddard's Tom LaVigna, the former Deputy Project Manager for the observatory who has retained management responsibility for the reboost. "This was a known occurrence and was a known occurrence and was taken into consideration in the design of the observatory."

The first phase of the reboost was scheduled to start October 4 and last until the 17th; the second from November 22 until December 3, LaVigna said. The first phase will lift the 2-year-old satellite to 280 miles at its apogee or highest point in orbit. The second phase will circularize the orbit by boosting the spacecraft's perigee, or lowest point, to the same elevation.

As of late September, the spacecraft was 217 miles above the Earth in an orbit that follows the equator. Below 180 miles, the satellite could lose the stability required for reboost, LaVigna said. If the observatory was not reboosted, he said, it would reach that altitude in late April of 1994.

The October-November reboost will follow an attempt that began

June 15 but was terminated the same day because of a problem with one of the thrusters on the satellite. NASA officials discovered that the B2 attitude control thruster was performing well below the other thrusters on the "B" side of the observatory, making it difficult to properly control the spacecraft. While the B2 thruster's performance remains low, it has been taken into account for the reboost.

"Extensive analysis and simulations have been performed to develop the plan for reboost," LaVigna said.

The observatory has eight attitude control thrusters and four larger orbit adjust thrusters, with half of each split between the "a" and "b" sides of the spacecraft. The B-side attitude control and orbit adjust thrusters will be used for both phases of the reboost. During the previous reboost attempt, only the attitude control thrusters were planned for use.

Science operations on the observatory will be suspended only

see Observatory, on page B7

Delta Clipper makes third successful flight

McDonnell Douglas Press Release

LAS CRUCES, N.M. — The Delta Clipper Experimental (DC-X) completed its third consecutive flight at the White Sands Missile Range two weeks ago.

The DC-X engines were started at 10:28 a.m. MDT following a smooth pre-flight checkout. The vehicle transitioned to its autonomously commanded launch and flight mode 3.56 seconds later, at which time the engines were commanded to throttle up from 30 percent to 80 percent thrust.

Approximately one second later a deviation in thrust buildup, lasting three to four seconds, was experienced, which resulted in the vehicle staying in the vicinity of the launch stand longer than planned.

The on-board flight control system automatically adjusted for this deviation and the four engines then ramped up to approximately 95 percent thrust to make up for the time delay.

The vehicle then proceeded to follow its pre-planned flight program.

The DC-X reached a height of 1,200 feet on time and moved laterally in a straight line 350 feet.

Descending vertically, the vehicle touched down on its landing pad within approximately two feet of the touchdown location of the two prior successful DC-X flights.

The entire flight sequence lasted 72.2 seconds.

Investigations are continuing into the cause of the thrust buildup deviation.

"The DC-X system continues to show its operability, supportability and robustness, which has enabled us to achieve multiple successful flight tests," commented Paul Klevan, McDonnell Douglas DC-X program manager.

"We now plan to expose the DC-X to even more extreme dynamic pressures and angle of attack maneuvers in a program to expand the vehicle's flight envelope," he said.

The DC-X tests at the White Sands Missile Range are designed to demonstrate that a rocket-powered reusable launch vehicle can be operated and maintained in a manner similar to an aircraft.

Female cosmonaut to speak at ERAU

By Brian Gamage
 Space Technology Editor

One of the few women to serve as a cosmonaut in the Russian astronaut corp will be speaking here at Embry-Riddle tomorrow night.

Vera Maiorova, affectionately called "Vika" by her Russian colleagues, will be addressing members of the Embry-Riddle Future Space Explorers and Developers Society (ERFSEDS) in the Atrium of Spruance Hall on Thursday, Oct. 14, at 7:00 p.m.

All students who have an interest

in the space program are encouraged to attend the activity.

Vika will be accompanied by Mikhail "Misha" Baskov, a Russian engineer who recently graduated from Moscow Bauman State Technical University.

Misha's graduate work includes the Russian Mars Mission and calculations for a Martian orbital space station.

Both Vika and Misha are heavily involved in the aerospace education programs in their country, including joint ventures and exchanges with U.S. students and organizations.

Vera "Vika" Maiorova

Missions: Selected to Russian cosmonaut team, ready to fly to Mir space station.

Education: Bauman University, Moscow, majored in Space Vehicles manufacturing.

Special Projects: Director of Youth Space Center, Russian equivalent of U.S. Space Camp.

Aerobatics draws a big crowd at Flagler Airshow

By Beth Graboritz
Staff Reporter

Skydiving, aerobatics, static displays, and a carnival were all part of Flagler County's Annual Airshow this past weekend at Flagler Airport. The event was co-sponsored by the Retired Senior Volunteer Program and Flagler County's Chamber of Commerce, both of which had volunteers on hand to sell tickets and promote the airshow.

Embry-Riddle participated in the airshow as well. Among its static displays were a Tampico, a Mooney, and a Crusader. In addition, the Embry-Riddle Flight Team sold programs to earn money for their organization.

Everyone enjoyed the static displays, but what they really wanted to see was the aerobatic performances. The airshow officially began when three parachuters leapt from a jump plane which was flanked by the two CAP 10B's of the French Connection aerobatic team. Of the three parachuters, one of them flew a flag from the strings attached to his canopy. At that point, the French Connection began circling the parachuter and their planes began streaming red, white

and blue smoke.

When the parachuters and the jump plane successfully landed, Daniel Heligoin and Montaine Mallet of the French Connection started their routine. One of their first moves was a hammerhead, a maneuver in which the plane climbs vertically as high as it can, then does a 180 degree turn and falls toward the ground.

After that, they performed a series of movements including synchronized loops, half Cuban eights, eight-sided loops, snap rolls and several negative G or "eyeballs out" moves. At one point, Heligoin performed a Lomcevak, a maneuver where he climbed vertically, turned his aircraft 180 degrees, and let it "tumble" toward the ground.

Later in the performance, the pair flew in close formation in a 360 degree "mirror formation" turn. At the end of the performance, Heligoin executed his famous "Heligoin" circle, a full negative G outside circle. He invented the move, and it was named after him.

The second performer was barnstormer Walt Pierce flying his specially modified 450 hp Stearman, Ol' Smokey. He demonstrated various aerobatic maneuvers includ-

ing snap rolls, Cuban eight rolls and an eight-point roll in front of the spectators.

Later in the airshow, wingwalker Lisa Pardue joined his act. She climbed from the cockpit to the wingtip at over 75 mph with no parachute, which she says would just get in her way. After a series of loops and rolls, she then jumped to the top of the airplane and tied herself to it with only one strap. Pierce then proceeded to execute a Cuban eight and a slow roll. To end the performance, Pierce flew close to the ground totally inverted while Pardue waved to the captivated spectators.

Next, Bill Parsons demonstrated the gyroplane's maneuverability. Its top speed is 100 mph and it weighs about 340 lbs. According to Parsons, gyroplanes are inherently safer than other aircraft because even if an engine fails, its forward air speed will keep the blades rotating automatically and will let the gyroplane glide to a smooth and precise landing.

The act following the gyroplane was performed by Richard Foote in his Grumman Wildcat, a Navy carrier-based fighter used during World War II. The plane has no hydraulics and in order to lower the carriage, Foote had to turn the crank handle 29

times. It is also equipped with four 50 caliber machine guns.

The next exhibition was given by remote controlled airplanes. The "pilots" performed the same aerobatics maneuvers with their down-sized aircraft that the pilots performed in their aircraft.

In the next performance, Paul Ordini introduced comedy into his routine. While a remote controller was pretending to be him, Ordini was pretending to be a dummy in his ultralight "remote controlled" home-built aircraft.

As the imposter was "controlling" Ordini's plane, a heckler distracted him and made him drop and break the control box. The plane then went out of control and almost crashed on the spectators. After the plane safely landed, the announcer revealed that the dummy in the plane was actually Ordini and that the plane was not remote controlled.

For one of the last acts, Peter Vandersluis flew an authentic T6G advanced trainer/fighter which is powered by a 600 hp engine and cruises at 165 mph. Vandersluis is a former Air Force T6 flight instructor and flew the same maneuvers he taught to his cadets. Some of his moves included a

slow roll, a split 'S' maneuver and a barrel roll.

Sky dancing by Steve Oliver was another act. Oliver flies a 1956 deHavilland Chipmunk designed as a trainer for the Royal Canadian Air Force and specially modified for aerobatics. The maneuvers he performed ranged from speeds of less than zero (flying backwards) to 220 mph. After Oliver landed, his plane "bowed" to the spectators.

The last demonstration was another performance by the French Connection. Some of the highlights of the routine were a very low snap roll executed by Heligoin and the "French Connection Fleur de Lys," cloverleaf, and hammerhead executed by the team. Several times during the performance, Heligoin and Mallet crossed in front of each other while at speeds of over 300 mph.

At the conclusion of the airshow, eight parachuters jumped from a Cessna 182 while a tape of Kate Smith singing "God Bless America" was played. Afterwards, all the performers gathered at a table to sign autographs and answer questions. Also, the television crew from Inside Edition was on hand to take crowd shots and film the airplanes doing aerobatics.

Doolittle passes away

The aviation world mourns the passing of General James (Jimmy) Doolittle, legendary aviator and aerospace innovator. Doolittle was best known for his daring raid on Tokyo on April 18, 1942, in response to the Japanese attack on Pearl Harbor on September of the previous year. On April 26 he was promoted to brigadier general and was awarded the Medal of Honor in May.

Apart from his wartime exploits, he found time to earn a Doctorate from MIT, win the Schneider Cup in 1925, the Thompson Trophy in 1932 in a Gee-Bee and set several world records.

He was also responsible for developing some of the first airplane instruments to be used which later led the way for commercial flying.

He later became an executive at Shell Oil Company, chairman of Space Technology Laboratories.

Aerobatic training available at Mudry Aviation

By Jason Piper
Business Manager

Last week you may recall my formation aerobatic ride with the French Connection. If you read the story, you'll know about Daniel and Montaine and how they have become one of America's greatest airshow routines.

What I didn't tell you about was the aerobatic school they have. Here's the great part: you can fly the same aircraft that Daniel and Montaine do. Their airshow aircraft are stock: no modifications except for the smoke system.

I was fortunate enough to go on a lesson with Mike Polen, an Embry-Riddle graduate and a Mudry instructor. Before the flight, I watched some of Mudry's students getting ready for the upcoming aerobatic competition at Sebring on October 14th and 15th.

I watched from the center of the aerobatic "box," a 3300 foot square

of airspace from 1500 feet up to 3500 feet where the competitors must keep their aircraft while flying a set routine. I watched Scott MacDonald, an Embry-Riddle flight instructor, practice his sportsman routine consisting of hesitation rolls, split-S, loop, Immelman 1 and a quarter turn spin, hammerhead, and a slow roll. Daniel, Kateri (Mike's wife and also a Mudry student), and I all sat on the ground at the edge of the box to critique MacDonald's flight.

Daniel watched with eagle eyes and could see the slightest mistake in the aircraft at 3500 feet. I watched four Embry Riddle students do their routines. Mark Eggberg, Matt Loiacono, Phillippe Lescao, and Kateri Polen all performed in the "box."

By then I had had enough watching and was ready to try it myself. Mike and I went through an extensive pre-flight oral and inspection of the aircraft. We strapped on the parachutes and were ready to go. I

had a tail dragger sign-off so Mike let me do the taxi and takeoff, which I performed with little to no accuracy at all.

The CAP 10 is a very sensitive high performance aircraft: small control movements are all you need. We went to altitude and started right in. I'm a little ahead of myself, I forgot to mention I'd already taken the into ride a few weeks before.

We started with half rolls and switched to inverted, because level inverted flight is the basis of all aerobatic training. After a few I was doing them with some degree of accuracy.

We were inverted and Mike asked me "What is Vy" (Vy is best rate of climb). I was stumped. I said "It's 100mph, but that's right side up!" Mike said with a chuckle in his voice, "Give me a Vy climb."

Remember we're inverted now, so I pushed forward to pick the nose up. When I got the speed down to 100, we were climbing at 1600 feet per minute, upside down! This is

when I decided that the CAP 10 was definitely a cool airplane.

We then went on into spins. I performed about a dozen one and two turn spins. They are really not that bad once you get over your initial anxiety. Everyone thinks "spins are bad, spin and die." I believe everyone should be introduced to spins before they solo.

That was the end of a Mudry Aviation typical first lesson, but since we had some more time and it was a ride for the paper we continued. We moved on into loops. An easy maneuver to do, but a hard maneuver to do right. I did a few and managed to hit my own "wake" like doing steep turns.

So I guess they were O.K. Then Mike let me do some hammerheads. Definitely the funniest maneuver that I did.

For those of you that don't know what a hammerhead is, you go straight up and when you slow down almost to a stop, you stomp on the rudder and do a yaw so you are

then straight down. Hard to describe, a blast to do.

It's hard to believe but that flight of .7 hours wrung out and tired me more than any three hour cross country trip. Mike explained that I probably made more decisions in one maneuver that lasts 10 seconds than in 10 minutes of straight and level flight. Makes sense. You're constantly moving the controls to adjust.

I think that everybody should have some aerobatic experience. Adam Shaw a Mudry instructor put it best when he said, "Spending all kinds of money and becoming a pilot without aerobatic training is like becoming a professional water-skiier and not knowing how to swim."

Writer's note: The staff of Mudry Aviation and myself would like to stress to everyone: Aircraft that are not certified for aerobatics should not be used to attempt aerobatics. Nor should they be attempted unless taught by a qualified instructor in a capable aircraft.

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Devotees flock to Orlando to see Depeche Mode

By Greg Rezendes
Depeche Editor

The lights fell low and it was as black as a starless night. Lights began to flash as a roar of thunder echoed through the arena.

The crowd jumped to their feet and began to scream knowing that in a few seconds Depeche Mode would be taking the stage.

There was a strong sense of anticipation while the thousands of devotees await the beginning of an extraordinary night.

They have been kept at bay by the earlier performance of the group The The, who opened for Depeche Mode. Now it was time for the real thing.

As we stared aimlessly at the stage, four silhouettes appeared causing mass hysteria in the audience. One of those figures turned its head and waved to the side stage onlookers causing applause throughout the arena.

As the thunder began to dwindle and anxiety was climaxing, music began to blare and it was known.

Depeche Mode was here.

An upper and lower level stage was set up for the band. The lead singer, David Gahan took the lower stage while Martin Gore, Alan Wilder and Andrew Fletcher took the upper level stage.

This gave Gahan plenty of room to dance and get close to the front row crowds.

It's not too often that a band can bring the acoustical sound of the studio to live performance. Depeche Mode had no problem displaying their experience with music. Sound and lighting was perfect with zero distortion.

Playing every note as if they were in the studio, Depeche Mode had the crowds on their feet for the entire concert. This enter-

tainment is from a vast amount of experience acquired over the years. Experience that dates back to 1981 when they released their first album *Speak and Spell*.

Twelve years of music with ten albums, Depeche Mode has hit the charts with many key singles over their broad career. The first being "Just Can't Get Enough," their technopop sound with founding member Vince Clarke. "Everything Counts" hit the UK charts in 1983 bringing much criticism of the group.

"People are People," introduced Depeche Mode to the United States top twenty in 1985. Although it was not played on The Devotional Tour.

Violator, their biggest album to date gave us "Personal Jesus," Depeche Mode's first gold single and "Enjoy the Silence," the first US top ten.

Now *Songs of Faith and Devotion* brings us songs like "Condemnation" and "I Feel You" with its hook line "this is the dawning of our love."

Songs of Faith and Devotion had a religious theme like many of the Depeche Mode songs of the past. This theme isn't a symbol of the group, but more a symbol of the world. On the concert program appeared a picture of Mary reminding us that everyone has their beliefs and not to forget about those feelings inside.



Depeche Mode has no problem staying in tune with the everchanging style of music. They just create their own style. They keep it simple with Gore writing the songs, Wilder the musician, Gahan is the singer and Andrew the co-ordinator. This allowed the group to survive the 80's and the 90's.

Depeche Mode's eighteen-month Devotional world tour began in Zurich, Switzerland on May 21, playing to a sold-out crowd. Like their platinum *Songs of Faith and Devotion* disc, The Devotional Tour is more performance-based than previous outings.

The North American leg of The Devotional Tour began on September 8th, at the Forum in Montreal. The first US date at the Centrum in Worcester, MA on September 10. These concerts are the group's first since their World Violation Tour in 1990.

David Gahan's performance was extraordinary with his vocal talents reaching every high note and proving his voice is the symbol of alternative. He really knew how to make the audience scream when he would wiggle his posterior or perform crotch thrusts for the crowd as Andrew Fletcher wooed the crowds with the synthesized sound of Depeche Mode.

Alan Wilder spent allot of time behind a drum-kit making the performance that much better. While, Martin Gore played more guitar to the audiences delight and took his turn on the mike.

Along with the outstanding vocals from David Gahan, Depeche Mode astonished the audience with an amazing light and video show. Nine miniature screens at the lower level stage and one giant screen above the upper stage level entertained the audience with video and light shows.

I particularly like the video shows for "Walking in my Shoes" when egyptian like bird creatures walked in line from screen to screen like some odd music video. When "I Feel You" was performed, shadow images of the band appeared and rocked with the actual band members. It was a real crowd pleaser and showed that allot of time and effort was put into arrangement of the concert.

Depeche Mode performed two encores



Depeche Mode is Alan Wilder, David Gahan, Andrew Fletcher and Martin Gore.

playing such hits like "Enjoy the Silence," "Everything Counts," "Fly's on the Windscreen" and "Personal Jesus," ending what was in my opinion the most powerful concert I have ever seen. The group left the stage as the fans kept cheering for more

Depeche Mode gave Orlando a night that can't be forgotten. They left the stage with big smiles knowing that they had done their job. David Gahan turned to the audience with the final words "See you next time." We can't wait!

For Love Not Lisa releases its debut album *Merge*

By Scott Augustus
Staff Reporter

This world is far from perfect. There are lots of things that we could sure use to make it a better place. A cure for cancer would be nice. global peace would do. I'd be happy if everyone just stopped talking about Bill Clinton's health plan for a day or two.

What this world doesn't need is another dime-a-dozen grunge band. Unfortunately, with For Love Not Lisa, this is the effect. The band just released an album entitled *Merge*, their debut in what

is going to be a short career unless something changes.

I feel old saying this, because it's what people from past generations say about our music. But, *Merge* sounds simply like horrible noise. Everyone has heard the old adage about a song sounding like someone was banging on trash cans, or sounding like someone was trying to kill a cat. This is worse — most of *Merge* sounds like someone is banging on a trash can with a cat.

For Love Not Lisa is Mike Lewis, Miles (according to the album cover, Miles has no last

name), Aaron Preston, and Doug Carrion. The cover doesn't say who the lead vocalist is, and there's no mention of what instrument each band member plays. Sounds to me like they all play guitar, and lots of it.

If you feel like you're not yelled at enough and people should scream more, then *Merge* is for you. This is what separates For Love Not Lisa from most other popular grunge bands around today (Nirvana and Stone Temple Pilots) — an excessive amount of yelling.

While this album isn't exactly a

winner, don't execute the band members yet. If you get a chance to hear the album, and you're turned off by the screaming, don't give up. The second half of *Merge* mellows out slightly, and this is the bands best (mediocre) work. Specifically, "Just a Phase" and the title track, "Merge," caught my ear. The band thought that "Just a Phase" was so cool, the words to the song had to be printed on the front of the album cover instead of on the back with the rest of the lyrics. It's not that cool.

Speaking of lyrics, FLNL's words are actually fairly creative.

There are three or four verses for each song too, and I guess this is good since it proves that they can think. The music offers little proof of this.

The words are basically the only strong point of FLNL's songs. Production-wise, it sounds like something that could have been recorded live (and not digitally remastered, like the album cover claims). In other words, it sounds like something that could have been recorded in my backyard.

In case you're interested in more official stuff, the album

Merge runs for over 66 minutes (that's a lot of yelling). For Love Not Lisa writes all their own songs. They are produced by Matt Hyde, for EastWest records, a division of Atlantic records.

If yelling and screaming and noise is something you're interested in, look into this album *Merge*. FLNL has also released a CD single for the first song on the album, entitled "Softland." But if you want an opinion, here's one: I don't like it.

Judging by the name of the band, I guess Lisa doesn't like it either.

In Utero is Nirvana's latest album featuring the track "Rape Me"

By Steve Mendrychowaki
Staff Reporter

Who hasn't heard of Nirvana? These days, its hard not to, since their faces are on the covers of almost every magazine.

Known as the band who put Seattle on the map as far as having a music scene, they went from virtual unknowns to modern rock sensations in a period of less than five years. This success is mainly due to the release of their album *Nevermind*, which came out at a time when people were getting tired of hearing stale songs with recycled themes by the same old bands. It was no wonder that the fresh, new, colorful sound Nirvana possessed helped them rocket to the top of the Billboard 200 Album charts. By doing this, they beat out proven veterans in the music industry like Michael Jackson and Madonna who reigned supreme at the time.

Prior to the release of their newest album, *In Utero*, all the press ever talked about was whether or not Nirvana could maintain the success they had achieved with *Nevermind*. Now that it is out, they have the long awaited answer to this question. Nirvana still reigns as the kings of modern music.

The bands style throughout this album hasn't changed much from the style of their previous works. It is very angry, using guitar distortion in the largest possible amounts. The vocals are very rough and aggressive but passionate at the same time. Most of the time, the lyrics are not understandable since they are either mumbled or screamed, this being a trademark of the band.

Many of the songs on this album, like in the past, are very sentimental to the band's lead singer, Kurt Cobain, since they are about his life. They focus around themes like love, drug abuse, growing up in a broken family, and bashing bands who are jumping onto the "alternative bandwagon" to make a quick buck.



Nirvana's Krist Novoselic, Kurt Cobain and David Grohl smile pretty for the camera.

Among the many outstanding songs on *In Utero*, there is "Francis Farmer Will Have Her Revenge on Seattle," "Pennyroyal Tea," which is a delightful tune about the joys of consuming household drugs, and the very "Lithium"-ish sounding "Dumb," which is possibly about Kurt Cobain's previous heroin addiction. By adding a cello in the rhythm section, this song comes off sounding very powerful.

Among the best, there is "Rape Me," a song not to be taken literally, since the band is very outspoken, about any type of degradation of women. This is evident on the front cover of the CD which shows a very tasteful picture of a woman with angel wings, and on the back cover, a disturbing picture of aborted babies scattered all over the ground. Rather, this song is most likely about the media and record companies "raping" the band by making

money off them. Starting off sounding very much like "Smells Like Teen Spirit," the song that made Nirvana famous, I'd say from experience that "Rape Me" is definitely a song that should be heard live, since it has lost a little energy in this recording.

Also on the album, there are "Radio Friendly Music Shifter," "Tourette's," and "Milk It." On these songs, Kurt Cobain makes a bunch of screams and guitar feedback sound rather enjoyable.

Then there is "Heart Shaped Box," the first single released off the album. This song, which in my opinion is the best on the album, shows a side of Nirvana that has not been seen before. Full of intense emotions and feelings, it is about falling in love with someone, and feeling pleasantly entrapped.

Critic's Corner: Demolition Man is an example of correctness gone overboard

Demolition Man	
Starring:	Sylvester Stallone Wesley Snipes Sandra Bullock
Rated:	R
Rating:	★★★
Length:	1:55
Playing:	AMC Volusia 8

By Keith Towers
Movie Critic

Last week, I told you how I choose which movie to review. Well, this week I was going to review *Gettysburg*, the new civil war epic film with a great cast as it looked very promising.

But, lo and behold, for the second week in a row, the Daytona theaters chose not to show a movie I wanted to see. Last week *Dazed and Confused* opened, and it wasn't showing in the area. This week it was *Gettysburg* which was ignored, so I was left to watch the new futuristic action movie, *Demolition Man*.

I'll be honest and say going into the movie I was expecting a very bad action film. This was based on Sylvester Stallone's inability to act, and some corny previews. To say I was pleasantly surprised would be an understatement. I had quite a few good laughs and was simply amazed at how well the director never missed a detail.

Demolition Man stars Stallone, as previously mentioned, and Wesley 'Willie Mays Hays' Snipes. Co-stars include Sandra Bullock and Denis Leary in two

enjoyable roles.

Stallone plays a Los Angeles cop in the year 1996. He is assigned to capture Snipes, who plays a psychopathic maniac killer who has kidnapped a bus full of 30 people. Stallone drops from the sky from a helicopter hanging on a bungee cord. This film had more than its share of stunts. Most of them were spectacular with some great new ideas and different twists.

After Stallone hauls in the orange-haired Snipes, it is discovered through the demolished building their battle left behind that Stallone has caused the deaths of the 30 hostages. Or so his peers thought.

Both Stallone and Snipes were sent to a cryogenic prison where through synoptic suggestion, they have their behavior altered. Where Stallone is taught to knit, Snipes is taught martial arts, weapons training, and other uses which can be put to use in his masters plan for world domination.

Snipes breaks out of his prison and shortly thereafter, the police untaw Stallone to capture Snipes in the year 2036. This future is strange to both Stallone and Snipes as they see that people are just a little too nice to each other and their own bodies.

Everything that was once fun to do is illegal because it is bad for you. There are machines which monitor language and issue slips, much like traffic tickets, for every time you swear. Both Stallone and Snipes rack up the points as a carryover from the profane 20th century. Stallone finds an inventive way to use all of the slips he gets in a necessary function of life.

Snipes is told to kill Denis Leary, who believes in all of the things that were outlawed because they aren't good for you, hence bad

for you, hence illegal.

Leary's role was hilarious and he provided the biggest laugh of the film when he gave a doctoral dissertation on what was great about the 20th century waste and self-abuse. His free ideas are what concern the ruling party and pose a threat to it. Snipes takes it upon himself, through some synoptic suggestion, to rid the world of Leary and Stallone.

Some good action sequences follow, although some of the editing was choppy which made the action hard to follow in spots.

Sandra Bullock was very believable as Stallone's sidekick raised in a totally different world than Stallone. She tells Stallone about his dead wife and tries to tell him about his grown daughter, but he doesn't want to find out that she is just like everybody else, dull and so very annoyingly content.

The director, Marco Brambilla, is a rookie whose previous experience was directing commercials. I thought the camera work and shot selection was well done with only minor flaws.

I was very impressed with the fact that every time someone swore in the movie, you could hear the sound of the automatic ticket machine issuing another violation to the lawbreaker.

One complaint was the extreme commercialism of the film. I wonder how much Taco Bell had to pay to be written in as the only surviving food chain. I can't think of one fast food place which would hold a monopoly in the future and possibly make anyone happy.

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

Software Review:

Those who play *Syndicate* will find that crime does pay

By Ronald Hess
Data Technology Editor

Once again, a computer game depicts a bleak future for humanity. In *Syndicate*, crime syndicates are vying for control of the world. Of course the gamer are asked to stop this devilish plot, sort of.

As a member of a small European Syndicate, you are looking to make your mark. This is accomplished by completing over 50 missions, across the globe. How this can be done requires a little background information.

In the future, large, multinational corporations control the Earth. Businesses with profits larger than national budgets were able to significantly influence the world governments.

Three major corporations, located in the United States, Europe and the Far East, became the new governing force over the world populace by controlling world economies. Needless to say, this was not a good thing.

One day, the European corporation created the CHIP. The CHIP acts similar to a drug. The hardware, inserted into the neck, could alter a person's perception of reality. The CHIP also left the user open to auto-suggestion. This gave the corporation the perfect means to control the world. The CHIP immediately started a war amongst the three companies.

While the three corporations fought to monopolize the CHIP. The world crime syndicates were busy earning profits from the piracy of CHIP technology. The syndicates were able to infiltrate the corporations. Soon the syndicates became the governing force in the world.

Future technology allows crime syndicates to increase their domain by deploying teams of cyborg agents to perform certain tasks. Cyborgs are cheaper and easier to control than humans. This is where the game begins.

It is your goal to become a syndicate executive. This is accomplished by controlling teams of four cyborgs as they attempt to complete their mission objectives. The game begins with a brief introduction followed by several options. Players may create new syndicates, load or save games, or quit.

Once the gamer has created their syndicate, they are confronted with a map of the Earth. From here you plan your path to global conquest. The continents are divided into different regions. Each region has a specific goal that you must accomplish in order to control that region.

Once a region is selected, the player is supplied with a map and mission brief. Enhancements to the map and brief are also available, for a price.

If the mission is accepted, the player must outfit their cyborg team. Weapons, cyborg modifications, and valuable accessories are available, for a price. The gamer has a

research division where new modifications, weapons and accessories can be developed, for a price.

The next step is completing the mission. The gamer sits in an airship, with a bird's-eye view of the city. From here, the player controls the cyborgs. Control is accomplished via a mouse or joystick. The gamer points-and-clicks where the cyborgs will walk, selects transportation and targets what the cyborg team will destroy.

Depending on the mission, the cyborg team might have to contend with enemy cyborgs from rival syndicates. This is where the research becomes important. The player always has to deal with the public and police. Of course people can always be persuaded.

Once the mission has ended, whether successfully or not, the gamer is returned to the map view. If the mission was a success, the player can choose another region to conquer. Unsuccessful missions must be replayed, at a loss of funds and equipment.

You might have noticed that many options are available to the player, at a price. Everything in the game must be purchased. The player's funds come from taxpayers' money. The taxes are collected from the different regions under the player's influence. Be careful not to over-tax the public. They may become discontent and revolt, causing you to lose your influence over the region.

The multiple aspects of the game are *Syndicate's* best selling points. The combi-



Syndicate is a futuristic game where crime syndicates battle for control of the world. Gamers spending tax money to fund their missions, while cyborgs, instead of goons, do the dirty work.

conjunction of financial and tactical strategies in numerous missions and their varying difficulty keep the gamer interested and involved.

Software reveals new information found by oldest NASA satellite

NASA Press Release

New software is giving researchers a remarkably improved look at data from NASA's International Ultraviolet Explorer (IUE), the space agency's longest-running astronomical satellite in Earth orbit.

Called the New Spectral Imaging Processing System (NEWSIPS), the software uses algorithms—mathematical instruction codes—that reveal previously hidden information in the IUE data, according to scientists at NASA's Goddard Space Flight Center, Greenbelt, MD.

"With this new software, we can revisit our old data and find all sorts

of things in there that we never could have seen before," said Dr. Andrew G. Michalitsianos, Head of the Observatory Section at Goddard, which built and manages IUE. "Who knows what we'll turn up." The 15-year old IUE was originally launched with a 5-year mission goal but is still functioning today.

The new system subtracts fixed-pattern noise from the IUE data, Michalitsianos said. Noise is an underlying and unwanted signal that can mar data quality, much like scratches on a record album, hiss on a tape or poor reception on a TV. The IUE noise comes from the ultraviolet detector on the spacecraft.

The software was developed jointly by Goddard and the

European Space Agency's Villesfranca Satellite Tracking Station in Spain. Such software was not available when the spacecraft was launched in January 1978.

Since then, IUE has beamed a prodigious volume of data back to Earth. Now scientists can review past findings and using the new software, enhance the quality of the data three to four times, said Michalitsianos.

Michalitsianos said the new software works particularly well on data from faint objects in the Milky Way Galaxy.

As a test of the new system, he said, researchers reprocessed data gathered by IUE in 1978 on an object in space known as the gravi-

tationally lensed binary quasar 0957+561.

A quasar is a quasi-stellar object that emits strong radiation, which may become faint if it is very far away. A gravitationally-lensed binary quasar is a quasar whose light has been bent by a galaxy positioned between it and the Earth. The intervening galaxy's gravitational field acts like a lens to curve the quasar's light around it. Seen from Earth, the quasar appears as a double image due to the splitting of its light above and below the object's actual position.

Using NEWSIPS to reprocess the IUE data on the quasar, scientists discovered previously undetected spectral features that suggest the

presence of an extremely hot x-ray-emitting gas, Michalitsianos said. Spectral features describe the amount and type of energy emitted from an object at a specific wavelength in the electromagnetic spectrum.

"This is the first test of NEWSIPS that has borne scientific fruit," Michalitsianos said, "and it's an important demonstration of the capabilities of the software."

The results of the quasar data reprocessing are scheduled to appear in a paper in the Nov. 10, 1993, issue of "The Astrophysical Journal," said Michalitsianos, the lead author. Also contributing were Demosthenes Kazanas, Yoji Kondo, Michele de La Pena and Stephen

Maran of Goddard; Joy Nichols-Boblin, Thomas Meylan, Mario Perez and Randy Thompson of Computer Sciences Corp.; and Fred C. Bruhweiler of the Catholic University of America in Washington, D.C.

About 100,000 other IUE spectra stored at Goddard's National Space Science Data Center are being reprocessed with NEWSIPS, Michalitsianos said. In a few months, he added, reprocessed data will begin to be released to the scientific community.

"It's very exciting," said Michalitsianos. "This is really exploiting the full capability of the satellite. You're really realizing the full investment of the mission."

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ΑΞΔ

By Becky Kencik
Pledge Editor

Congratulations to our thirteen newly pledged members: Kelly, Anita, Michelle, Josse, Frances, Paula, Julie, Kristen, Erika, Erin, Shannon, Nicole and Heidi. We wouldn't have had such a great rush without everyone helping as much as they did. Good job girls!

In the upcoming month we are looking forward to our socials with Sigma Pi, a canoe trip with Sigma Chi, and a wine and cheese with Delta Chi. A special thanks goes out to Yvonne for sleeping on her couch the past ten days to allow comfort for our advisor. By the way, where is the COMPOSITE? Watch out everyone for we shall be the Greek Week winners this year.

Naval Aviation Club

By Erin Rice
Public Relations

I'd like to start off by welcoming the new members into the club. It seems things are really starting to come together: new officers are in place and working to send things in the right direction. Congratulations to our new President, Chris Mislter, and Vice President, Chris Windisch. The Naval Aviation Club is an organization formed around the idea of accomplishing a common goal. That goal is to attain a slot in Aviation Officer Candidate School (a flight slot) for the United States Navy. However, the club is not just for those of us who are after this goal. Anyone with an interest in the Navy, Marine Corps, or any aspect of military aviation would enjoy the club. This semester the club has had

two meetings. At the first meeting guest speaker Ensign Clark spoke to us about his experiences in the Navy and about flying the PVA-18 Hornet. The second meeting featured a movie, *Full Metal Jacket*, and an eye doctor from the community. Meetings for the rest of the semester are scheduled on: 10/19, 11/2, 11/16, and 11/30, so come and check out the Naval Aviation Club. Our main event so far this semester was the trip this past weekend to NAS Cecil Field outside Jacksonville for the airshow. The show was spectacular with static displays set up by all branches, and another top notch performance by the Navy's flight demonstration team, the Blue Angels. Upcoming events include a trip to the aircraft carrier Saratoga and weekly PVA-18 simulator time at Cecil Field. Hope to see you around!

S.H.A.P.E.

By Chris Parker
Club Member

As we gear up for our fifth meeting of the semester, we thought it would be nice to pause and reflect upon what we have accomplished so far. For five weeks, Students Helping Against the Pollution of the Earth has been an important catalyst in the improvement of environmental conditions on and off campus. On September 18, several dedicated club members gathered at Ponce Inlet to participate in a county-wide beach clean up. Many thanks to Lisa, Rachel, Phil, Dave and Susan for their successful attempts to make a difference. Currently in progress are collaborative efforts with Morrison's to improve recycling and conservation efforts. Keep an eye open for new recycling bins to be placed in the student

center in the near future. We trust everyone to do their part. Additionally, planning with Physical Plant is underway to create a clean up team (consisting mostly of volunteers) to improve the moat located on campus. It's a dirty job, but... Of course, we aren't all work and no play. We have several "nature appreciation" excursions planned for this semester as well. On November sixth, for example, the club will be travelling to Camp Withlacoochee, Florida for a camping and canoeing trip. Excitement is building as members of the university's only environmental organization continue to S.H.A.P.E up the environment. If you would like more information or would simply like to voice your support, the club may be reached through our box in student activities or by calling Lisa, the club president, at 226-6570.

ΘΦΑ

By Meg Biddle
Public Relations Chair

Hi to the sexy Theta Phi ladies! This past week was our pledge-in, so I would like to welcome Carla, Charlene, Jen, Laurie, and Stephanie into the pledge sister program of Theta Phi Alpha. Also congratulations to all the Big Sis's. Remember

to keep your lil' sis under your wing of sorority knowledge, experience, and love. Anyway, hey Erin, just kneel! Riding Hood keep the faith. Midge, do you still need Cheetoes? Snow White, know that we miss you. One last thing to all the sisters and to the new pledge sisters, remember the Halls of Medicine.

Riddle Riders

By John Rothen
Vice President

It's a new year and the Riddle Riders are almost cruisin'. It has taken just a little while to get rolling but the information on the club is finally getting out to everyone. We have been busy selecting new officers and planning rides and activities for the fall and spring semesters. So far we have come up with far more things to do than we have days available to do them. Four new officers were selected a few weeks ago and helped make our first rides a great success: Rob Sternis is a returning officer as the new club President, John Rothen, Rich Clarke and Andy Shaw are the new Vice President, Treasurer and Secretary, respectively. These positions were for the most part appointed due to a lack of officers at the beginning of the semester. It seems that some of the former officers decided to do something crazy like graduate and find real jobs. Former officers Mike Lubanski, Roy Perkins and Steve Boylan are still around town and are helping greatly with the new transition. The club meets every Sunday at 10:00 a.m. in the triangle lot for a ride around the Central Florida area. We have made several rides during the last few weeks including a trip to Fort Matanzas, St. Augustine and a trip throughout SW Volusia county

that ended at King Neptune's Seafood Harvest. This weekend, October 16-17, we will be heading out to the Ocala National Forest for a camping trip. Biketoberfest starts next Thursday with an abundance of activities in the Daytona area and culminates with the AMA Race of Champions on Sunday at the Daytona International Speedway. Club member Steve Buery will be testing his skills on the track during the weekend. The cost for the entire weekend at the races is only \$20.00 and can be purchased at the Information Center of the Speedway. The remainder of the semester will be filled with several more rides, including a trip to the Space Coast, a road warrior ride and a trip to Key West with the SCUBA club over the Thanksgiving Break. We are looking for many more new members who love to ride and just enjoy having a good time. Our next meeting will be on Thursday, October 21 in room E-601 at 7:00 p.m. and will be meeting every other Thursday from then on. We also meet on Friday nights for pizza and a ride to relieve the stresses of the week. We are currently looking for a new place to hold our pizza feast due to growth and an increased interest in the club on the weekends. For further info concerning the club or upcoming rides, contact Rob at 258-3399 or John at 788-7590. SEE YOU ON THE NEXT RIDE!

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 copy.
- ➔ For more information stop by or call *The Avion* office at (904) 226-6049.

ERFSEDS

By Eric Goss
Public Relations

ERFSEDS would like to thank Dr. Webb for speaking about the Delta Clipper at this week's meeting. For those who missed Dr. Webb's speech on September 17th, this was a great chance to hear about the Delta Clipper. Tomorrow ERFSEDS will be sponsoring a Russian Cosmonaut and the Director of the Youth Science Camp (like Space Camp) as guest speakers. They will be speak-

ing at 7:30 p.m. in the Spruance Hall Atrium, following a reception which starts at 7:00 p.m. This Friday ERFSEDS will be sponsoring a Navy TopGun Pilot/Instructor. He will be speaking at 4:00 p.m., in W-306. All are welcome. This Saturday ERFSEDS will be taking a trip to Epcot Center in Orlando. The cost is \$24.95. Those who would like to go should contact us by Friday through our box in Student Activities. This should be a great trip!

ΣΠ

By Pat Liberto
Secretary

This article is written in the eyes of three brothers and a pledge who made an excursion to San Antonio, Texas on a whim. 7:00 p.m. two of the brothers involved, Bourke and Kline, were watching cartoons. Suddenly they had a vision: San Antonio, Texas, Trinity University, beer, babes, and the Naked Iguana. By 8:00 p.m. they had recruited the likes of brother Red Baron and pledge Rich and were on the road, heels to the wall. At 9:00 p.m. three naked blondes of questionable virtue, blew by with their breasts placed firmly against the glass. Eighteen hours later we were in the promised land. A real school, with a real girl to gay ratio, with real dorm

rooms. Far, far away from all the Riddle dorks and worlds apart from the care and worries of this world. As if things were not going great as it was, we were able to contact the elusive delta stealth who is presently residing in Houston. Two days and millions of brain cells later, after we had drunk beer and blue margaritas till we could drink no more and had found the wonders of Ephedrine we started our journey home. Some where in Texas we nearly crashed and burned up as Kline nearly pissed all over the car as Bourke nearly lit the entire car on fire with his cigarette. If you think this was all fun and excitement you should try driving 18 hours with a hangover. P.S., who the hell is Darin Tillman? The real authors of last week's article were Pledge Keith, Red Baron, Kline and Furry.

Sailing Club

By Bryan Rosko
President

Riders of the vertical wing: as promised, we shall party. Party we will for a good cause, mind you. For spring is on the horizon, Spring brings wind, offshore. Offshore wind calls for a new boat, preferably of the multihull variety. Party we will for celebration, for three souls share the same date of creativity. Below, the details. WHAT: Party WHEN: Friday, 10/15 WHERE: Halifax Sailing Center (take Bellevue East to Beach St., take a right on Beach, then first left on Freemont Court, then drive straight until you get there.) PURPOSE: Windsurfing/Sailing Club Fundraiser

EVENTS: Musical Entertainment, Sailboat rides, SOF. TIME: 6-8: Club members only. After 8- open to all. In other club news, everything is about two weeks old by now. Stavro's Pizza appears to be our new permanent meeting site, if all went well and we didn't get kicked out last week. If you want to sail Thursdays and Fridays, come on down anytime in the afternoon. Hopefully, our luck with the wind will continue on weekends until it gets too cold. To any of you who haven't been down to the sailing center lately (or at all), don't be shy. We're always willing to teach you how to sail or take you for a ride. Speaking of rides, call me at 257-4370 if you need one. Get involved now - it's just the beginning!

AHP

By Dominick J. Dunnigan
Historian

The pledges have survived another week, at least some of them, and they have completed their second assignment. Once again they are reminded that procrastination is not a key agent in pledging. Don't forget the four words of survival to solve your problems!! Last Saturday we volunteered our time to assist the United Way in painting homes. The program was called Paint Your Heart Out and was

designed to help those who can not afford or who are unable to paint their houses. The United Way thanks us for our time, effort, and generosity. Congratulations to the football team for another victory on Sunday. It just goes to show you that practice does make perfect. Coach P. is doing a superb job with the team and encourages all to come out and cheer us on again this Sunday. Trivial Hint: While driving with Craig, wear a crash helmet! Have another prosperous week!

ΣΧ

By Jim DeForest
Chapter Editor

Brothers, congratulations on receiving the Intergenerational Helping Hands Award. Our involvement with the community is both important to us and the school. Let's keep up the good work. Our brother of the week is Brian Lohjko, good job! Pledges, let's get on those interviews; start doing some scheduling. It was a pleasure meeting our Grand Praetor last week. He gave us some real good advice concerning our chapter and

also asked us what we thought of a province retreat, possibly on a boat with 50 kegs or so (of soda). Speaking of boats, let's all start saving now and make our own upcoming boating trip one we will never forget with full chapter participation. Maa, what are you going to name the kid (license plate "FRAIN 111"?) Diff, like the dew, to bad the women don't! Casino, You've really got to learn how to dance. Silly Mexican, she is gone forever, ya right. Jobe, missing something. Gary, Johnny Law would rather see you in orange.

Aerospace Society


By Matt De Vito
Historian

At this week's meeting, we're having the model plane contest. There will be prizes awarded and it will be a lot of fun so, show up!!! We have a car wash this Saturday, October 16th, so bring a towel and change of clothes because you're going to get soaked. A thank you goes to Dr. Fleck

from the Physics Department who spoke at last week's meeting about the life cycle of a star. We will do another astronomy night with Dr. Fleck later in the month. The last astronomy night with him we got to look out at Venus which was real cool. Don't forget about the Kennedy Space Center trip on October 23rd. Make sure you mark that date on your calendar. See you at the meeting tonight at 7 p.m. in room E-611.

FRIDAYS CARIBBEAN POSSE Happy Hour 4-7	SATURDAYS CARIBBEAN POSSE Stormin' Normin's Karaoke Sing Thing 4-8	SUNDAYS HOT ST. AUGUSTINE REGGAE Third Light Stormin' Normin's Karaoke Sing Thing 4-8	MONDAYS Rocking Blues Cool Breeze Happy Hour 4-7	TUES, WED, & THURSDAYS CENTRAL FLORIDA'S BEST REGGAE CARIBBEAN POSSE Happy Hour 4-7
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Everybody Knows Everybody Goes to



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Lighted Volleyball Courts for Late Night Action!

Happy Hour: Mon-Fri
4pm - 7 pm
80¢ drafts
\$3.75 pitchers

The Kitchen is open until 2 am, Serving our full menu.

Nightly Specials!!
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127 S. Ocean Ave.
Two Blocks south of The Pier, directly on the beach!

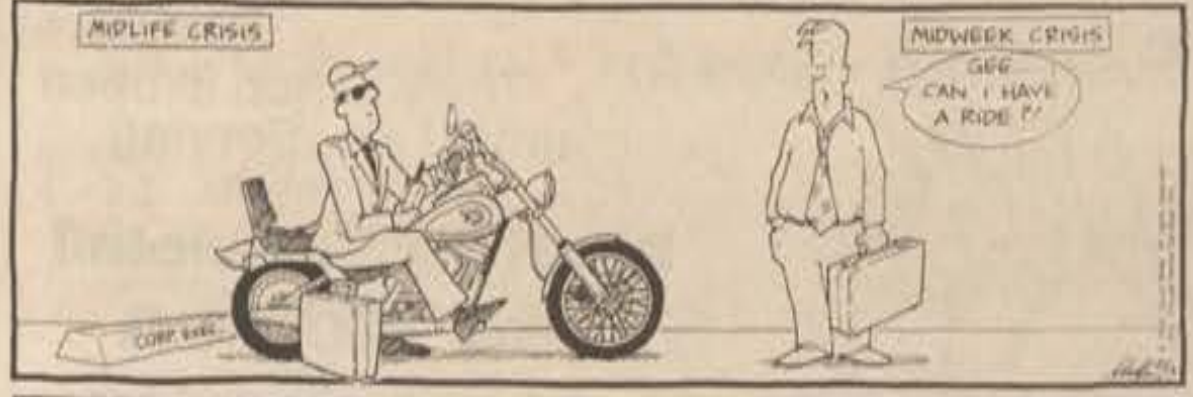
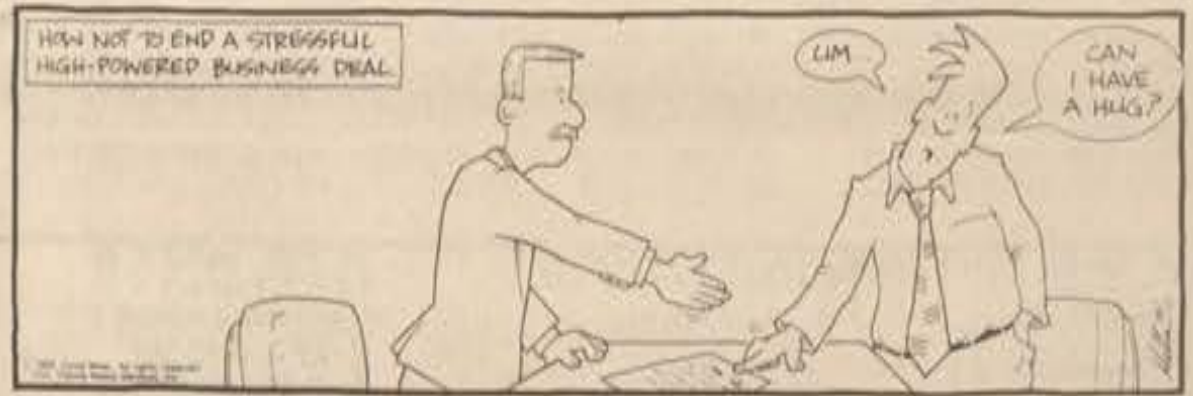
Mention this AD for 10% off all clothing at **THE OCEAN DECK REGGAE REPUBLIC**, across from Taco Bell on A1A.

Calvin and Hobbes

by Bill Waterson

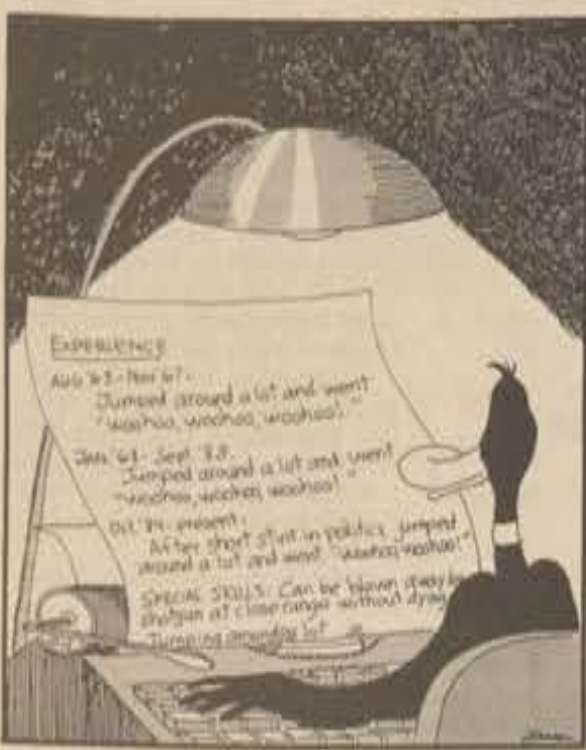


Dave by David Miller



Far Side

by Gary Larson



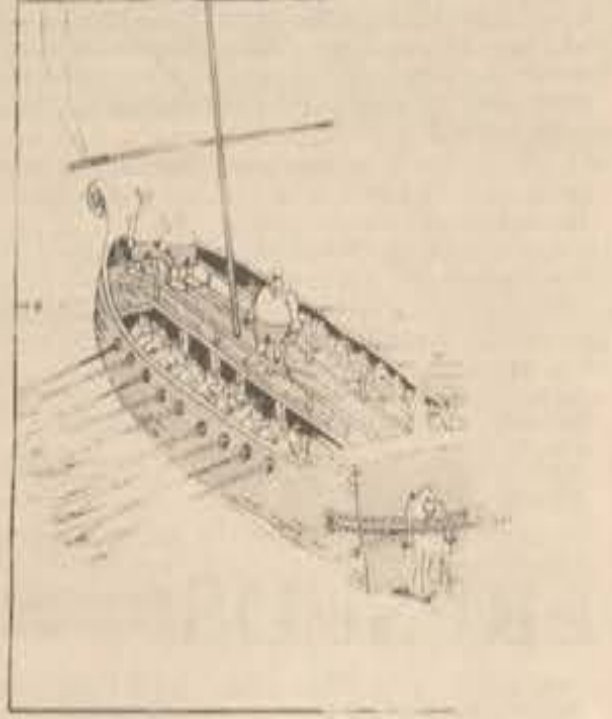
Daffy's resume



Classic conversation stoppers



Listen, Noreen—you wanna be the photographer next time, be my guest.



The better-equipped slave ships... it always carried a ship.



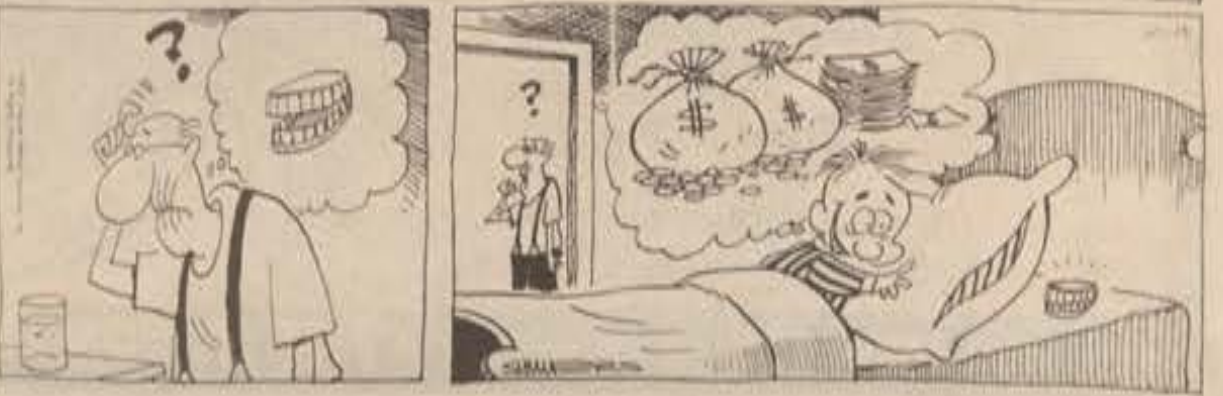
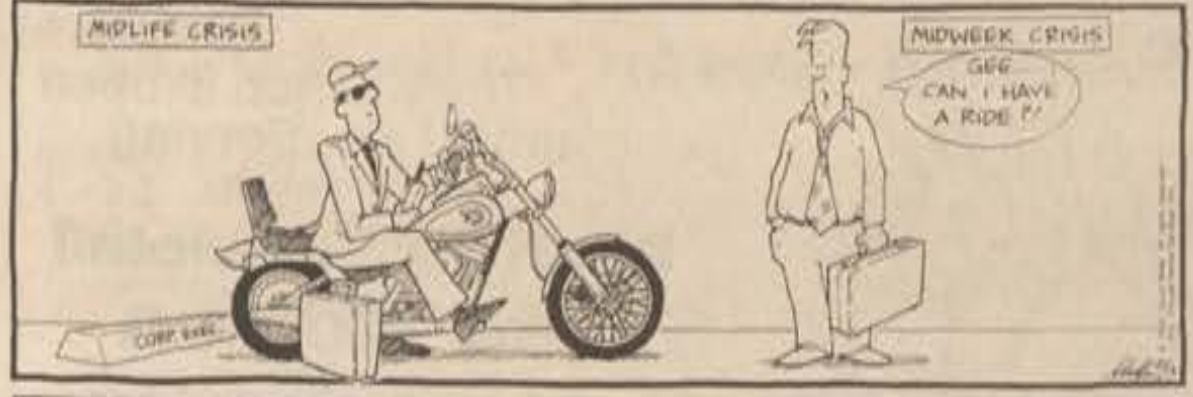
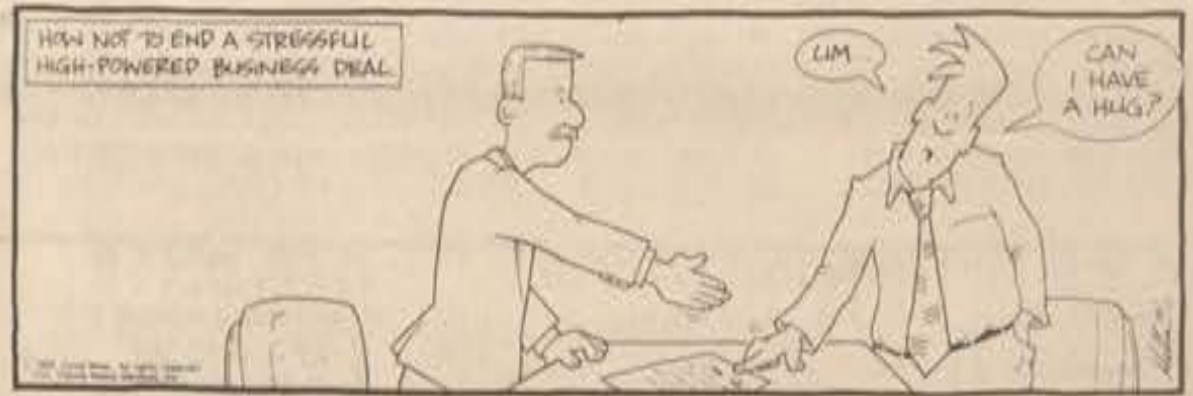
Most interesting, ma'am—you've identified the defendant as the one you saw running from the scene. I take it, then, that you're unaware that my client is a walking stick?



A few days following the King Kong "incident," New Yorkers return to business as usual.

Bound and Gagged by Dana Summers

Bound and Gagged by Dana Summers



Autos for sale

1981 Mercedes Benz 240 D. Great condition, great transportation. A/C, P/S, P/L. \$3100 obo. Call 756-1808. Box 7670.

1988 Audi 5000. New transmission, new A/C compression. This car is in excellent shape. Call Aaron Gee at 238-8849.

1989 Mitsubishi Dodge Colt for sale. Low mileage, excellent condition, A/C, aluminum alloy rims, tinted windows. Call 756-1808 or Box 7670. \$3900.

1983 Yamaha CV80K Riva Scooter new tires, rear brakes, runs excellent, electric start. Comes with lockable storage box and a helmet. Everything works. \$200. Call 253-4093 (or please leave a message).

Roommates

Countryside/Port Orange
Very nice 2 bedroom 2 bath townhome-complex patio, garage, vertical blinds, dishwasher, washer/dryer hook up, community pool, tennis, putting green, no yard work, \$550 + sec. Available now. Call 788-6911

Need a place for spring? This is for you! 3 miles from ERAU, have own bedroom in 2 bedroom apartment and pay 1/2 rent, phone and electricity. Females, please. (Non-smoker, no pets). Call 230-0427 ASAP!

Female roommate wanted.
Three bedroom, two bath condo on the beach. 2000 sq. ft. fully furnished. Full security with plenty of luxuries. \$350 all utilities included. Call Janis or Jenny at 767-5812.

Lacking for one quiet, mature and clean individual to occupy third bedroom (bed, desk, chest of drawers available if desired) in nice spacious house in Port Orange. \$225/month including utilities. \$100 deposit to move in. No lease. Call anytime. 761-1814.

Beachside 2 blocks from beach. Plenty parking. Quiet area. Wraparound balcony, washer/dryer. \$235/month + 1/3 utilities. Cable, A/C, heat. Call 238-2535.

Port Orange pool home with fireplace, plenty space, washer/dryer, cable, central air/heat, fenced yard, target property in subdivision, ceiling fans throughout, great study place. Call 238-2535.

For sale

Sofa, good condition. \$40. Gerry infant car seat, excellent condition \$35. Call Kathy X6970 or 427-3230.

Blank computer disks, 3.5" \$0.75 each. Call Keith @ 258-7521.

Cannondale Racing bike series 3.0, has elliptical crank set-up. Call for more information \$400 obo. Call Paul at 255-9574.

For Sale: TREK 820 Mountain bike. Good Condition \$130. Call David 756-4375 or box 5388.

DOWNTOWN USED FURNITURE 9000 sq. ft. showroom. Tues.-Sat. 10:30-4:06 N. Beach St. Daytona 239-9884. Buy and Sell.

Buffy 10 speed \$35. Call Greg at 258-7521.

For Sale: Apartment size refrigerator. Works great, with strange Aussie paint scheme makes it a conversation piece. \$50. Call Keith at 258-7521.

Speedy three fin surfboard for sale. Great condition \$120. Call 761-9504.

One year old Ball Python w/55 gallon tank, heat rock, lights, lid and all accessories. \$130 or best offer. Ask for Ken at 756-3217. (Excellent condition).

King size waterbed with heater and wireless mattress. \$170 obo. Call 761-9504.

Single bed, great condition \$80. Call Greg at 258-7521.

For Sale: 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.

Amiga 500. 1 meg ram, 2 3.5 disk drives. Needs some minor maintenance. \$250. Call Keith @ 258-7521.

Nice, comfortable, full-sized couch \$50. Call 788-9976 after 5 p.m.

4" B&W portable TV with AM/FM radio built in, works great. Call Ken at 756-3217. \$25.

Surfboard for sale. 6'2 Tri Fin. Good condition. Asking \$100. Call Damon at 322-2727.

Telex Air headsets and flight calculator for sale. Asking \$250 or best offer. Call Phil at 767-4478 after 2 p.m.

3.5" floppy disk drive (1.44 Meg) \$45 obo. 5.25" 1.2 Meg floppy disk drive \$45 obo. Call 236-7553.

Bodacious Beaver Blades: would be business-like and better but believe blades to be a bargain at 90 big ones. Call Brian @ 258-9004 before they're bought.

Miscellaneous

Multi \$75 hr. Single \$50 hr. MEI or other certificates or ratings offered. Contact Barbara at 788-7527.

Quality flight instruction. Private, instrument, commercial in either PA-28-140 or C-152. Flagler Airport. No ATC delays. Contact Kevin at 1-437-8359.

Fly fast, build multi-time Corona 310 \$70 hr. Dual only. Make trips and have fun! Call 673-1546.

Like backpacking? Need a partner to hike with. Please call Wayman at 322-2740 or leave a message in Box 4215.

Found: A pair of Ray-Ban glasses in "A" building on 10/1/93. Call Jeff @ 274-4800.

POP WUNOPIN.
You've found the "Cheez Gwatter!" Also, don't forget - Beethoven's pissed! 2 few traits, and some great pictures! R.J. P.S. Stove-top or ma fish, anyone?! Mike? Bill?

HEY HAIL!
I say let's camp out in front of BR's until they open! I need to find something soon even "old skinny one" is starting to look good!! (Help!!!)
REDHEAD

To the beautiful physicist in the Writing Center: You are still the girl of my dream! I'll leave a light on for you!

ZACK.
Who would've ever guessed 3 months ago, that we'd be where we are today. "You're so Crazy..."
Forever,
ME

HEY CARRY ANN,
Welcome to Sunny Daytona Beach!
THE KING

BIL.
Just a little more to say thank you for everything you've done for me. You're the greatest!
Love always,
BOB

ELAINE,
Remember-Math was created for humans by humans-it is a myth that will undoubtedly fail. By the way, feel free to call if you'd like to hear more of this senseless philosophy.
226-7323. R.P.S.

TO APD PLEDGES:
The Orange and Brew is calling & Don is falling to the Bottom of the Sea so have fun & let the brothers be!
PUCK

CARRY ANN,
I hope you've been taking your vitamins. These're going to be some serious body slapping.
THE KING

A man should be able to do it all; shoot a gun, write epics, drive a car, make love, fly a plane, program a computer, balance a check-book, raise a child, cook a meal, carve sculptures, plan a war, design a ship, and skin a fish. Specialization is for insects.
THE BATHROOM PHILOSOPHER

Out of the 100,000+ words found in the English language, none can inspire more fear than a simple four letter word; cops. The pronunciation of your middle name comes in second, however.
THE BATHROOM PHILOSOPHER

You live and you learn. Or you don't live long.
THE BATHROOM PHILOSOPHER

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 \$15 per column inch. One column inch holds approximately 35 words. 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.

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Personals

The will to live can overpower the odds to die.
THE WISE OLD OWL

HEY CARRY ANN,
What's your plan on anybody play?
THE KING

Congratulations AXA Association,
You are now part of a frat that cannot spell. OBSERVANT IN THE U.C.

HEY AM-BAG!
Redhead and Hall are inviting you to ice cream this week!! Call us!!!

B.B.
Why are you letting George come between us? Thanks for the almost "perfect" weekend. It can be better!

XVC,
I miss you! I just wanted to say IB.
JKB

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Review

(continued from page B3)

On this album, Kurt Cobain has proven himself to be the master of bending and shaping guitar feedback into remarkable sounds and rhythms. I'll go as far as to say that his guitar distortion genius rivals that of Jimi Hendrix.

An added bonus to this compact disc can be found in the cover sleeve. Among the many pictures of the band in concert, which give a glimpse of their live experience, can be found the lyrics to the songs. Even though its nice to know just what Kurt is screaming or mumbling, the lyrics still are hard to comprehend.

I am pleasantly surprised with how outstanding *In Utero* is. I'd definitely recommend this album to anyone who has heard Nirvana before and liked them, since their style is very consistent, and to any adventurous types. With the release of this album, Nirvana has proven their status among the proven veterans of today's music. They are unconditionally here to stay.

Observatory

(continued from page B1)

during the actual reboot operations. The Compton Gamma-Ray Observatory is managed by Goddard for the Office of Space Science at NASA Headquarters in Washington, D.C. The 17-ton observatory was launched April 5, 1991, on the Space Shuttle *Atlantis* and is the heaviest civilian spacecraft deployed by a shuttle.

The \$550 million observatory, a collaboration between the United States, Germany and The Netherlands, has a mission goal of 2 to 6 years and carries four science-gathering instruments. The satellite exceeded its minimum life in April this year.

The observatory was sent aloft to study the gamma-ray universe. Gamma-rays are the highest energy radiations in the electromagnetic spectrum, created by some of the most violent events in the Universe, such as the explosion of stars. Gamma-rays can be studied effectively only from space because the Earth's atmosphere prevents them from reaching the ground.

Rats

(continued from page B1)

shuttle lands. The experiment will deal with twenty-four lab rats. All rats will be dealt with humanely and in accordance with the guidelines set aside for animal research.

The rats' heads will be quickly cut off with a guillotine-like device that will sever the spinal cords. This task is not unusual for shuttle astronauts Marty Fettman and Rhea Seddon. A veterinarian and surgeon respectively, they both have dealt with animal research in labs on Earth.

Only five or six of the rats will be killed on the flight, though the rest of the rats that will be used for the experiments do not have a long happy future ahead of them. They will be dissected when they are back on Earth to provide tissue to be compared to the samples collected in space.

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Proceeds to benefit Alpha Eta Rho and Embry Riddle Aeronautical University Athletic Programs.

GRAND PRIZE



1978 Cessna 172N Skyhawk II
(estimated value: \$45,000)

This aircraft is in like new condition, with new paint, new interior, IFR, dual NavComm beacon, G/S, ADF, Loran and many Cessna extras.

2300 total time

**300 hours since major
overhaul by G&N.**

Spec. sheet available on request.

Winner is responsible for all incumbant taxes.
Aircraft will be delivered to nearest local
airport of winner.

\$100 per ticket

only 800 tickets to be sold

Win Your Wings,

or one of the other valuable prizes in Alpha Eta Rho's *Great Aviation Raffle*. Each \$100.00 donation buys you one of only 800 raffle tickets to be sold. This gives every ticket holder a **better than 1 in 60 chance of winning** one of the many prizes up for grabs -- including our grand prize, a 1978 Cessna 172N Skyhawk II, fully refurbished and ready to fly!

The drawing date is scheduled for December 15, 1993 -- So reserve your ticket early. Ticket sales are limited to the first 800 buyers only. Don't Delay!

First Prize

A Magellan NAV 500A G.P.S. Receiver
(Estimated Value: \$1350.00)

Second Prize

An ICOM IC-AU Hand Held Transceiver
(Estimated Value \$550.00)

Third Prize

A David Clark H 10-80 Headset
(Estimated Value \$275.00)

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This could be your ticket to Fly!

To Enter,

Send your check or money order for \$100 per ticket in care of Alpha Eta Rho, Cessna Raffle, 254 Jellison Rd., St Augustine, FL 32084. For more information, call Raffle Chairman Frank Charles at (904) 461-1007