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SPACE TECHNOLOGY

Shuttle *Discovery* makes first Florida night landing

➔ First night landing at Kennedy Space Center provides viewers with unexpected flickering light show.

By Bill De Brauwler
Senior Staff

The silence of the night over Central Florida was shattered by two sonic booms, only split seconds apart, minutes before the Space Shuttle *Discovery* glided to a spectacular night time landing at the Kennedy Space Center (KSC). This is the first time an orbiter has

made a non-daytime landing at the cape, and only the sixth time since the shuttle started flying in 1981 — the other five times were at Edwards Air Force Base. "It's nice to have the first one under your belt," said Robert Sieck, NASA's launch director. "It's a super ending to a super mission." Weather was not a factor, although thunderstorms several hours before had threatened the

landing. NASA cannot land the shuttle if there are thunderstorms within 30 miles of the landing site. Bad weather had scrubbed *Discovery's* landing attempt the day before.

The shuttle was lit up from behind by 16 massive search lights as it glided over the runway and touched down exactly on time at 3:56 a.m. last Wednesday.

After the spacecraft came to a stop, NASA officials decided to shut down an auxiliary power unit (APU) prematurely, because orange flames were seen coming from the orbiter as it was rolling down the runway after it touched down.

Sieck later explained that it is normal for hydrogen to escape from the APU, and that when it mixes with oxygen it can create an orange flame, and stressed that the crew was never in any danger.

The flames allowed the people present at the landing to follow the progress of *Discovery* during its roll, since the shuttle does not have any external lights and would have been impossible to see in the darkness.

Commander Frank Culbertson and his four crew mates spray painted a "51" on the runway to mark the spot where the first night landing at KSC took place.

The landing marks the end of a 10 day mission that saw the deployment of an advanced communications satellite, a peek at the stars through an astronomical telescope and a space walk, to practice and

Burning exhaust creates flashy orange light

By Brian Gamage
Space Technology Editor

Immediately after the Space Shuttle *Discovery* landed, a bright orange light was observed flickering under the base of the vertical tail. The flashes occurred in regular intervals and continued through the runout of the orbiter.

Once the shuttle came to a stop, the flashes turned to puffs of light and smoke and prompted controllers to instruct Commander Frank Culbertson to immediately turn off the Auxiliary Power Units (APUs).

There are 3 APUs located directly under the forward base of the vertical tail and two of them vent their exhaust in the same area.

The APUs are used to move the lifting surfaces of the orbiter, open and close the cargo bay doors and apply pressure to the brakes by

pushing hydraulic fluid through the shuttle.

The APUs aboard *Columbia* and *Endeavour* were the subject of a technical review where residue was found on two drive shafts. The build-up occurred more rapidly than was expected and caused engineers to worry that the shafts might fail. Some of the APUs were replaced with newer models and other units were taken from the orbiter *Atlantis*. *Discovery's* APUs passed inspection.

After an investigation, it was concluded that the APU's exhaust posed no problem to the flight requirements of the orbiter.

The orange light had never before been seen emanating from the exhaust locations during daytime or nighttime landings. NASA blamed the light on the hydrogen in the exhaust igniting when it came in contact with the orbiter's extremely hot surface.



Illuminated by 1 million candlepower lights, the Space Shuttle *Discovery* touches down at 3:56 a.m. on the runway at Kennedy Space Center after spending an extra day in space to conduct more experiments in the free fall of low-earth orbit.

NASA says new Hubble camera good to go

By Brian Gamage
Space Technology Editor

A replacement part that was built to repair the Hubble Space Telescope (HST) turned out to be OK after doubts were raised concerning its compatibility with the orbiting telescope.

The Wide Field/Planetary Camera II (WF/PCII) is scheduled to be installed in the HST on a December shuttle mission, however, the additional testing is not expected to delay the planned Dec. 2 launch.

The instrument required more testing because of new results from earlier testing at the Goddard Space Flight Center which showed that the focus point for HST might not match up with the new camera.

The Corrective Optics Space Telescope Axial Replacement

(COSTAR) instrument is currently being serviced at the Kennedy Space Center in preparation for compatibility tests with the space shuttle. The COSTAR will combine with the WF/PCII to hopefully correct the flaw in Hubble's reflective mirror.

On-orbit focusing involves focusing the camera by moving the observatory's secondary mirror in a position that aligns it with the COSTAR.

In more detailed tests conducted at Goddard, officials discovered errors that would have put the two replacement parts out of alignment by about 7.5 millimeters.

These results were inconsistent with tests conducted at the Jet Propulsion Laboratory, where the instrument was built. An error in testing was the cause of the misalignment predictions, not due to a flaw in the instrument.

NASA installs natural gas line to make Kennedy Space Center a little 'greener'

Associated Press

KENNEDY SPACE CENTER — NASA's Kennedy Space Center today entered into an agreement with City Gas Company of Rockledge, Fla., a subsidiary of NUI Corp. of Bedminster, N.J., to design and construct a pipeline system and to provide natural gas for use at America's spaceport.

The agreement specifies that City Gas Co. will pay the entire cost of the pipeline, and that no government funds will be used for this portion of the agreement.

The 10-year agreement was effective Thursday and runs through September 23, 2003.

The multi-faceted agreement represents a major milestone in KSC's ongoing efforts to reduce energy costs and the center's reliance on petroleum-based fuels.

"Natural gas is routinely used around the country and has proven

to be both an environmentally and economically sound substitute for many of our current energy sources," said KSC Director Robert Crippen.

"This is a significant step toward making KSC a more energy efficient work place. I'm confident that this transition to natural gas will save millions of tax dollars in the coming years and decades."

Under the terms of the agreement, City Gas Co. will build an estimated 25-mile pipeline linking much of KSC with a main pipeline spur located near the Orlando Utilities Commission facility, situated south of the NASA Causeway on U.S. Route 1.

The pipeline will run along the public rights-of-way of the NASA Causeway and other KSC thoroughfares. Hydraulic dredging will enable the pipeline to cross underneath the Indian River, resulting in no permanent impact to boat traffic.

All aspects of the dredging opera-

tion will be coordinated with appropriate federal and state officials to assure minimal impact to the Indian River's ecosystem.

Construction of the pipeline will begin this fall and should be complete by mid-to-late 1994. Once operational, the pipeline will enable natural gas to be sent to a large portion of the space center where it will be used to fuel objects ranging from government vehicles to water heaters to entire facilities.

Natural gas will eventually be used for many purposes, but one of the initial roles will be in the area of transportation.

Officials are planning to convert 126 of the center's buses, sedans, vans and light trucks from gasoline to natural gas-burning vehicles by the end of 1994.

The dozens of four buses based at Spaceport USA, the KSC visitor's center, will be converted to natural gas beginning in 1996, and many of the center's forklifts and delivery

trucks will be running on natural gas in the years following.

By the end of the decade, it is estimated that natural gas will be the fuel of choice for more than 75 percent of the space center's 2,000 land-roving vehicles.

Among other benefits, KSC's switch to natural gas will result in a dramatic decrease in combustion emissions around the center.

By converting large hot water boilers, vehicles and miscellaneous other equipment to natural gas, the amount of sulfur dioxide and similar emissions will be reduced by about 99 percent by the year 2000.

The natural gas pipeline will also nearly eliminate the center's annual need for approximately 500 truck-loads of petroleum fuel.

A groundbreaking ceremony to commemorate the start of the pipeline is planned to occur within the next couple of months, and construction will begin immediately thereafter.

Orbiter Update

Columbia (OV-102)
The Space Shuttle *Columbia* is sitting on launch pad 39B with the Floating Service Structure in place around the orbiter. Work this week will involve the Auxiliary Power Units, the crew compartment and main engines in preparation for launch of STS-58. Managers will determine the exact launch date on Friday.

Endeavour (OV-105)
The orbiter *Endeavour* is in the OPF bay 1 where technicians are checking the remote manipulator arm and the Auxiliary Power Unit hazardous connections. *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 removing the payloads and inspecting the ceramic tiles for reentry damage. The Auxiliary Power Units are being inspected for anomalies. *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.

Columbia crew awaits launch go

➔ Flight managers on Friday will decide when to launch STS-58 on a life sciences mission.

By Heather Young
Staff Reporter

The second Spacelab flight dedicated to life sciences research will launch aboard Space Shuttle *Columbia* and carry with it a crew of seven.

The mission, designated STS-58, will see the crew perform a series of experiments to gain knowledge on the adaptation of the human body to the weightlessness of space.

The crew will perform experiments focusing on the cardiovascular, regulatory, neurovestibular and musculoskeletal systems of the human body. Some experiments will involve laboratory animals, including a complement of rats.

Commanding the planned 14-day mission is Lt. Col. John E. Blaha, STS-58 will be piloted by Lt. Col. Richard A. Seafoss, with mission specialists Rhea Seddon, M.D., Lt. Col. William S. McArthur, Jr., David A. Wolf, M.D., and Shannon W. Lucid, Ph.D. Martin J. Fettman, D.V.M., Ph.D. will serve as payload specialist for the longest shuttle mission to date.

Lt. Col. Richard Seafoss, USAF, and Lt. Col. William McArthur, USA, have collectively logged 5,200 flight hours, but STS-58 will each be their first spaceflight.

Dr. Martin Fettman, Dr. Shannon W. Lucid and Lt. Col. John Blaha are each making their fourth spaceflight, while Dr. Rhea Seddon will be blasting into orbit for the third time.

Once in orbit, they will be performing experiments that will provide the most detailed and



Wearing training versions of their launch and entry suits, the seven crewmembers assigned to the next shuttle mission (STS-58) are left to right (front) David A. Wolf, Shannon W. Lucid, both mission specialists; Rhea Seddon, payload commander, and Richard A. Seafoss, pilot. Left to right (rear) are John E. Blaha, missions commander; William S. McArthur Jr., mission specialist; and payload specialist Martin J. Fettman.

interrelated physiological measurements acquired in the weightless environment since Skylab flew in 1973 and 1974.

The crew is composed of an almost equal amount of first-timers and space flight veterans. Lt. Col. Blaha has been an astronaut since 1980 logging a total of 453 hours in space. Dr. Seddon has been an astronaut since 1978 and has flown a total of 218 hours in space. Dr. Lucid was chosen to be an astronaut in 1978, and since then has

logged over 502 hours in space. During their more than 336 hours in space, the crew will be using the Shuttle Amateur Radio Experiment (SAREX) to communicate with high school students in the United States and France.

Mission specialist McArthur, payload specialist Fettman and shuttle pilot Seafoss, will converse with students for approximately four to eight minutes as the shuttle passes over the schools' transmitting stations.

Quicksilver GT certified under new criteria for Sports Planes

Communication Resources Inc. Press Release

Temecula, CA - The Quicksilver GT 500 has become the first aircraft certificated by the Federal Aviation Administration under the new criteria for a Primary Category Sport Plane. The type certificate was presented to Quicksilver Enterprises at the EAA Oshkosh Convention.

"It was kind of a dark horse victory," said Quicksilver President Lyle Byrum. "A year ago we weren't even on the list, then we were 14th. Three months ago we were about 6th in line and in the end, we got through the process first." Byrum credits the extensive engineering and flight test data that had been accumulated on the GT 500 prior to review by the FAA for the expediency with which the certification process was completed.

The next step is the production certificate and Byrum was predicting completion of those requirements by November. By the end of 1993 the first complete, ready to fly certificated GT 500s should be coming off the production line. They will be usable for day/VFR flying as well as for commercial applications like flight training and rental operations. Base price for a GT 500 will be \$25,000.

The company will continue to market kits for the GT 500, and if future builders follow company guidelines, they can receive the same certification

for their projects that is granted to the factory for its ready to fly copies. A builder would save about \$4,000 for the 150 hour investment in construction.

The costs for certifying the GT 500 ran about \$20,000. "What you have to add on to the certification costs, are the costs that go back to the beginning in designing the aircraft to an airworthiness standard," said Byrum. "That adds about \$400,000."

In addition to lengthy review by the Structures Division of the FAA, four members of PM's manufacturing division, three PM test pilots, one FM systems specialist and an FM project director spent five days examining a GT 500 in Chicago. Randomly selected parts were checked for conformity with drawings. Every number in the structural analyses was examined, and they flew the GT 500 to verify flight test data regarding speeds, handling and stability. "Nothing was overlooked or taken for granted in the five reports we presented on loads, structure, flight testing, weight and balance, and engine and drive train system," said Byrum. "I also don't believe they asked for anything unreasonable. Their motivation was to assure safety."

Byrum sees the GT 500 as a new way to access sport flying. "It's recreational flying that's going to give general aviation a future...if it's to have one. This is not an aircraft for IFR flying. It's for exploring, having fun, and turning a weekend into an adventure. It's simple, grassroots aviation."



photo courtesy of Communication Resources, Inc.

The Quicksilver GT 500 has been certified by the FAA under Primary Category Sport Plane criteria and is available in kit form or ready built from the company for an additional fee.

DeLand Skydiving Championships



The National Parachute Championships took place at DeLand this past week. Skydivers from all over the country assembled to compete on an individual and team basis. Here is a good example of the sort of activity that went on throughout the week at the competition.

Trade News...

C-17 marks second anniversary

EDWARDS AIR FORCE BASE, Calif. — The second anniversary of the first flight of the U.S. Air Force/McDonnell Douglas C-17 Globemaster III transport was observed here yesterday (Sept. 15) as the C-17 flight test program reported impressive second-year accomplishments.

A year ago, on Sept. 15, 1992, flight test hours for the then four-aircraft fleet totaled 511 hours on 146 missions.

Critical flying accomplishments recorded during the past year included:

- the first night flight.
- first C-17 airdrops — including that of a single 42,000-pound platform, a load heavier than a normal C-130 load.
- day and night high-altitude, low-opening (HALO) parachute drops.

William Casey, McDonnell Douglas' chief test pilot for the C-

17 program, piloted the Globemaster III on its inaugural flight. "Two years ago the airlifter was an experimental aircraft that was very easy to fly, and it has come a long way since then," Casey said. "It's been a pleasure to see its nature and the systems come along. It's not an unknown any more. We are fine tuning it." "During the past two years, we have completed about half of the C-17 developmental testing. Most of the basic flight envelope has been opened, and we are well into testing the airdrop and avionics systems," said Lt. Col. Kermit Rufsvold, director for Test and Evaluation, C-17 Combined Test Force at Edwards Air Force Base. "The electronic flight control and avionics systems have been easy to update with software enhancements. Software improvements are implemented and the aircraft is maturing well."

The pilots are generally pleased with how the aircraft handles," Rufsvold added.

Honeywell reorganizes commercial division

PHOENIX, ARIZONA — Honeywell announced today a reorganization of its Phoenix-based commercial aviation business and new posts for two executives.

Don Schwanz has been promoted to vice president and general manager of Air Transport Systems Division, based in Phoenix.

He replaces Jerry Vandervoort, who will become vice president and general manager of the Military Avionics Division in Minneapolis. Vandervoort also will lead Honeywell's sensor-based navigation business, which develops and manufactures navigation products for aircraft and spacecraft.

Both the Air Transport Systems Division and the Military Avionics Division are part of Honeywell's Space and Aviation Systems Business, also headquartered in Phoenix.

John Dewane, president of the Space and Aviation Systems Business, also announced a reorganization of the company's commercial aviation business. The change eliminates a level in the commercial aviation business, formerly called the Commercial Flight Systems Group. The two divisions comprising the group — Air Transport Systems and Business and Commuter Aviation Systems — remain intact and now report directly to the Space and Aviation Systems Business. Mike Smith continues to lead the Business and Commuter Aviation Systems Division as its vice president and general manager.

"Our goal in eliminating the group structure on the commercial side of our business is to streamline our organization and become more efficient and more competitive," Dewane said.

Editor's Note:

In last week's Avion, the front page story on the FA495 Canadair Regional Jet option misquoted the number of hours in the training program. The actual number of training hours is 50.

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Critic's Corner:

Evil prevails and darkness rules in *The Good Son*

The Good Son

Starring: Macaulay Culkin, Elijah Wood
Rated: R
Rating: ★★★
Length: 1:20
Playing: UA Volusia 4-9

By Keith Towers
Movie Critic

It's hard to rate a movie on just shock value, but The Good Son would rank high up on the list.

Culkin plays the epitome of the bad seed on an extreme sugar high on his way to rid the world of all that annoys him.

That is just the beginning, however, as Culkin plays a game of 'snap the whip' on ice skates that lands his sister in the hospital. His

sister, played by Quinn Culkin is yet another one of the Culkin children trying their hand at show business. Might it have something to do with their parents? Nah, can't be.

Culkin goes to pay a visit to his sister in the hospital that did not have very well meaning intentions.

In one of the finest climactic endings to a movie, all is saved and life returns somewhat to normal.

The performances were all quite solid and believable. I know if kids were as effective lying in real life as Culkin is in this movie, there would be many parents out there believing that the dog really did break the window, or the neighbor did burn the house down.

Quinn Culkin does an effective job playing the amiable kid sister and if she liked being in the movies, we'll probably see her again many times.

Wood was very solid in his role. Nobody believed him as he tried to tell people the truth about Culkin, but then again Culkin seemed to be always one step ahead of Wood.

Wendy Crewson plays Culkin's mom with great feeling. She is mourning over another tragedy she had earlier which she blames herself for. It wasn't her fault as you later find out in the film.

To talk about the directing for a minute, Joseph Ruben put together a decent movie. He meshed the action scenes together well and the direction in the final scene was very well done.

He also chose a great setting for the cold, wintry film. The dream house on the cliffs leading to the sea has been a classic spot for many a dark thriller.

All in all, I liked the movie, although it won't be a classic of any sort. I gave it three stars, but I would stress that the movie should not be missed on the big screen.

I do have a complaint, however. It has to do with the inadequate facilities at the UA theaters. They have staggered seating which is a great idea, but for some reason they chose to cram you as close as possible to the person in front of you.

Hint: wait for the dollar movie.

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

Toni Braxton's latest album is the stereotypical crying female

By Brian Gamage
Spice Tech Editor

Joy, Take a half cup of Whitney Houston, mix in a package or two of Janet Jackson, and just a smidgen of Mariah Carey, simmer in generic synthesized beats for about an hour and presto, you have the self-titled debut album from Toni Braxton.

Braxton bursts onto the music scene covering territory that has been overcharted and beaten to death by music artists like Houston and Jackson, offering nothing new to the easy-listening R&B genre.

In "Another Sad Love Song," she sings of the power of a sad song to remind people how much they might miss someone who is far away.

"Breathe Again" has Toni crying about how she wants her boyfriend back and that "If love ends, then I promise you...I shall never breathe again."

My question is, what did he leave her for? She looks pretty hot on her CD cover, so he must have a good reason to leave that—she screwed up I guess.

She makes no sense in "Seven Whole Days," where she hasn't seen her boyfriend for, yep, you guessed it, seven days. She misses him like crazy but decides to dump him and be alone.

Actually the next few songs can be summed up in "I love you, I miss you, I want to sleep with you, you're right for me, I'm right for you, you don't care about me enough, I like it



Toni Braxton bursts onto the music scene with her self-titled debut album, most of which is just some woman crying about boyfriends and, well, boyfriends.

when you kiss every part of me," and so forth and so on.

But the really funny thing about these songs is that they reflect the huge amplitude of mood changes that some women exhibit.

In one song she'll be hailing praises that her boyfriend is perfect and makes her feel so good and in the next song she'll be crying about how much of a loser he is. Now, either in the course of making the album she changed boyfriends four or five times or every week or so she felt differently about the same guy. I say it's a tossup.

There is very little difference in beat, rhythm and style from one song to the next, which is characteristic of past productions by Babyface.

I'm not even going to talk about the rest of the CD. The first nine minutes or so are the only bearable parts of this album, unless you like hearing some woman cry about love for an hour.

Once this CD was over I could breathe again and not listen to it for considerable more than seven whole days.

Bad news for Baby Animals

By Gregory Lee
Aerovox Editor

As far as this reviewer is concerned, the Baby Animals should stay in their pens until their musical style matures a bit.

I say this having been exposed to a number of Australian bands such as INXS, Midnight Oil and AC/DC. Baby Animals don't offer the same quality of free wheeling rock'n roll sound we've come to equate from Down Under.

The entire album with the exception of two songs tends to have a ho-hum quality to it. The songs seem to sound the same except for the words which don't tell a story or even relate any relative experience to the listener.

One song however does redeem the album "Don't Tell Me What To Do." This song has the rock sound that they should pursue.

The album was produced by Ed Stasium but the interesting thing on the album cover is that Nuno Bettencourt produced two of the songs.

The lead singer, Suze DeMarchi, has some background in the English



Baby Animals is (from left) Frank Celenza, Dave Leslie, Suze DeMarchi and Eddie Parise. They represent all that is childish in an animal.

music scene after having spent some time over in England. Some of this experience shows up in her singing

style. All in all the album comes off as weak but the band has some potential in the future.

Daytona nightclubs offer fun for all

By Scott Augustus
Staff Reporter

I hate country music. A lot. I don't like it at all. I know lots of people that hate country music. Some people hate it more than I do, and that scares me because I know how hateful I can be.

However, this is part of what makes living in Daytona Beach so worthwhile. Some people like the music (you know who you are), and for those people, there are night clubs around where you can hear it.

You can hear any type of tunes, as long as you know where to go and what night to go on. The incoming freshmen at Embury-Riddle probably have pretty diverse tastes, and I assume lots of them don't know where to go to find something they like.

No article on night clubs would be complete without an in-depth, detailed description of the Coliseum, which is on Beach Street.

English class or everyone you've ever met at ERAU, because this is the place to be for most. Give the Coliseum credit, because they know what sells - finding the Coliseum "dead" is a rare feat.

The Coliseum likes to please everyone, so they offer different themes on different nights. On Friday and Saturday, expect to hear lots of techno/dance music, bits of light progressive music, and some Top-40 trendy stuff.

The Coliseum calls Sunday night Progressive night, but don't be fooled by the word "progressive" and instantly think Pearl Jam. The music is a mix of old and new alternative, with some hard industrial thrown in.

Maybe the best thing about the Coliseum is that if you detest the music, you can stroll next door to The Spot, a typical sports club. There you can listen to mellow music, watch something entertaining on their TV sets (I saw Monster Trucks once!), and shoot a game of pool or two.

To most Riddle students, every other club in Daytona is just another club. One club highlight is 701 South, located on AIA, and this is where you should be if you want Pearl Jam and Stone Temple Pilots. They have live local bands during the week, and cap off the week with "Sunday Bloody Sunday."

At Razzles you'll hear some popular music, and you'll hear more house and rap music than anywhere else.

Finky's is - you guessed it - country, country, country! Besides that, I don't know much about Finky's, except that they offer line dancing lessons on certain nights.

Spanky's and GB Razzies are fairly similar to each other. They're both sports-oriented, like the Spot, but they play popular music and have a dance floor.

Spanky's also has pool tables and offers karaoke on certain nights. If you're in the mood to utterly humiliate yourself (again, you know who you are).

No matter what your tastes in music and night clubs are, Daytona has something that can make you happy.

Last Splash is the Breeders latest attack on the charts

By Steve Mendrzychowski
Staff Reporter

I had every reason to believe that I would like the Breeders new album, Last Splash. For one, their last release, the Safari EP wasn't that bad. It had a couple of really great songs on it. This gave me the impression that the follow-up album's songs would be even better.

Another reason I thought I would like it was because Kurt Cobain, the mastermind behind the ever popular band Nirvana, declared in various interviews that the Breeders were his favorite new band in the music scene.

Most of all though, the group's lead singer, Kim Deal, was once the woman whose soft feminine background vocals offset the very angry, throaty lead vocals of Black Francis in the now defunct band, The Pixies.

Unfortunately, this band,

which started out in Boston, broke up shortly after gaining popularity by opening up for U2 on their recent "Zoo TV" world tour.

With all this knowledge, and with all the pre-release hype I read in various magazines about how great Last Splash would be, I could not wait for it to come out.

Now, all I can really say about the album is that it is pretty good, but since my expectations were so high, I thought it could have been much better.

Filled with lyrics that are at the extremes of obscurity, the songs are very distortion-filled and guitar oriented.

The sound has many qualities that are similar to the neo-beach surf music that the Pixies once played.

The themes to the songs, staying light and simple, have a "girls just having fun" feel to them. If you are looking for music that has themes that tackle

heavily controversial issues, this is definitely not the album for you.

Actually, if you can imagine the Pixies' songs sung by Kim Deal instead of Black Francis, you have a pretty good idea of what the album is like.

Comprised of a total of 15 songs, including some short, impressive instrumentals, Last Splash has one song that stands out above the rest because of its very original, catchy rhythm. The guitar and bass riffs make the song, since they are so hypnotizing.

The song that I am referring to, "Cannonball," is their first release. This is definitely a song that can easily get stuck in continuous rotation in your head.

Songs that are not as likely to jump out at you the first time you hear them, but nevertheless are pretty good and worth mentioning, are "Do You Love Me Now?," a song many college stu-

dents can unfortunately relate to all too well, about long distance relationships. This song also appeared on their previous EP, Safari.

Other songs like "No Aloha," "Hag," and "Divine Hammer" will definitely not disappoint die hard fans of the Pixies.

As I said before, I thought Last Splash would be much better than it was. I had to realize that by making Last Splash, the Breeders weren't going all out to make an album of epic proportions. They just wanted to have fun and share it with everyone else.

It is this kind of attitude that unfortunately is missing in many of today's bands. This is definitely not the album that will help the Breeders break through the popularity barrier, but it will bring them close.

Since Last Splash has already risen to the top of the modern rock album charts, it is definitely not an album to just be forgotten about.



The Breeders are currently at the top of the College charts.

Software Review:

The Emperor needs your help

By Ronald Hess
Data Technology Editor

"Brother Marines. We face a cruel and unrelenting foe. They have no honor. You must destroy the evil. One Squad is available for your command. The Emperor has dictated your squad's weaponry. Let the litany begin."

Thus begins your squad's mission into the bowels of a derelict space hulk.

Space Hulk is a sci-fi shoot 'em up game based upon a board game created by Games Workshop. The Space Hulk games are a spin-off of Warhammer 40,000.

In Warhammer 40K, an Emperor is trying to re-unite humanity after a cataclysmic event threw all human life into disarray. Radical legions of brave men have gathered to fight in the name of the Emperor. These men are called space marines.

Space marines fight in combat armour much like the knights of times long gone. The difference is the marines have storm bolters and heavy flamers to destroy their foe. Of course, the foe is fighting back with four arms that have strong hands and sharp claws.

A few special marines have the great opportunity to wear the legion's terminator armour. This armour gives the marines a better chance of surviving the vacuum of space. Wearing the armour is a great honor, but of course it means the wearer will be performing hazardous duties.

Space hulks float around through space, traveling from location to location via warp holes. Encounters with these abandoned crafts have proven fatal. Strange creatures with four appendages and a healthy appetite have been found to inhabit these ships.

These aliens are called genestealers. They travel around in space hulks in the hopes of encountering

human civilizations. The genestealers attack humans and inject a unique gene inside the victim.

The space marines cannot let this happen. Donning their terminator armour, squads of five terminators board and search all encountered space hulks looking for genestealers. The Space Hulk games re-enact the battles between marines and genestealers.

Computer game play is focused around control of one or two squads. Players may select basic and advanced tutorials to familiarize themselves with the games' controls. The advanced tutorials offer an excellent challenge.

Gamers also have the option of playing one of the six scenarios from the board version or a number of pre-designed missions. A Deathwing campaign is also provided.

Once the player has selected the mission, the screen changes to the ready room, where a brother marine provides the background. Those gamers who do not have a sound card can still hear the solemn words from their leader.

Gameplay consists of one large viewing screen boarded by four smaller screens and flanked by a map and control pad. The viewing screens represent the view from each of the five marines in the squad.

The map represents a lifeform detector to help locate marines and aliens. Clicking on the map replaces the entire screen with a tactical display. This is the view seen by the lieutenant, the guy in the safe seat who guides the marines. Here, commands can be given to each member in each squad. There are either one or two squads depending on the scenario. Marines can be told to move, fire and to open and close doors.

Switching back to the viewing screens brings a comment from a fellow marine. These range from "Marines fight with honor" to "Let's get moving."

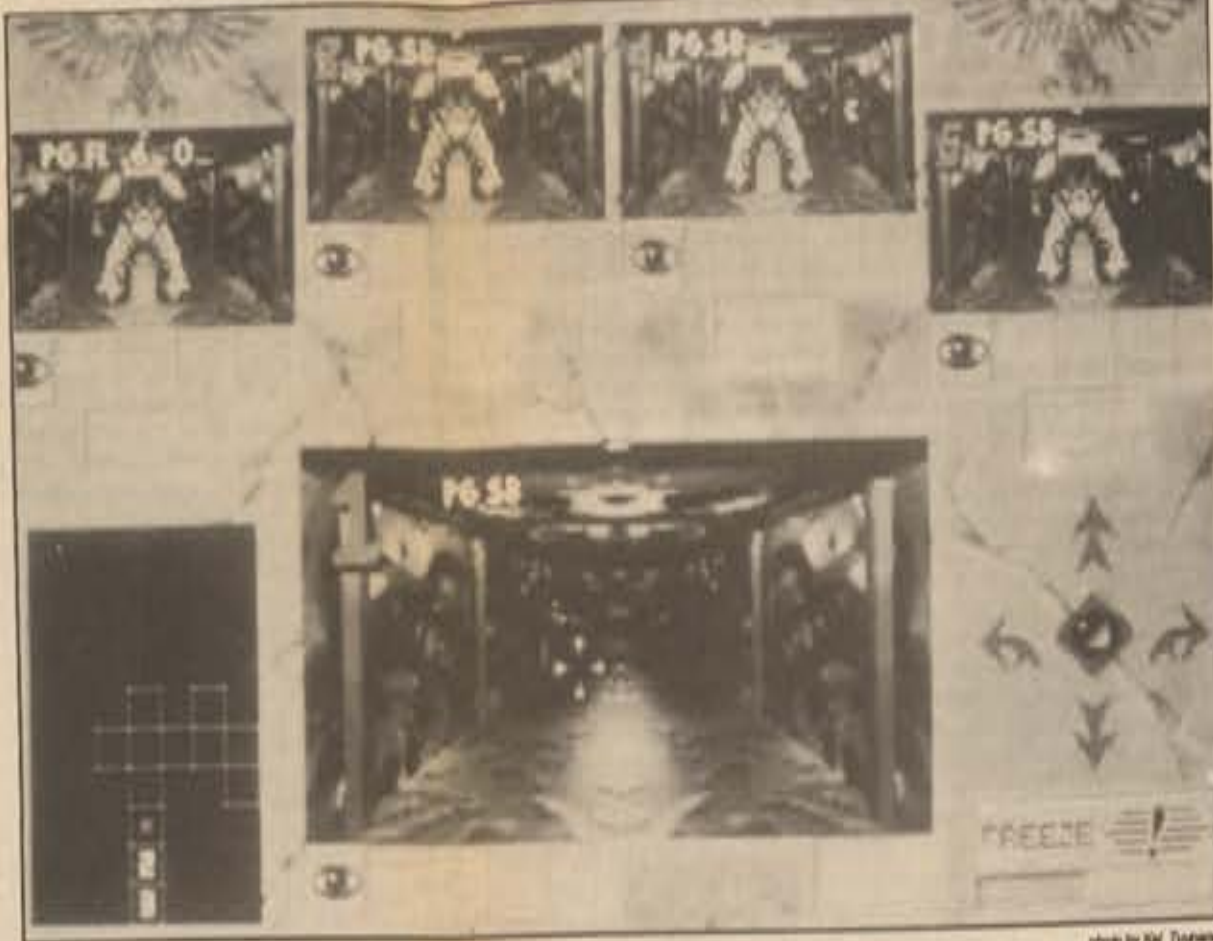


Photo by Neil Tait

Space Hulk depicts the battles between space marines and genestealers. The game is fast paced and furious. Excellent graphics and sound add to the sense of insecurity as terminators search derelict hulks in search of their honorless foe. This game is not for the faint hearted.

Switching between marines is accomplished by right-clicking the view screen of the marine you want. The function keys will also alternate among each of the terminators.

Movement is done a number of ways. Arrow keys can move the marine forward, backward, left or right. The same thing is accomplished by clicking the arrows on the right side of the screen. Moving the cursor across the border of the main viewing screen will also display movement arrows.

Firing is accomplished by moving the targeting cross-hairs, with the mouse, and clicking. Yes you can shoot your brother marines, but no, you cannot hurt them. Believe me, they have enough to worry about. And no, you cannot blow holes in walls.

Play on computer and board games are very similar. The board is comprised of jigsaw sections that represent the hulk. Plastic figurines

are provided to add depth and dimension. A timer is added to the marines' movement and decision periods to represent the accelerated movement of the aliens and the reaction time of the marines. Combat is decided by the roll of dice.

The computer version is almost as fast and furious as the board game. The computer does offer a freeze button to halt play, especially if one of your marines is about to be chewed on by a genestealer. In the board game, your foe tends to be less relenting. The computer version is also significantly more gruesome.

Gameplay depends significantly on what machine the game is run. The largest drawback of slower machines is response time. Unfortunately, quick reactions to events are necessary in this game. As mentioned earlier, sound and speech are available through the PC speaker. It did seem that sounds

slow the game down somewhat. If you are playing on a 486, you will not notice a difference.

The Space Hulk computer version is an excellent representation of the board game. I enjoy playing, especially when I do not have the time to set-up the board or to find an opponent. You might have noticed that the background sounds familiar. It reminded me of the Alien trilogy. In fact, the computer game reminds me of an old Commodore 64 game

Space Hulk

System requirements:

- ✓ 386SX16 or higher
- ✓ Hard disk
- ✓ VGA or SVGA display
- ✓ 384k of RAM or Higher
- Optional Equipment:
- ✓ Mouse or joystick
- ✓ Sound Card
- Suggested retail price: \$49.95

Feds study encrypting software

Associated Press

SAN JOSE, Calif. — A federal grand jury is investigating exports of a controversial computer program in a case that could affect how software is distributed worldwide.

U.S. Customs officials asked for an investigation into ViaCrypt of Phoenix and Austin Code Works of Austin, Texas, and the companies' plans for foreign distribution of software, including PGP, a program that turns data into an indecipherable code using encryption technology.

William Keane, an assistant U.S. attorney, confirmed that an investigation is continuing, but declined to comment on the case.

The PGP program has been distributed worldwide over computer networks by some computer enthusiasts who oppose the U.S. government's trade regulations on encryption.

The National Security Agency, which monitors international communications, has supported strict encryption technology export regulations, arguing that it would be difficult to keep tabs on hostile governments and foreign terrorists.

But opponents say the restrictions hurt sales and violate the First Amendment that protects the right to publish information about encryption.

"I wrote PGP to make democracy healthier. I didn't do it to make money," said Phillip Zimmermann, a computer consultant who developed PGP.

"We believe everything we are doing is above board and well within the law," said ViaCrypt president Leonard Mikus. He said the company had no intentions of violating export regulations.



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2 Small Cheese Pizzas w/1 Topping plus 2 Cokes

ETA

By Jennifer Bailey

Vice President

This semester plans to be a busy one for our organization. Our major project this semester will be the publication of *Creations*, ERAU's prestigious magazine of visual and literary arts. Last year's issue was a success, and we anticipate this issue could be even better. Between now and the deadline for submissions, (Oct. 15), we will need everyone's help in distributing fliers and otherwise publicizing the magazine. We hope to sponsor another short story contest, similar to the successful one held in the spring, in part to gain further entries for *Creations*, as well as to publicize the magazine and the club. Once the submission period is over, we will once again need our members' support in the editing process to ensure a professional outcome.

Any student, faculty, or staff member is welcome to submit work to be considered for inclusion in *Creations*. Entries will be collected in the *Avion/Phoenix* office between now and October 15th. This date is only a few weeks away, so if you're interested, we urge you to keep the deadline in mind.

We now have a permanent meeting room, Spruance Hall room 1. Meetings will be held there every other Monday at 6:00 P.M. The next meeting is scheduled for Monday, Oct. 4. We ask that all our members please attend this meeting so we can get moving on these projects. Also, we're trying to decide on a trip for this semester, so bring your ideas. Any other students who may be interested in our organization are encouraged to attend.

AHP

By Dominick J. Dunnigan

Historian

Fall rush has come and gone. All the Brothers of Alpha Eta Rho would like to extend a special thanks to Rich Robitaille for organizing the rush agenda and making it a success. First interviews were held last Thursday, and bids were extended on Sunday. We are very pleased to announce that there are 19 pledges in the Beta Omicron class. The pledge period officially began last night after their first meeting.

We would also like to welcome Alumni Brother Jim Kieran from Bridgewater State University. He has recently moved to Ormond Beach and will be spending time with our chapter while attending

classes at ERAU.

Alumni Brother Scott Roper was in town last week. Scott landed a job with Delta Airlines in October 1991 and is currently a First Officer in a Boeing B727. He gave a two hour presentation in the University Center to help students be successful as professional pilots when they graduate. Scott is a 1987 Embry-Riddle graduate and pledged Alpha Eta Rho in Fall 1983 with the Tau pledge class.

Some Brothers of AHP will be participating in a walk-a-thon this Saturday. Donations will benefit the American Heart Association.

Trivial Hint: While flying "Joe Crawford's Way", be certain NOT to check any luggage!

Best wishes and GOOD LUCK to Beta Omicron pledge class!

Rugby Club

By Jason Richter

Club member

In the sweltering afternoon heat of September 18 the Daytona Beach/Embry-Riddle Rugby Club won its second victory of the season against Jacksonville. The final score was 17-12, and this puts the Club's record at 2-0. This was entirely a "B" side game, meaning that all the players on the field were Riddle students, and many of them played outstanding rugby considering it was their first game.

The Club, however, has a tough schedule ahead starting with its next opponent, Palm Coast. They are a very strong and seasoned team so it should prove to be a very challenging match for Riddle. Also, the only

home game of the season is still on for October 9 at Riddle field. Kick-off should be at 1:00 PM so start making plans to show up for the game and support our team. Anyone who comes to watch the game and wishes to follow the teams to the after-game party at one of the local bars is welcome to come along.

As far as the last after-game party goes, Jacksonville didn't play the very good host as home teams should. They certainly provided the beer, but they wouldn't sing us any rugby songs as tradition goes and they didn't appreciate our Zulu Warrior strip tease. So, we drank their beer and left for Daytona to party on the rest of the night. Our apologies to the Paradise Inn hotel staff for having to clean up the room we thrashed that night.

Stumpjumpers

By Shaun Garvey

President

The Embry-Riddle Stumpjumpers traveled to Ocala a couple weekends ago with about a dozen mud-hungry mountain bike enthusiasts. Everyone involved, ranging from experienced racers to first time bikers were thrilled with the challenging terrain the Ocala Motorcross Complex had to offer. The 100 acres of land included difficult single track, steep climbs and radical descents as well as some great "air-catching" opportunities on the motorcross course which comprises some of the race terrain. After a long day of tearing through the trails everyone was pretty tired and muddy, yet really gonzo

about having such a great place to ride in Florida. Not being well known for its mountains, many were surprised to see such good trails. Kudos to Ocala for making available an area which proves worthy to professional caliber racers.

Other areas the Stumpjumpers will be "Stumping" are Brooksville, Arcadia, Gainesville and Jacksonville as well as several locations right here in Daytona Beach! For more information on Riddle's newest club, ride over to their first meeting, Friday October 1, at 5:00 p.m. in the Endeavor Conference Room (upstairs in U.C. next to Career Center). Just look for the big sign, and lots of bikes and people! Or contact Shaun Garvey thru box 6436.

Aerospace Society

By Matt De Vitto

Historian

We will be collecting dues this week, \$5.00 for the semester. John Ippolito, a speaker from McDonnell-Douglas, will be at the meeting

tonight speaking about the Space Station Processing Facility. Don't forget the trip to Wet 'n' Wild on Saturday, October 2nd. The cost for the trip is \$13.00 and we will leave at 9:00 AM from in front of the library. See you at the meeting tonight at 7 PM in room E-611.

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.

Sailing Club

By Bryan Rosko

Public Relations

Happy greetings to all! There were some good times had last weekend at the old Sailing Center. Everyone seemed to have a great time- whether sunning on our beach, racing the sunfish, or just exercising that forearm. The catamaran test run was successful, as it survived the weekend with only minor duct tape repairs. Offshore here we come! NOT.

I'd like to honor our new officers and all the dedicated individuals who made the opening weekend a success: Jason Tobin is the Vice-President of Sailing- so bug him if you want to learn, Mark Shannon

(the guy that looks like Kiefer Sutherland) is Vice-President of Windsurfing, Manak Egeburg (who drives around with pole-vaulting poles on his Beretta) is the social coordinator, Leyla McLendon (who works in the efficient flight department) is Treasurer, Nathaniel Natoli (expert Javelin skipper) is the Secretary and James Irmiger is a wannabe Embry-Riddle student that helps out a lot. Also thanks to Dr. Jim Cunningham for making the runs and providing the killer UltraCat.

If you are interested in the club and didn't make our meeting, call me at 257-4370 for info, a ride, directions, or a clue. See you next week!

ΣΧ

By Jim DeForest

Chapter Editor

Rush turned out to be a great success. We all owe our thanks to Mark, brother of the week, for doing a great job. Formal rush was the icing on the cake. Thanks go out to all the brothers who participated and helped out in the rush events. There has been a lot of talk about Greek week that will be taking place in October. The time is now to start preparing, because we all know who is going to emerge on top. Let's also

give Matt our cooperation with our intramural activities. There is a lot of work to be done, so let's get with it and tear up the competition.

Delta Chi looks like they're getting a little soaked over there, let's keep it that way. We're looking forward to our Around The World party and our canoe trip with the Alpha Xi Theta's.

Biff, placenta again? Bones, leave the drums alone. Yes, there was a wild Beaver swimming in the pool after last week's party; thank God qualified brothers were at hand to control the situation?

A.A.A.E.

By David Ziemer

Activities

The American Association of Airport Executives would like to welcome everyone back for another year. We want to extend a special welcome to all the new members. The A.A.A.E. is the largest professional organization for airport executives in the world. The primary

goal of the association is to assist airport executives in fulfilling their responsibilities to the airports and communities they serve. The Embry-Riddle chapter has many activities planned. Don't miss our trip to Jacksonville International Airport. Our next meeting is Wednesday at 7:00 p.m. in the Student Center Conference Room, next-door to the Student Activities Office. New members welcome!

ΔΧ

By Bill Tallman

Public Relations

Oh what a week it has been. (Like always). To hell and back in a canoe. Hey Fourre, How did you chip that tooth? Nevermind. In the future, we will be holding a screening of "Deliverance" prior to all canoe trips, just as a reminder not to talk to strange rednecks on riverbanks. Hornsby, WHOA Who said that? Spiderman ain't much better.

In light of the recent attempted homicide, we will be digging up the volleyball court to fill sandbags in the front of the house. See Marmaduke for ammo and instructions if necessary. Fight Crime, shoot straighter. Speaking of shooting, reports from the water-balloon front indicate that talks have not

brought us any closer to a cease fire with Sigma Chi. Hey Nevians-Gotcha Twice Brother Tatum is up to his usual antics, chronically unable to remove himself from harm's way. We will miss you when you go. And we were just about to sign you up for the workshop to identify healthy relationships. Oh well. Why is it that Badger is bleeding all over the Penthouse? Is this some sign of weakness? Tallman thinks so. In closing, good luck prospectives. Tonight's the night that you put your first foot forward in joining The Brotherhood of a Lifetime. Here is our final thought that we would like to leave you with:

Popeye doesn't have any rust on his pipe, because he lays it in Olive Oil at night.

ERFSEDS

By Eric L. Goss

Public Relations

Thanks to everyone who came to the BBQ this past Saturday. We hope you enjoyed it. The final roster is in, but if anyone still wants to join please come to our next meeting. It will be on Tuesday, October 5th, at 7:30 p.m. in the Endeavor

Conference Room.

This Sunday, October 3rd, we are planning a car wash at the Texaco on the corner of Beville and Ridgewood. Please stop by and help support ERFSEDS. Our next planned trip is to Space Camp on the 9th. We will be sending out more information on that. Hope to see you at the next meeting.

This Week's Movie
Last Action Hero
Thurs. 8:45 pm in the U.C.

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Accelerated Private Pilot 03	10/18/93	11/03/93	6:00-9:00 PM	MWF 30 Hours
Instrument Pilot	10/05/93	11/04/93	6:00-9:00 PM	TR 30 Hours
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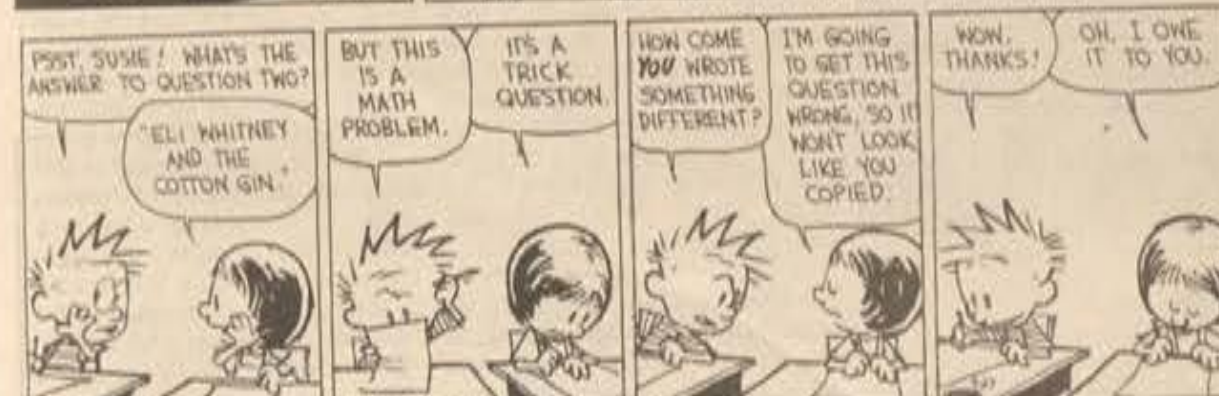
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by Dana Summers



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1985 Oldsmobile Royal Brougham 1.5 Excellent condition, well maintained, black, tinted windows, must be seen. \$3650 obo. Call Helene David at (904) 760-0973.

1988 YUGO Cheap, Reliable, Transportation. 34 m.p.g. Very low maintenance, new tires, only \$800. Call Carl 255-1209

Bad Bike!! 1984 Yamaha XT600 7000 miles Excellent for street, dirt, or beach use. Very fast. Contact James Hotelling 258-6618 \$1200 obo.

1988 Ducati 750 Paso Ltd., White and black, NCR Pipe, fresh MPI7 on rear, new chain and rear sprocket. \$4000 obo. Call Dan at 407-264-1342 in Titusville.

Roommates

Roommate needed! Beautiful 3 bedroom house in Port Orange. Non-smoking, clean and neat person preferred. No Pets! Call Beth 322-7604 for details.

Looking for a clean roommate to share a 2 bed 2 bath Apt. in Cypress Landings Apartment. Rent \$263/month + 1/2 utilities. Please call Joel at 258-3249.

Roommate needed, female preferred, share 3 bedroom. Room of your own @ \$220. Visiting Apartments. Contact Kiyoko or Matthew @ 274-5864.

Roommate needed! For Spring '94. Plan ahead! Get settled in before Christmas! Female, non-smoker, no pets. 2 pools, tennis courts, laundry facilities. 2 bedroom, 1/2 rent, electric and phone. Call 238-0427.

Plans to share. Very nice three bedroom, home to share with the owner and one other Embry-Riddle student. Nice neighborhood five minutes from school. Full house privileges \$280 per month plus 1/3 utilities. Call 258-2287.

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Books: MS 201: Management \$30; IITU 221: Reporting Tech. info. \$20. Draft kit \$35. Call 248-0651.

Waterfilter, water treatment unit easy installation - Hooks up to faucet. Good for kitchen and bathrooms. Normally \$130 must sell, moving overseas \$30, call Helene David (904)760-0973.

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For sale- 12 speed Touring bike "Sublim LeTour." Front and rear quick release, 41/30 Chrome Moly frame, Dia/Comp brakes and toe clips. Top quality with a life time guarantee. \$175 obo. More details? Call Charles ... 274-2722.

Radical Mountain bike design. 1993 Cannondale Delta "V" frame set includes: frame with air oil front shock, stem seat post, seat, etc. \$500. 8 am-11:30 am or after 6 pm. Charles R. Lawrence 756-5773.

Mountain bike for sale. Giant Sedowa w/ RST 200 front shock and XT components. \$300. Call 756-5773 between 8:30 am-11:30 am or after 6:30 pm. Ask for Charles Lawrence.

Sheet RP200 motorcycle Helmet visors. Blue Uridium tinted - \$15. Smoke tinted - \$13. Call Eric at 756-6645 page 248-5947.

For sale: One hunter ceiling fan, barely used, with light \$40 obo. Numerous ceiling fan lights \$10 each obo. One brand new 4 binder leather flight bag. Never used! \$160 new going for \$130. Contact Pete at 255-8855.

Miscellaneous

Flagler County Airshow: For tickets and information call Mike at 322-0330 or Jason at 253-3826.

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Like to Ski? Ski party at the Poconos! Jack Frost and Big Boulder day and night skiing. Trying for group discount rate. December 29. Contact Chris Pyle 6809, Todd Hyland 6804, or Doug Peterson 6804.

Personals

IN RESPONSE TO "WHAT IS LOVE?" Love is a dream that you never want to awaken from, for if you do, love is what hurts you the most when it's gone. THE NAVIGATOR

TO ALL THE SEXY SIGMA PPS, To quote Jimmy Buffet: "Let's get drunk and screw!" Love always, YOUR TWO FAVORITE RIDDLE BITCHES

BALOO, Get a haircut. (Please) I'll pay for it, OK? CASPER

DEAR GEEK, "Meow" LOVE, MEOW

To all the wonderful, sweet people who helped me while I was on crutches-Thank you!

The wise old owl says money is relative. The more money, the more relatives.

HEY REDHEAD: Run into any psychos lately? I really think we need to do ice cream this week. I know a good match for you-Just don't act like your-self! HAIL.

Do you think we are fools? We will lead on the sun at NIGHT!

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