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SPACE TECHNOLOGY

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Inside Section

Endeavour returns to KSC with mission of firsts "Noah's Ark" makes picture perfect landing on second landing opportunity

By Joshua S. Mussaf Sparse Technology Editor

ly completed an eight day flight with miles of the landing facility.

a picture perfect landing on Sunday, September 20. Endeavour was waived off its first landing opportu-Kennedy Space Center - The nity at 7:19 a.m. because of con-Space Shuttle Endeavour successful- ceras of rain showers within 30

Gibson was later given the go shead for a deorbit burn to the Kennedy Space Center (KSC) at 7:53 a.m. by Mission Control, in Houston, Texas,

Commander Robert "Hoot" the weather would cooperate for for post-flight deservicing and of the drag chute system. Phase I Endeavour's maiden KSC landing.

The second landing opportunity at KSC on Sunday was at 8:53 a.m. on orbit 127, Controllers gave the go after controllers had determined that ahead after Chief Astronaut Dan Brandenstein, flying the one of the Shuttle Training Aircraft (STA) radioed that conditions at the landing site were acceptable, after flying multiple approaches during the early

morning hours. The landing opportunity brought Endeavour entering Florida airspace north of the gulf coast city of Crystal River and continued east over Orlando and Titusville before making its final flaring maneuvers bring the shuttle down on runway 33. Endeavour's main gear touched down at 8:53;24 and the vehicle came to a stop at 8:52:11, a mission duration of seven days, 22 hours, 31 minutes and 11 seconds. Endeavour logged more than 3.3 million miles.

Several hours after landing. Endeavour was towed to Orbiter Processing Facility (OPF) bay one

derous twin sonic booms.

Minutes before landing, Endeavour

made its arrival known with its thun-

carry a Tracking and Data Relay Satellite on a six day mission.

Upon reaching the OPF, time critical experiments were removed from the orbiter. This included the four adult frogs, two Japanese carp, 7,600 flies, 30 fertilized chicken embryos, 180 hornets and 400 tadpoles that were conceived and KEAS. hatched in orbit - a space first.

After a preliminary inspection, the shuttle recovery team indicated the vehicle was in good condition and sustained only minor damage. Two of the orbiter's heat resistant tiles were damaged when the drag chute was deployed and two tiles on the nose landing gear door may have to be replaced.

As part of its continuing test of the new drag chute system, first installed and tested on Endravour, the red white and blue drag chute was released after the main gear touched down, but before the nose wheel made contact with the three mile long runway.

preparations for its next mission, consisted of three flights, the first STS-54 in January 1993 when it will drag chute deployment was subsequent to nose gear touchdown, the second deployment was at nose gear touchdown and the third was initiated at derotation. Phase II will consist of seven additional flights gradually increasing in speed from initiation at derotation of 185 knots equivalent air speed (KEAS) to initiation at 205

> Endeavour's landing at KSC this week brings the total to a record four shuttles that have landed here this year. Previously, the record was three landings in 1984. This year Atlantis landed April 2, Columbia, making its first KSC landing, handed on July 9, and Atlantis landed at KSC for a second time on August 8. This was the 12th shuttle landing at KSC

The nest space shuttle launch will take place in mid October when the Space Shuttle Columbia will take the Laser Geodynamics Satellite (LAGBOS-II) into orbit, Cohomitica will be moved to launch pad 39 ill on Saturday morning. A KSC land-This was the third test of phase I ing is also planned for this mission.

America's return to the red planet set for this Friday

By Brian Gamage State Technology Research

The United States will begin its much-heralded return to Mars when the Mars Observer probe is launched into space aboard a Titan III rocket this Friday, September 25, at 12:27 p.m. EDT.

U.S. mission launched to the red a wealth of data about the planet, but two hours. new global studies of the planet's

The Titan III expendable commercial faunch vehicle will carry

will boost the spacecraft into an interplanetary orbit leading to Mars.

The Space Shuttle Endeavour returned to the Kennedy Space Center on Sunday morn-

Earth to Mars, which will take about eleven Earth months crusing at 56,000 mph.

When it arrives at Mars the spacecraft must slow to 11, 800 mph to of elements on the surface of Mars. place it in a large elliptical orbit. Mars Observer will be the first which will later decrease to 7,500 mph for the mapping orbit. The orbit 1975. Those Viking probes provided spacecraft circles Macs about avery spostness clouds.

geology and atmosphere are expect-one martian year, which is about 687 will make low-resolution images of ed to give scientists even more earth days. This will allow Mars. Mars on a daily basis for studies of information about the planet's evo- Observer to examine the planet climate and weather changes through the four seasons.

Data from the seven instruments aboard the spacecraft will help sci-Mars Observer and its booster into entists at NASA and the Jet Martian surface, earth orbit. While in Earth orbit, the Propulsion Laboratory (JPL) to spacecraft will travel at 17,300 mph. determine the elements and minerals From there, the transfer orbit stage contained in martian soil, define the

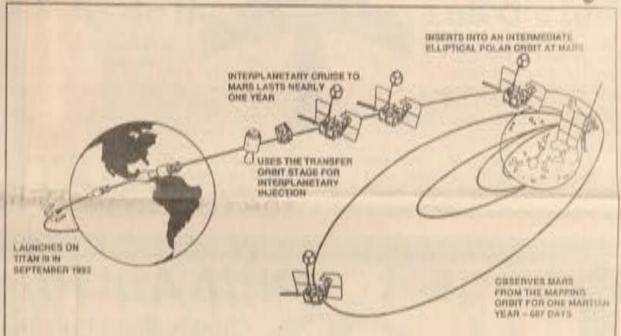
global topography and gravitational field, catablish the nature of the The Mars Observer will travel a magnetic field, and explore the distance of 450 million miles from structure of the circulation of the atmosphere.

> A gamma-ray spectrometer, built by the Martin-Marietta Astronautics Group, will measure the abundance

A thermal-emission spectrometer, built by the Santa Barbara Research Center, will map the mineral content planet since the Viking program in will then be adjusted so that the of surface rocks, frosts and the com-

> A line-scan camera built by the The scientific mission will last for California Institute of Technology,

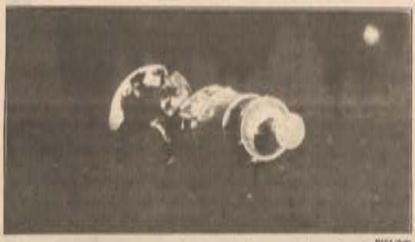
> > A laser altimeter, built by the Goddard Space Flight Center, will determine topographic relief of the



MASK provin

see Mars, page 88 The Mars Observer will take 11 months to reach its destination.

Ulysses continues in its orbit around the sun to study poles were subcontracted for the design. field of Jupiter to sling shot the has a maximum of 500 million miles



The Ulysses spacecraft was released by the Space Shuttle Discovery on October 6, 1990.

By Arie Moller Space Technology Repertur

The sun provides us with so much, yet we know so little about it. NASA and the European Space Agency (ESA), decided to do something about it. Their answer, the Utysses probe, Utysses was designed to take precise measurements of the magnetic field, particle streams (solar winds), and the properties of the space around the sun. Responsibility for launch, tracking, boosters, and data collection fell on NASA. The BSA was tasked with coming up with the design of the probe. Dornier Systems of Germany

Boeing and McDonnell Douglas jointly came up with the boosters. The power supply generator came from the drawing boards of General

The project manager (Willis G. Meek) and the project scientist (Dr. Edward J. Smith), had to come up with a way to put Ulyases in a polar elliptical orbit around the sun. Unfortunately, to do this from a direct launch from earth is no easy task. To accomplish this, the velocity of the earth around the Sun would bave to be overcome.

The agencies decided to launch Ulysses in a planar orbit around the Sun and use the strong gravitational around the sun. Ulysses new orbit

probe into a polar orbit. Having from the sun and a minimum of 195 solved the orbital dilemma, Ulysses was ready to go.

On October 5, 1990, Ulysses started her five year mission abourd STS-41. The Space Shuttle Discovery released Utysses at an altitude of 300 kilometers. Utysses then fired its Inertial Upper Stage (IUP) to escape Earths pull. A secondary engine (PAM-S) propelled Ulysses on its long voyage toward Jupiter,

In February 1992, Ulysses closed on Jupiter. From an angle of 30 degrees jovian equatorial, Ulysses was slung into an elliptical orbit

million.

In June of 1994, Ulyssex main mission will start, but already it is sending back valuable data. By carefully measuring the magnetic field of Jupiter during Ulysses flyby, scientist had come to the conclusion that the Sun's solar winds affect the Jovian magnetosphere to a much greater extent than originally thought. The solar winds were observed to produce a "downstream drag" on the magnetic field, forcing the field lines toward the downstream pole.

see Jupiter, page 86

NASA and Walt Disney join forces to push frontiers of plant biology

NASA preses release

Kennedy Space Center --- The time when astronauts will be required to grow their own foods in space may still be many years away, but a pair of scientists from NASA's Kennedy Space Center and Walt Disney World's EPCOT Center are already mixing soil, planting crops and preparing for humankind's longdistance voyages of the future. Their goal is to see that food is not an issue when astronauts once again leave Earth orbit and move on to the moon, Mars or beyond.

The arrangement is an interesting one that involves two of Central Florida's largest employers dedicating two of their most highly educated employees to a project in a field where neither conglomerate is best known. Chris Brown, Ph.D., a plant physiologist with the Bionetics Corporation, and Andrew Schuerger, Ph.D., a plant pathologist based at The Land pavillion at EPCOT Center, joined forces just over a year ago and have since been diligently

experimenting with lighting, plants substantially different circumstances and various types of growing envi-

Working in a laboratory near The Schuerger have not only devoted their attention to plant development but also to new ways of growing them. The most unusual aspect of their research is the artificial lighting used to nourish and stimulate the plants. Rather than relying on tried and true fluorescent of high-pressure sodium lights, the two scientists are instead experimenting with light emitting diodes (LEDs) --- basically identical to those that illuminate digital clocks and watches - to stimulate their crops. Even more significant is the color of the LEDs and lights: They're red and blue.

With a limited area to grow plants on Space Station Freedom or inside some yet to be designed spaceship, Brown and Schuerger were forced to exercise a bit of creative foresight in their approach to the project. "Sodium or florescent lights work great in indoor laboratories here on Earth, but we're going to have some

once we start growing plants in space," remarked Brown, "The presence of humans and a loss than ideal Land pavillion, Brown and environment provides us with some unique challenges."

Those challenges primarily center around the intensity and types of lighting needed to investigate and substain the plants. Typical greenhouse lighting was ruled out for a number of detrimental reasons that included short lifespans, poor energy efficiency, safety concerns with fragile glass lights and an intolerable amount of heat output - all things to be reckoned with when dealing with humans, computers and other electronic equipment.

The idea of using LEDs as an artificial light source for plants is not a new one. Developed and marketed by Quantum Devices, Inc. of Barneveld, Wisconsin, the growthspurring LEDs were first checked out by scientists at NASA's Ames Research Center, Experimental studies have since been undertaken by a handful of researchers from various universities and private institutions, but none are believed to be as exten-

by Brown and Schuerger.

Although outfitted with much of the same paraphernalia typically found in indoor plant facilities, this duo's lab more closely resembles science fiction than fact. The bright, hot lights associated with most plant factories are gone, replaced instead with warm, fingernail-sized red LEDs and pencil-thin blue bulbs positioned only inches above rows of pepper plants. Velcro-bound covers shroud the plants, but the nearsurreal red light still manages to waft from the seams of the small growing areas and into the lab's open spaces.

"Plants only need to receive certain types of color through light, and common broad spectrum lights give us more energy and heat than what they really need or use," Schuerger remarked, "LHDs dispel very little heat and have a thin, narrow band of light...We've found red to be a highly effective wave length for promoting photosynthesis and actually managing plant growth."

The scientists' observations are obviously valid judging from the

sive or fruitful as those conducted wall-colored and broad leafed state looked at every possible scenario so of most of their pepper plants. The first three weeks of the plants' growth cycle are spent beneath common white light, but from the 22nd day on they are exclusively under

blue lights and red LEDs. "The transition of the pepper plants from the white lights to red LEDs is fairly smooth and almost undetectable," commented Brown. "The plants respond well enough to the red LEDs, but we really start seeing some good reactions when we intersperse blue lights among the

Together, the blue lights and red LEDs not only stimulate healthy pepper plants, but also have positive effects on diseased crops, helping to invigorate them to good health. "No matter how hard you might try, it's almost impossible to grow an entirely disease-free crop," remarked Schuerger, "Integrated Pest Management (IPM) is a continuous effort here on Earth, and we can only assume that pests will likely be a problem to plants in space...One of our objectives is to make sure we've that we're not too surprised when we begin growing plants in space."

The LEDs are being tested for their usefulness in spaceships, but spin-offs of the research conducted by Brown and Schuerger will likely someday find its way into the commercial marketplace. The miniature LEDs - which can generate up to one-half the light intensity on midday sunlight - may have uses in commercial gardening, pest management, experimental growth chambers and others yet to be imagined areas, "The technology is still early in the development, but I think LEDs could have far-reaching applications," said Brown.

"We're delving into a new area of plant research here," acknowledged Schuerger, "I'm involved because EPCOT Center and The Land pavillion are dedicated to the future and particularly futuristic research...lt may be a while before the results of our studies fly in space or before their spin-offs are in your local garden shop, but we're confident that those days will come."

New Learjet 60 undergoes certification to be done by early 1993

By Denis Blacobing Auronautia Writer

Learjet's latest addition to their family of business aircraft is the питјек 60.

As of September sixth, one of three operational production 60's and the prototype were undergoing lesting for FAA certification, planned for early next year.

Each of the aircraft is involved in a different segment of the certification process. The prototype aircraft, 600CL, is being tested for stability and controllability.

limit is demonstrating the 60's high seed operation And mechanical itti-icing systems,

The second aircraft will begin electrical systems testing this month, ocluding the operation of its Collins Pro Line 4 avionics, and automatic flight control systems. Testing of cliability and fuel systems, and verall functionality will be performed on the third production airraft in the near future.

in test, the 60 has gone to 51,000 ices and achieved a maximum speed 88 Mach (395 knots), with a fuel Wichita and Tucson, the main pro-

NAME

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has been found to be stable and responsive in all flight aspects.

It has been compared to the 31A in stability, handling and perfor-

The addition of the Learjet 60 rounds out the Learjet family of aircraft, adding a mid-size, entry-level rocating, turboprop, and jet engine jet to their offering. Learjet offers product lines. the 31, 35, and 36 in light jets, the jet. Prices range from \$4,575 million ations. to \$16.1 million.

Bombardier, Inc., Learjet's Of the production aircraft, the Canadian parent company, is involved in all aspects of the production of transportation equipment, from design and manufacturing to market-in markets that range from civil to military uses. Based in Montreal, Quebec, Canada, Bombardier employs 32,000 people, and a business volume of slightly more than three billion Canadian

> Learjet, Inc., itself is headed by Brian E. Barents, Barents, as President and CEO, is responsible for company operations in both

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burn that ranges between 1,200 and duction and service centers for the 1,500 pounds per hour. The aircraft company. Before joining Learjet on March 1, 1989, he was vice president-sales staff at Toyota Motor Sales USA, Inc., based in Torrance, California.

Until 1988, he was senior vice president of marketing for Cessna. with responsibilities including recip-

After joining Learjet as president new 60 in mid-range, and the in March of 1989, he was responsi-Canadair Challenger for the large ble for all marketing and mies oper-

> In November of 1989, be gained control of quality assurance, operations, and engineering. Pinally, in February of 1990, he took the posttion of CEO and now oversees the Learjet's entire operation.

Barents expects four Learjet 60's to be delivered in the last quarter of the fiscal year. In 1993, 18 of the model are scheduled for delivery.

Barents also commented that the Aircraft market shows signs of a slow recovery.

International sales have alowed down, so the aircraft industry is expecting a slight delay after the initial recovery.

A few companies are holding out



Three operational production 60's and the prototype are being used simultaneously for a variety of FAA tests. The program has prompted Learjet to expand its facility in Wichita, creating 800 new jobs.

until after the Presidential election.

tion of what economic and tax is prospering. A new \$8 million flight test center jobs.

chasers to aid their decision.Learjet, has just been completed, and they The election will give an indica- in spite of the economic downturn, have expanded the Wichita facility

changes lie ahead, allowing the pur-90s a success for McDonnell Douglas

By Mike Mograth Asronauka Willer

In 1989, McDonnell Douglas had a \$222 million operating loss in their transport division. The main problem was McDonnell Douglas Corporation's (MDC) ability to keep up with the increased workload. This is one reason for the search for a new series of aircraft.

Despite the monetary loss, MDC, with help from a large order from Delta airlines, launched a new line of twin jets, the MD-90 series. These new aircraft promised to be state-ofthe art from the beginning.

The first major advantage is in the engine. The airplane uses a V2500 turbofan engine, the best in its class. In addition to being quiet, this advanced engine is highly efficient. Because of a high bypass ratio, the thrust produced will range from 22,000 to 28,000 pounds.

where MD pulled out all the stops. All three models (MD-90-30, MD-90-50, and MD-90-55) have modern flight decks. This includes an electronic flight instrument system (EFIS), a full flight management system (FMS), and an inertial reference system (IRS). In addition to these features, all engine and system monitoring will be done with the aid of dot-matrix displays.

The MD-90-30 is capable of carrying 153 passengers, which is less than the Boeing 767. The scats will be arranged in the widely used fiveabreast configuration. This model will be able to take a maximum takeoff weight of 156,000 pounds approximately 2,400 nautical miles. The MD-90-50 will carry the same amount of passengers, but will have a larger range. The MD-90-55 will carry 187 passengers a distance of

3,000 nautical miles.

The avionics are another area began in February of this year. This entailed the joining of the wing and the fuselage. A month later, the aft section was added. May marked yet another achievement.

After the nose was attached, the plane was able to rest on its own landing gear. In the months to follow, tests were conducted, horizontal stabilizer added, and the hydraulic system was activated. Flight tests are scheduled for the early part of 1993.

In 1990, Alaska Airlines, GATX, Great China, and Japan Air joined Delta as customera. SAS, an airline consortium, planned to buy 73 MD-80s, but changed its last seven orders to MD-90s.

This is not only a financial success for the MD-90, but also a trend for the transportation system. The production of twin jets is expanding. This will provide for the immediate needs of the airline industry, and Production of the MD-90-30 also the needs of the next century,

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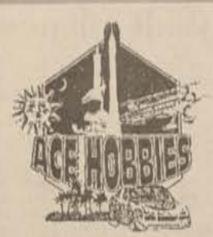
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Lynch Mob climbs the charts and takes charge with Wicked Sensation

By Douglas O. Fischer Diversione Writer

If you liked Lynch Mob's Elektra Records debut album Wicked Sensation, you'll love their self titled second effort. Since its release on April 28 over 200,000 copies have been sold. This album reached number six on Billboards Rock n' Roll album chart.

Recently Lynch Mob performed before a packed house at the Station. All in attendance were seriously rocked. Comprised of George Lynch on guitars, Robert Mason on vocals, Anthony Esposito on bass, and Mick Brown on drums, Lynch Mob is a rock band with no where to go but

In July of 1991, Rob joined the band to do the vocals. During an interview with Anthony he said that Rob fits in with the band perfectly. The band is on the road playing for the people and getting good respons-

es from all their shows. Hopefully than excellent, George shows us they will be playing arenas in the

It took them one year to make this album, but the time was well spent, The album starts off with "Jungle of Love," a good solid rocker with cool guitar riffs that keep the feet tapping throughout the duration.

"Tangled in the Web" is an up beat groover complete with horns. George's guitar has just a touch of distortion, blending with the horns

"Dream until tomorrow" is a power ballad, "complete with orchestrated bits and a guitar part," Lynch explains. "All of that is a departure, It's not your typical rock ballad," It sure isn't a typical ballad, the lead guitar and vocals are done

Song number six is a Cover of Queens' "Tie your Mother Down." The job done on this song is no less

brain, pinhead) is information

obtained through the Avion, you'll

be fine! (The editors held a gun to

how a guitars' feedback can be mastered

"Heaven is Waiting" is another toe tapping groover. "I want It" has a burning hot lead guitar bit, making this song a real screamer. My favorite song is "When Darkness Calls." This song is a feat of four musicians being totally in synch. The song starts off slow, but goes to an all out assault during the chorus. The riffs and guitar licks are exceptional, the lead guitar is incredible. "The Secret" finishes up a overall excellent album.



Dear Wanda:

Dear Wands.

I recently had a harrowing experience involving my brain, I believe that during the middle of tast week I was abducted by aliens, This might not seem so bad but they took out my brain and removed every ounce of aeronautical Okay! They offered a lot money, luck, I hope you are man enough to knowledge I had except for what I read in the Avion. What should I do? Abby Normal

Abby Normal

Aliens? Come on, Aliens?

If I even acknowledge your question the government officials on me. They don't know I know. will be banging down my door and Should I let it continue or try and Stade, carting me off to a funny farm (for get them together? my own good). If I don't end up drugged in a Federal institution, I'll have an accident that will leave me Carefully Considering tike a vegetable in a coma or better yet, dead. So, I encourage you to can have everything, "The best of one guy, the lefty, he snickered and drop the alien facade. Okay? Good. both worlds." So, keep the scenario asked, "Can I have the question

Tuna Salad

BLT

Grilled Chicken Salad

American Cheese

Cheese, Tomato, Egg

Cottage Cheese, Tomato, Egg

Scoop of Tuna Salad, Cottage Cheese

Tomato, Egg

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Greek Salad

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small ... 2.50 large ... 4.75

Dear Wanda.

okay, just don't fly!

girlfriend has an almost identical normal? twin and they have been switching

If the only aeronautical up and pretend you don't know repeated? I believe you mistakenly

information you have left in that what's going on. Eventually one of vast container of knowledge (your the two will screw up, and the troth will be known. This will be your best chance at getting them together. Use some sappy excuse like "you my head and forced me to write both broke my heart, now fix it," or good things about the paper. Okay! something just as effective. Good five bucks). As I said, you'll be pull it off. Let me know how it goes

Dear Wanda,

I have always felt I am a lesbim I recently found out that my trapped in a guy's body. Is this

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.70

2.50

Because I'm not in a lesbian and Carefully Considering not trapped in a man's body, I polled a few Riddle guys (only one lefty). Everyone else answered "ya," "o If you play your cards right, you course" and "hell yes" however that

CLARKES CORNER:

Singles relates to modern problems and has a great Seattle soundtrack

By George Clarke Olympione Movie Critic

Once in a while a film comes along that strikes you in a funny way; each frame of celluloid taking you for a journey-a journey not with the characters on the screen, but into the characters within yourself. Once in a while a film comes along that you can relate to deeply, and whose viewing demands the presence of a cup of hot cocoa, a bag of Funnyons, and a warm, fuzzy companion.

Say Anything was such a film for me, I remember going through exactly the same troubles poor Lloyd Dobbler did as he tried to woo the heart of the school brain. When the film came out, I was struggling with a similar problem. And when Lloyd finally got the girl-and said girl dismissed him -she gave him a writing utenail as a parting gift. "I gave her my heart," I recall him saying, and she gave me a pen." My heartache gave me a pen, too. A Cross pen. The kind they fish through aircraft wreckage with.

And so now the writer/director of Say Anything is back with his follow-up-a spiritual sequel, if you will-and in Singles, Cameron Crowe scores again.

Set in Scattle, Washington (just like in Crowe's previous flick), Singles follows the intertwining lives of several tenants of an area here-you can relate to Scott's

apartment building. All of them clean-cut introvert or to Fonda's are having problems in their individual love lives; indeed, several of the characters have none.

We focus on Cambell Scott's character, a fairly normal guy who's having trouble finding Miss Right and who spends his off hours at a very underground Seattle club with his friend, a strange alternate who tries to "live his life like a French movie." Scott knows his chances of finding a companion in there are slim, but he tries anyway-or does he...could it be that he's afraid of commitment and thus hides out there? Kyra Sedgwick's character is having the same problem. Of course, stars sometimes cross in the moshing

We've also got Bridget Fonda as Janet, a twenty-three year old who has no idea where her life is meandering to. She does have a relationship with Cliff (Matt Dillon), floral deliverer by day and aspiring retro-punk-alterno-menudo newwave rocker by night. But the two are headed for a fall in her eyes, and she struggles throughout the film with the thought of learning to bear the burden of dismissing an ex-love.

The film is arranged in little vigneties, allowing us to explore each character separately, while keeping the group together. And there is a character for everyone

rash and impulsive brat or to Dillon's blunt artist, or Sedgwick's confused and hurt loner, Between the four of them, all bases are covered. Frankly, I think there's a litde of each of us in the ensemble.

Cameron Crowe has a way of taking a common, everyday object. or gesture and turning it into something that means much more. He's a symbolmeister. Witness Say Anything's airplane scatbelt ding, or the broken glass in the parking lot. Or the pen, These subtle shownot-tell devices are used effectively in Singles, too-making it so much more cerebral. But symbols aren't what makes this movie. Singles is witty, hilarious, intelligent, sad, happy...it'll make you cry if you're not careful. The characters have dimension. The music is great (Pearl Jam, Alice in Chains and Soundgarden can be heard). The story is relevant. I'd love to take a warm, fuzzy companion with me the next time I see it.

I guess I think it's so good because I'm a college kid and, well, the film is about folks just out of college. Oh well, I still say it's a great flick. When I walked out of the theater I felt refreshed. No-I felt renewed. After all, isn't that what a good movie does for you? I can offer no higher compli-

Why do they get to have all the fun?

By Boyd Kelly

Diversione Extino

Some coming attractions to the Diversions page include music reviews of Blind Melon, INXS. Bentley Tock, The Wallflowers, Miss World, Blue Rodeo, The Boo Radleys and Peter Gabriel.

Reviews on resturants and a glider flight will be forthcoming.

Also, our weekly columnist George Clarke will be reviewing a

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Breaded Mushrooms		10000000	and the state of the country c	10/1/13
Combo of Above	Breaded Zucchini	2.25	Spaghetti with meat sauce	3.95
Breaded Onion Rings 2.25 CHARBROILED SANDWICHES 1/2 lb. Houseburger with grilled onions and cheese 3.25 5 oz. Ribeye (We cut our own steaks) 4.25 Marinated Chicken Breast 4.25 Marinated Chicken Breast 4.25 Marinated Chicken Breast 4.25 Morinated	Breaded Mushrooms	2.25	with meat balls	
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CHARBROILED SANDWICHES 1/2 lb. Houseburger with grilled onions and cheese 5 oz. Ribeye (We cut our own steaks) 4.25 Marinated Chicken Breast 4.25 CHARBROILED STEARS "We cut our own steaks" "Soz Ribeye . 5.25 10 oz Ribeye . 9.5 SEAFOOD Breaded Flounder (deep fried) platter Fried Shrimp Basket . 4.95 Surf Platter - flounder, shrimp, and oyster (all fried) . 9.95 Fries . 1.25 Cole Slaw . 1.00 Charbroiled marinated chicken breast with mash potatoes or fries . 4.95 SEAFOOD Breaded Flounder (deep fried) platter Fried Shrimp Basket . 4.95 Surf Platter - flounder, shrimp, and oyster (all fried) . 9.95 Fries . 1.25 Cole Slaw . 1.00 Charbroiled marinated chicken breast with mash potatoes or files . 4.95 SEAFOOD Breaded Flounder shrimp shawet . 4.95 Surf Platter - flounder shrimp shawet . 4.95 Suff Platter	Breaded Onion Rings 2.25			
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Ham & Cheese		3.25	Hot Chocolate	200000000000000000000000000000000000000
The state of the s	Ham & Cheese	3,50	Sodas	1.00

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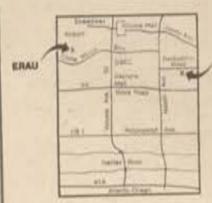
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LIKE ABOUT

PICTURE OF ME

FOOKING METT

ADJUSTED AND

PLAYING SPORTS

CALVIN P

at recess,

71 00

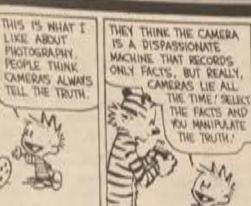
PHOTOGRAPHY. PEOPLE THINK

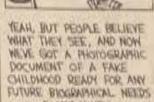
SPORTS.

by Gary Larson

Calvin and Hobbes

by Bill Waterson









YESTERDAY

YOU WANTED A NUCLEAR PAWERED CAR THAT COULD

TURN INTO A JET WITH LASER-GUIDED HEAT-SEEKING MISSILES /

FOR EXAMPLE, I'VE CLEARED

OFF THIS CORNER OF MY RED

TAKE A PICTURE OF ME HERE

BUT CROP OUT ALL THE MESS

AROUND ME, SO IT LOOKS LIKE I KEEP MY ROOM TIDY.







M A SIMPLE

MAN WITH COMPLEX TASTES

ACTUNET.

TO LIKE TO

SHE MORE

TEACHERS

OUT ON THE

STREETS

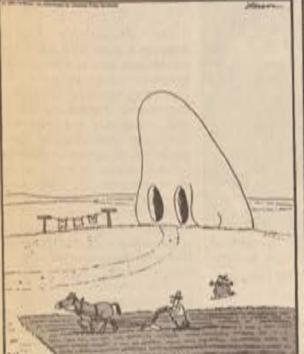
OK, HANDS UP

DIDN'T DO THE

HOMEWORK

FOR TODAY P

WHO ELSE



Far Side

Laura runs to greet her pa in this scene from "Ilig Nose on the Prairie,"



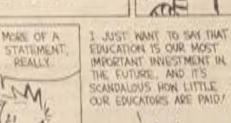
"It's not good, ma'am. ... He's got field mice."



THOO! UKOP

MORE

SCARE ME

















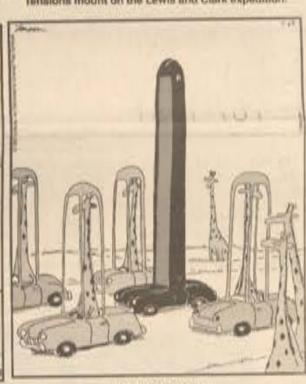




Tensions mount on the Lewis and Clark expedition.



"OK, ma'sm, you said you warned your husband to put the newspaper down or you'd blow him away. . . . Did he respond?"



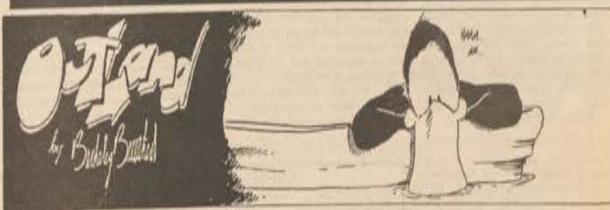
Giraffe limousines

by Mike Peters

Outland

I HATE SCHOOL! I'M NOT SOING TO SCHOOL EVER AGAIN! I REFUSE.

by Berkeley Breathed









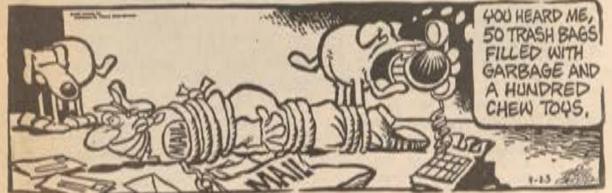


STOP IT

Mother Goose and Grim









The Arnold Air Society, dedicated to community service, took Cub Scout Troop 448 to Tomoka State Park to introduce the Scouls to the history of Native Central Florida.

By Nicole L. Malloy Punto Albert CTIVE

What better way to spend a day than with about 25 eight to ten year old Cub Scouts at Tomoks State Park. At first I could think of plenty of bear things to do, but I decided to go anyway, just to test myself. However, at the end of the day, I couldn't think of anything I would nuther buve done

As part of Arnold Air Society's (AAS) dedication to community service, the Society took Cub Scout Troop 448 to Tomoka State Park on the 5th of September. The purpose of the trip was to introduce the Scouts to the history of Native spend some time in the natural sur-

-oundings. To start the day, AAS cadets played various games with the Scouts to get everyone acquainted and settled down, Next, the Park Rangers unight the Scouts about var-

through the museum, the Scouts were taught how indigo was used by the Indiana to dye cloth, Each Scott was then given a white tshirt to tiedyo. The results could easily have been sold in the most trendy of clot-

ning stores. By this time the Scouts, and the cadets, were getting very hungry. Luckily, the parents started up the grills for a delicious cookout consisting of hamburgers, hot dogs, chips, and much more. After lunch, everyone played a myriad of games, including an obstacle course devised by the cadets. The day ended with a scavenger hunt by Captain Matt Warren-Thomas, Troop 448's Cub Master. The Scouts were to find two insects, two dead things, a bone, Central Florida and allow them to fishing line, several types of trash, a live lizard, tree -ark, leaves, and berries. All of the items were found by all of the groups, but not without a little searching.

As the Scouts were leaving, a few cadets had a chance to reflect on the dny. Realizing the fun they had and ious insects and native wildlife the memories they now share, the while hiking through the forest to day was very rewarding for both the the museum, after having a tour Scouts and the Amold Air Society,

they be you will special by The Assess.

pa SIGMA TAU DELTA, the unmational English Honor Society. dependence all new and returning studred chapters and is a member of the National Association of College Honor Societies. In addition to sponconventions, Sigma Tau Delta publishes The Rectangle, a prestigious showcase for student writing. The awards, scholarships and the chance to have your writing published are all open to any member of Sigma

More at Embry-Riddle, the Gamma Ribo chapter of Sigma Tau Dalta, we have an interdiciplinary focus. Our activities include producing Creations literary magazine, tests, writing contests, museum and symphony visits, humanities colloquia, and other activities. graduation ceremony for members can call extension 6324,

of Sigma Tau Delta.

For our uninformed members, last year our entire officer's council graduated and new officers were elected: Negar Afshar - President; Stefan Kageman - Vice-Pres.; galents. We hope everyone had a Stephen Johle - Secretary; Dave pleasant aummer, Since 1925 Sigms Douglas - Treasurer, We feel very Tau Delta has promoted the cultiva- optimistic about this upcoming tion of the language acts and the semester as our policies have been homanities through nearly five him-revised a bit in order to enhance and promote our image on campus. We have several activities planned for this semester such as a trip to the suring awards, scholarships, and Salvador Dali museum in Tampa, the largest collection of Dali paintings in the world. This time we are definitely going, and anyone interested is invited, whether you're a member or not. Information will be forthcoming.

Anyone interested is invited to join this prestigious organization as long as the requirements are met. Our next meeting will be Thursday, October 1, at 5:30p.m. in library sponsoring art and photography con- room 157D. Anyone who thinks they might be interested in joining Sigma Tau Delta is welcome to come to our next meeting or contact Furthermore, special recognition is any of the officers through our box, given by the university during the #7823, or for a prompt response you

Special To The Avion

Engineering Student Advisory Council (E.S.A.C.) is an organization here at Embry-Riddle represents which Aeronautical/Aerospace Engineering, Engineering Physics Aircraft Engineering Technology student body in matters that affect this group of students. E.S.A.C. also serves as a linison between engineering students and the engineering administration and faculty. The council will voice the opinions of the engineering students to the department administration before any decisions concerning students are made, E.S.A.C. will also provide communication with the professional engineering community so that students will have an insight into engineering practices in industry and will have a better idea of what it takes to get a permanent job after graduation.

only have to be enrolled as an engineering student in one of the degree programs mentioned above, and be in good standing with the university. As a member you will have the opportunity to express opinions or suggestions regarding curriculum or any other engineering matters here at Embry-Riddle.

Our next meeting will be held in room E-613 on Thursday, September 24, at 1:30 PM. The focus of the meeting will be to initiate a program to purchase computers through the university for incoming students. In addition, a engineering faculty/student BBQ will be held on Saturday, October 3rd at the BBQ pit. We would especially like to see the freshman and sophomore engineering students come out for this event so that they can get more involved in engineering by getting to know some of their future instructors, as well as their fellow students. All engineering students are welcome to attend both the meeting and To be a member of E.S.A.C., you the cookout. Hope to see you there!

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

Photos may be submitted with club articles. All submitted material becomes property of the Avion with the exception of disks.

The Avion reserves the right to edit all submitted copy.

For more information stop by or call the Avion office at (904) 226-6079.

By Jason Piper Historian

Well, the last few weeks have been very eventful for Alpha Eta Rho. We had our RUSH party at the Elk's lodge, which was a memorable event for all who attended. Those of you who didn't make it there, you missed out. It was a great time just ask Boyd. We proved that Alpha Eta Rho is on top. Thanks to everyone who set up, cleaned up, and everything else which made the night a great one.

To everyone at my place on Friday; hope you had a good time, Everything went smooth, Well, almost everything. The fish are still alive and swimming. Also thanks to everyone who helped clean up the day after. Not! Oh well, all in the line of brotherhood.

We held our barbecue on Sunday, There was a big turnout. The food come Alpha Xi Delta to campus.

Prospectives, if you haven't been convinced yet, Alpha Eta Rho is the way to go. You won't regret it We've got a busy schedule for the semester .It will be time for ritual before you know it, Don't forget: First interviews are this Thursday at 7:00 PM in MOD-3B: Also, every

Next time I'll listen to you.

Monday night it's Houlligans for Monday Night Football. I'd like to thank Greg the clubs editor for being so understanding with Boyd (Delta Chi) and Myself, He has such a thankless job, Boyd, you think that will shut him up for a few weeks, Probably not. Just kid-

was great.(can you tell I'm the

cook.) I think the hair on my arms

that was singed off by the fire will

grow back soon. Yes Joel, you were

right, there was too much charcoal.

ding Greg. In a parting note I'd like to wel-

By Brandon Denzer Hugby Club Hillow

The Embry-Riddle Rugby Team fought a superb game this Saturday against host team Jacksonville. The 3 - 3 tie was squeezed out when Riddle matched scores with a field goal late in the first half. Riddle's offensive performance was lead by Mason Thompson, outside center, with a 50 yard mad-dash down field which set up several touchdown attempts. Defensively, forwards Rick Kirk, Ron Garvey and "Link" formed a wall by leading the team

with at least four tackles spiece. The team coordinated its attacks and kept the ball deep in Jacksonville territory only to humiliate the opposing team more by stealing the majority of the line-outs and scrums.

The Daytona Beach Rugby Team shutout Jacksonville in the first match by a score of 32 - 0. Credit for this slaughter went to Jeff Pager, Mike Deprie, Perry Lasky and Mike Kane. Both teams will be playing away on September 26 in Gainesville where the Embry-Riddle Rugby Team will face the University of Florida Gators.

By Boyd Kelly Public Relations Lemming

Well, it's good to be back after a brief hiatus. I made the stupid assumption that I was on top of things and that I could just sneak an article past the evil overlords of the Avion staff.

I was wrong.

Anyway, as a consequence, I was not able to do my regular weekly play on words that you guys love so much. This means that it will have less meaning than if I had done it last week. So, here goes.

First, and foremost, I would like to thank my fellow RUSH monitors and their respective fraternities. I would also like to thank AHP, XX, ΣΠ, ΛΧΑ and ΣΦΔ for being kind

Now for the weekly denials of truth. I thought that the AXA RUSH slogan was "Dead Forever." My mistake.

I also thought that when 211 was making their disclaimer that they said "Any resemblance between us and a real fraternity is purely coincidental."

Once again, my mistake.

These little mistakes crop up every now and then and really complicate daily life. It reminds me of the time that...well, that's another

I would like to welcome our new Rushees and hope that we can be as entertaining as some of you. To the acoustic fans I recommend screenrefresh your memory on what happens to the guitar.

Say Bill, are those guys following you around or are they following

On a higher level of sophistication, I feel it important to inform Stetson to serenade.

everyone that those of us in Doc Browns Relationship class are learning more than we could ever fathom and making more enemies by the

Spaghetti anyone?

It also seems that moshing has become a rather popular event at the house but I really think the floor should be re-enforced before continuing, or holding a social with...

Speaking of socials, we have a busy schedule this weekend entertaining the AEA and ZTA. Bring your favorite Teenage Mutant Ninja Turtle suit and the waterpistol of your choice.

Dad has asked us not to bring a hose and those at the house will be locked up, so plan accordingly.

This weeks contest will involve making a guess of how many paper airplanes are on the airplane in the U.C. All correct answers will be forwarded to Dan for proper allocation of prizes.

Speaking of paper airplanes and the U.C. everybody should continue to attend the thursday night movies. This weeks selection is Lethal Weapon III .

Phone lists will be out shortly and so will calenders. We will try and put events in here so you can keep informed in case you don't ever stop

by the house. Keep doing cleanup on weekends and everybody is doing a great job of observing the quiet hours, but no

one seems to making use of them. Seem like I am just bableing, well ing Animal House again so as to I am, I have just a little too much space to fill and my eyes are bigger than my stomach.

The thought for this week is deep and profound in nature.

Tom says everybody show up thursday because we are going to

By Nell Swindells

On behalf of ASSAB, I would like to take this opportunity to welcome the Aeronautical Science student body back to school for the Fall 992 semester. For those students arriving on campus for the first time, a special welcome and good luck with your first semester of studies!

year, Dr. Connolly and Mr. Gruber helped create ASSAB with the intention of aiding the communications between the Aeronautical Board consists of six Aeronautical Science students and one of the Aeronautical Representatives from the SGA.

The primary focus of ASSAB is to promote student input into the Aeronautical Science program. Therefore, the Aeronautical Science Department has installed a Suggestion Box in the Vending Lounge in the Airway Science Building across Clyde Morris Blvd. This box will be emptied before each ASSAB meeting and the items discussed. Any and all suggestions on how the Aeronautical Science Program, Faculty, Administration and student life might be improved are welcome. All items in the Box will be discussed with Dr. Connolly or Mr. Gruber, or both.

If, like me, you have wanted forum to express your thoughts or ideas about the Aeronautical Science

program, now you have that forum. Drop us a line in the Suggestion Box and we promis we will act on your suggestions.

Throughout the semester, ASSAB hopes to have open forums so that students can personally express their feelings on how the program can be improved or simply ask questions about the program. Also, we will try to have speakers of particular inter-In the Spring semester of this est to Aeronautical Science Students during the semester.

ASSAB has been created with you in mind. It will flourish depending upon how much you have to say. Science Students and Faculty. The Every day, while attending classes or just walking around campus, I hear suggestions about improving aspects of Embry-Riddle life, If you have an idea for the Aeronautical Science Department, we want to

> Due to graduation, the Board currently has two openings. If you feel like you have something to contribute to ASSAB, and can afford to spend an hour or two every couple of weeks trying to improve the program and general student life for the Aeronautical Science Student Body, stop by the Aeronautical Science Office and pick up an application, The deadline for an application to be received is 5:00 pm on September 30. During the week of October 5-9, we will hold informal interviews with prospective ASSAB members. Shortly thereafter, the new members will be announced. All aeronautical science students are welcome.

Jupiter (continue from page 81)

aboard. The primary ones are a detailed early of the magnetic field of the sun, solar wind planna measurement, corona Immperature measurement, cosmic and x-ray investigravitational wave experiment. The magnetic field stody will concern mealf with measurement of the direction and arength of the field lines around the sun. By understanding the magnetic field better, scienhar can better pinpoint the surface arean responsible for the solar vinds Dr. Andre Ralugh of Imperial College London in the chief originator of this experiment. Aunthor of the experiments will and spend-of notay wind parucles, Or. Jenny Geim of Universitat Barn settendiand heads this experimental locate solar active regions. Instead of worse the magnetic field as a refocz, imerateliar comme mys that bend around the san will be used, late 1995,

By measuring the lapse time between Ulysses and an earth bound observer, the experimenters can tri-Ulysses has 11 experiments angulate regions of solar activity. Principal investigators are Dr. Kevin Harley of the University of California, Berkeley, and Dr. Michael Summer of the Max-Planck-Institute in Garching. gation, coronal sounding, and a Germany. Coronal sounding is a technique by which two frequencies. are transmitted simultaneously, By carefully measuring the phase difference caused by the corona, certain properties such as electron velocities in this region can be inferred. Chief investigator is Dr. Hans Volland of Universitat Bonn, Garmany, Gravity waves illusive perturbations in the time-space continuum produced by very massive bodies, are predicted by Einstein's pressure the density, temperature, general theory, but have not been confirmed yet. By measuring very untitle shifts in Ulyssex transmitting. frequency, Dr. Brian Bertotti of thate. The cosmic ray and x-ray Università di Pravia, Italy hopes to investigation will be an attempt to detect gravity wave passing through Ulyang antenna.

Ulyases will end its mission in

Mars (continued from page B1)

A pressure-modulator infrared radiometer, built by the Jet Propulsion Laboratory, will measure dust and condensates in the atmosphere, as well as temperature

A radio-science investigation will measure atmospheric refractivity as it varies with altitude to determine the temperature profile of the armosphere, and will use tracking data to measure the gravity field of Mars.

A magnetometer and electron reflectometer, built by the Goddard Space Flight Center, will determine the nature of the magnetic field of Mars, and its interaction with the solar wind.

The Deep Space Network, a world-wide system of antenna and space communication stations operated for NASA by JPL will provide tracking and data acquisition for the Mars Observer mission. During the more than three years of the mission, scientists and experimenters will be able to participate from their

home institutions via electronic links to the operations center. In its near-circular mapping orbit,

the Mars Observer spacecraft will rotate once per orbit to keep the instruments pointed at the planet, This will allow all instruments to view the planet continuously and uniformly during the entire martian

The rotation and orientation of the spacecraft are controlled by horizon sensors, a star sensor, gyroscopes and reaction wheels, as is common on earth-orbiting satellites.

Once during each 118-minute orbit, the spacecraft will enter the shadow of Mars and rely on battery power for about 40 minutes. The battery will be charged by the spacecraft's large solar panel,

The time a command takes to reach the spacecraft from Earth is at the least 5.5 minutes and at the most 20.5 minutes, depending on the orientation of Mars Observer,

The lifetime of the spacecraft will most likely be determined by the supply of attitude-control fuel and the condition of the batteries.

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+ Misc. for sale

Apartment Sale: liverything must go. New Zenith TV 20" stereo, typewriter, appliances, kitchenware, living room and bedroom furniture, IBM computer w/ monitor, much more. Matt 904-239-9581.

King-size waterbed for sale, full-wave, includes thermostat and heater. Paid 3175, will take best offer. Just wars to get rid of it. Contact J. P. Walsh at Flight Dept. or call

Hurricana Andrew destroyed Pro-Scub: shop in S. Florida. Equipment for sale at wh. essie prices in Daytona, Call 252-1345.

386DX 40Mhs motherboard, upgrade most IBM computible to the fastert 386 available. 64k cache, 32 mag possible on board, installation free, Just \$255, Lv. Massage 238-

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Attention golfers! 2nd chance golf balls for sale, 75 conta per ball, 8 for 5.00; 20 for \$10,00. You pick 'em at Dorm II room 13ll or

Our way airline ticket from Cleveland to Daytona. Sunday, November 29 at 2:18 p.m. on Continental. Thanksgiving weekend! \$80.0 O.B.O 274-2386.

Twenty inch 14 K solid gold rope necklace, Approx 23+ grams. Retail \$450.00. Will sell for \$150.00. 258-2258 Connis.

Pyramid PB 300 150 watt auto amp - like. new, in box for \$75 (O.B.O.) Small roll top desk 30" x 15" make offer. Call Curt 248-

For sale: 8088 IBM clone, 3 1/2 " and 5 1/4" drives, 40 MB hard drive, CGA monitor, mouse: menu, WordPerfest, lots of games already loaded. Asking \$100 for system. Call Kim at 756-8560 leave measage.

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Miscellaneous

Anyone interested in playing field bookey contact Kristine at 767-0545

Wanted to buy: Avain please call again, I lost your number. Prain at 788-4179. \$30 for one that works.

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Congrata on becoming a private pilot. You deserve a steak dinner at the Outback, How

Management Club widcomes Blair as our new advisor-Welcome aboard Barbarul

Here's your personal. You are really good looking, the picture didn't come out. Give me PHOTO ED.

MCLUB MEMBERS-This year is going to be a blast! Don't forget the BBQ on the 26th. Bring volleyballs, frishers, etc., we bring the food-sound like a

MCLUB OFFICERS

Another week, no personds for me I guess. (Boo-Hoo!) anyway, Thanks for being the slob that you are... it always brightons my days and nightal (Uh...no comments!) LOVE 'YAI - YOUR JURSHY 'HOB'

GOOD BUDDIES Dosow who you are. Your storm face personality has not changed in a year. Becareful who you play with, you might get

The mink won't atop maring, my back is absolded, my eye sight is fading, and I love every minute of it. SLEEPY THE ANIMAL TAMER

To the person who stole my money out of my wallet: Use it wisely! N.N. Box 7647

Thank you for the beautiful rose and letter. sorry but I have a boyfriend. (Thave no idea who you are ...)

To 3rd North of '89-'90, Where are all the fellas form the Hall with Blastf Call spidemum at 767-1308, No one

has topped our record of Maybem!!

TURKEY HEAD, I have not recently told you how much I enjoy being with you. I want you to know how much I appreciate the person you are and to tell you how thankful I am for the time we share. I care about you very much! LOVE, THE CRAYON FAN



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Notices

Red Cross to hold Blood Drive next week in S.C.

Sponsored by Sigma Chi fraternithe Student Center Conference Room on Wednesday, September 30th and Thursday, October 1st. The times are from 10:30 a.m. to 4:30 p.m. The Bloodmobile will also be in front of the library on the same stop by room D218, dates from 11:00 a.m. to 4:00 p.m. For more information please contact Debbie Haun, American Red Cross at 226-1408.

United Airlines program underway

ERAU United Airlines Flight Office Candidate Program is underway for the Fall semester. Application deadline is Friday ty, the Blood Drive will be located October 2nd and is open to prospective and recent graduates. Basic eliibility criteria are posted on buletin boards in the Plight Department For additional information contact Melissa Strickland at 226-6837 or

Attention December graduates

All students anticipating Degree Completion by December 15, 1992 must formally apply at the Office of Records and Registration. An appli-

cation of ceremony attendance is also required and there is a \$40 charge should you choose to attend the ceremony. Applications will be accepted through he deadline date of October 9, 1992. Attention April

graduates

Applications are also being accepted for those anticipating April '93 degree completion. Come to the Office of Records and Registration

done and mailed to your box before Advanced Registration for Spring of

Post Office policy

and fill out an application to receive

Evaluation. We will try to have one

Preliminary

Graduation

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Addressing is a very important issue. Due to automation within the USPS the address for Embry-Riddle is critical. Because there are similar box numbers within the city as compared to Embry-Riddle the following format is important:

ERAU # (Box no.) Embry-Riddle Aeronautical Univ. 600 S. Clyde Morris Hlvd. Daytona Beach, Fl 32114-3500

Please do not use the word BOX in any address. That could cause mail to be misdirected

Feel free to contact the Postal Service Department with any problem at 904-226-6017.

Special Olympics need volunteers

The Volusia County Special Olympics organization is looking for volunteer coaches to help train mentally and physically challenged athletes for the Fall 1992 Indoor Games. Coaches are needed for basketball, bowling, gymnastics, and weightlifting events. For more information on volunteering as a Special Olympics coach, contact Mary Massey at (904) 252-8928.

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