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AERONAUTICA Embraer makes 4,500th delivery

Einbeine Pount Fielman

Embraer today made its 4,500th delivery - to Pantanal Linhas Aereas Sul-Matogrossenses, a new regional airline formed this year at Campo Grande, in the State of Mato Grosso do Sul, which has orders for three aircraft, including one option.

Embraer was founded in August 1969 and started operations in January the following year.

Its first delivery, the EMB-200 Ipanema agplane, was made in February 1972.

In the past 20 years since that first delivery the company averaged annual deliveries of 225 aircraft, including types developed in-house and those built under license,

men tioned Ipanema, deliveries of which have exceeded 700 unita, through turboprops for regional airline and military

These include aircraft such as the EMB-110 Bandelrante, with 500 deliveries, the EMB-120 Brazilia, with over 260 deliveries and the EMB-312 Tucano, with more than 500 deliveries.

Also included are attack jets such as the AMX, deliveries of which have recently surpassed the mark of 100 units.

Embraer celebrated last August its 23rd anniversary.

The company's present workforce is 5,800 employees and it is currently developing the 19-seat pusherprop transport CBA-123 Vector, the 50-seat regional fanjet-These ranged from piston- liner EMB-145 and the military



Embrear just recently celebrated its 4,500th delivery of its EMB-120 Brasilia. The company celebrated its 23 year anniversary this year in August.

powered aircraft such as the already trainer Super Tucano. A hosts small aircraft certification compliance workshop

EAA Press Pelsons

More than 50 representatives from the small aircraft industry, Experimental Aircraft Association (EAA), the Sport Aircraft Manufacturer Association (SAMA) and the Federal Aviation Administration (FAA) met at EAA Headquarters in Oshkosh, Wis, in to discuss the new Small Aircraft Certification Compliance Program.

Representatives of Canadas Minisitry of Air Transport also

The meeting standardized provisions of the program, which was introduced last July during the EAA Fly-In Convention in Oshkosh, for all FAA personnel around the country. Aircraft manufacturers and rebound from declining numbers in revitalize and modernize the nation's

engines and airframes could be current general aviation floet. certificated under the simplified

This program has the worthy goal of making certification of new small aircraft, using today's technologics, less complex," EAA President Tom Poberezny said. "The ball is now in the aviation industry's court to produce engines and nirplanes that take full advantage of this effort. This program will not be a success until we see airplanes come off the production lines and placed in the hands of the consumer. help the general aviation industry

FAA Aircraft Certification Offices single-engine aircraft manufactur-(ACOs) were briefed on the program ing, new airplanes built and piloted, and how new small airplanes, as well as the aging of the nation's

> The total number of airplanes registered in the United States has fullen by 10,000 since 1985. The average age of an American

piston-powered, single-engine airplane is between 25-28 years old. The seriousness of the signation is

underscored by the fact that only slightly more than 500 new singleengine small aircraft were monufactured by American companies in 1991, along with approximately 1,500 kit-built aircraft.

John Colomy, Manager of the Only then will we have truly met our FAA Standards Office in the Small goal. The program was created to Airplane Directorate in Kansus City, Mo., foresees the program belping to

general aviation fleet.

"We want to go back to the future," Colomy explained, "Much of the country's current general aviation fleet was certificated under rules established before 1965. We want to give small airplane manufacturers the opportunity to use modern technology to build safe, efficient aircraft."

Paul Fiduccia, Executive Director of the Sport Aircraft Manufacturers Association (SAMA) and leader of the EAA/Industry Team, hopes that airplanes produced under the program would reduce the product liability costs that prevent most general aviation manufacturer from producing small, single-engine airplanes because of the costs

"The simplified design and industry experts.

certification would help the liability problem," Fiduccia said, "If any problems are discovered, a manufacturer in this category would have the flexibility to fix it quickly. We would hope to reduce the liability factor by having safer airplanes and pilots who are trained better, so we never get to the lawyers."

It is hoped the first three aircraft and/or powerplants manufactured using the new compliance standards will be ready for certification in 1993. Fiduccia and Colomy indicated that they did not believe President-elect Bill Clinton's administration would change the program.

The program was the product of more than two years of meetings between FAA officials, EAA, SAMA and a team of small airplane

General aviation groups meet with FAA

EAA Press Bioleana

Experimental Aircraft Association (EAA) President, Tom Poberezny, recognized Federal Aviation Administration (FAA) officials for their continued efforts to increase support for general aviation.

Poberezny and representatives of the nation's other leading general aviation organizations met with FAA Administrator Thomas Associate Richards and Administrator for Regulations and Certification Tony Broderick in carly November to voice support for provisions of FAA's General Aviation Action Plan.

"We appland FAA's continued willingness to include general and sport aviation groups as part of the process making aviation more accessible to those who wish to participate," Pobererny said. "With the number of critical issues facing general aviation it is more important than ever to keep the lines of comunication with federal aviation officials open."

Poberezny cited the Small Airplane Certification Program introduced at the 1992 EAA Fly-In Convention in Oshkosh, Wis. as evidence of the renewed ability of the FAA, aviation organizations and aircraft manufacturers to work together.

"That program was a great step forward, proving that the three entities could cooperate to support general and sport aviation," Poberezny said. "The meeting between the leading aviation organizations in the nation and FAA continues to show that we are all determined to achieve the same goal the expansion of safe aviation throughout the country."

Other organizations represented at the meeting included the National Business Aircraft Association (NBAA); Aircraft Owners and Pilots Association (AOPA); General Aviation Manufacturers Association National (GAMA); Association Transportation (NATA); National Association of State Aviation Officials (NASAO): Sport Aircraft Manufacturers Association (SAMA); and Helicopter Association International (HAI).

The group addressed a number of items relating to the General Aviation Action Plan and expressed particular interest in issues that could be addressed during 1993.

Hopefully, progress will be made so that general aviation and sport aviation will again be able to grow.

These efforts are very important, allowing more people to be able to become involved in aviation.

Poberezny has put in a lot of time and effort in order to preserve sport and general aviation.

Lockheed celebrates 25 years of low speeed wind tunnel testing

Lockfood Power Balonses

MARIETA, Ga. -- Lockhood Aeronautical Systems Company's Low Speed Wind Tunnel, billed as one of the targest privately-owned perospace wind tunnels in the world, colebrates its 25th anniversary this

When the tunnel was designed and built in the late 1960s, it was intended for use in support of vertical and short take-off and landing (V/STOL) transport aircraft.

When the V/STOL projects did not materialize, the facility was focused on conventional aircraft. development programs and non-aerospace test technologies.

The first test for the automotive

commercial business opened which helped to establish Lockheed as a premier testing site. The Low Speed Wind Tunnel is

used for aerodynamic and leads testing of a variety of products, ranging from aerospace models of transports to advanced fighters, such as the P-22, to family cars, rail cars, satellites, exotic cars and even carpet

In the past 25 years, we have completed more than 57,000 hours of wind manel testing for more than measuring beams and electronics 70 commercial customers and 20 Lockheed programs.

This year the test load increased 50 percent over that of 1991 with the addition of new work created from the transfer of major Lockheed aircraft programs to Georgia.

The wind tunnel is powered by a 9,000 horsepower electric motor industry was conducted in 1968 and inside a round tubular portion of the

The motor drives a six-bladed fan that is 39 feet in diameter and can produce winds up to 200 miles per

It has a circuit center line length of 780.5 feet.

Wind generated inside recirculates continuously for energy officiency

The facility has been renovated and modernized over the years to incorporate new technology.

In 1985, the external balance were updated, and the main drive motor control system was converted to a solid state slip recovery system.

Also, the main drive motor was rewound in 1990.

In the past few years new additions were included, such as electronic scanivalves which allow for a quicker read of data points, and a sting support system for high angle of muck model testing.



This wind tunnel put in 25 years of service for Lockheed and has been used in a variety of projects.

with that test an extensive tunnel. Mudry Aviation hosts grand opening of new facility

By Montaine Mallet

Micky Aviation LTD. Press Release

Mudry Aviation LTD, and the French Connection Airshow gave a party, Friday, Novomber 20 to celebrate the Grand Opening of their new 6,300 sq. ft hangar/school facility at the Flagler County Airport in Bunnell, Ft.

Although the weather threatened to close in all day, skies broke just in time for the husband and wife team of Daniel Heligoin and Montaine Mallet to start the festivities with a private demonstration of their full airshow

Afterwards, along with dinner, there were several presentations recognizing the help and support from the local community in the realization of Daniel and Montaine's

long-time dream. In attendance were several local county officials, as well as the Airport Manager and other airport

business operators. Bric Doten, of Embry-Riddle Aeronautical University, was recognized for his support as

Montaine announced that an elective gredit tailwheel and aerobatic course for students at Embry-Riddle could be available on January 1, 1993. Students will commute from nearby Daytona Beach to receive training at Mudry Aviation in the J-3 Cob and the CAP 10B. This is but one of the many ways

Daniel and Montaine have planned to expand in the near future, since moving to Flagler County last Since completion of their new

facility on September 1, they have also planned to create a new "pure primary" flight training course in the J-3 Cub which will hopefully lead atudents to a recreational or private pilot certificate.

Further expansion of the aerobatic school is planned as well, with the training of additional instructors as the student load increases. Within the next year, Daniel and Montaine would also like to be able to expand on the level of service available to the owners of the various Mudry Aircraft such as the CAP IOB and World Aerobatic Champion Class

Mudry Aviation Ltd now offers a



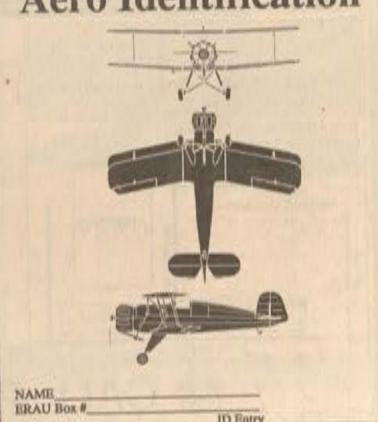
The CAP 10B, flown by the French Connection, are stock aircraft. The school will be offering tailwheel and aerobatic elective courses for ERAU students next semester.

year-round Aerobatic training beginners on up to aspicing 231 and the new CAP 231EX. competition pilots, as well as tailwheol training and initial 437-9700. primary training in the J-3 Cub.

They are also the distributors for program in the CAP 10B, for the Avion's Mudry CAP 10B, CAP

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publication staff and their families are not eligible.

Discovery set to lift off today as last shuttle flight of the year

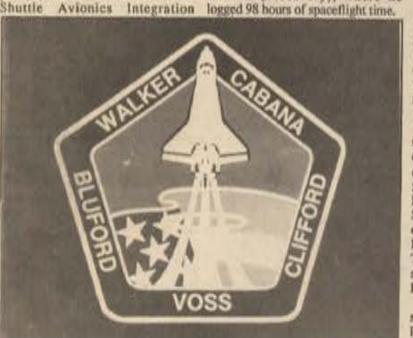
By Arle Moller Space Technology Reporter

This morning the Space Shuttle Discovery (STS-53) was scheduled to take off from launch pad 39A at 6:59 a.m. Discovery is scheduled for a seven day mission. The manifest for the flight includes a Department of Defense classified payload as the primary cargo, two secondary payloads and nine middeck experiments.

Discovery will be commanded by Captain David M. Walker (USN). Captain Walker has had a long history with NASA. He became an astronaut in August 1979. Assignments within NASA include Astronaut Safety Officer, Deputy Chief of Aircraft Operations, STS-1 chase

Laboratory, mission support crew at Kennedy Space Center, and Space Station design and development. In addition, Walker has flown two previous shuttle missions, STS 51-A (Discovery) where Walker served as pilot, and STS-30 (Atlantis), where he served as mission commander. Walker has logged 289 hours of spaceflight time.

STS-53 is being piloted by Colonel Robert D. Cabana (USMC). Cabana was slotted to become an astronaut in July of 1986. After training, Cabana served as Astronaut Office Space Shuttle Flight Software coordinator, Deputy Chief of Aircraft Flight Operations for the Johnson Space Center, and Lead Astronaut in the Shuttle Avionics Integration Laboratory, Cabana's only shuttle flight mission to date is pilot, software verification at the STS-41 (Discovery), where he



Designed by the crewmembers, the STS-53 insignia shows the Space Shuttle Discovery rising to new achievements as it trails the symbol of the Astronaut office against a backdrop of the American flag. The five stars and three stripes also serve to symbolize the mission designation (STS-53) and America's continuing commitment of world leadership in space. The pentagonal shape of the patch represents the Department of Defense and its support of the space shuttle program. The band delineating the flag from space includes the four colors of the military services of the crewmembers.

Colonel Guion S. Bluford (USAF) Spheres (ODERACS), and the is serving as one of the mission specialist. Selected for astronaut duty in August of 1979, Bluford has the most spaceflight time of the STS-53 crew, having logged 513 hours in space. NASA experience includes working on the Remote Manipulator System, Spacelab 3 experiments, Space Shuttle systems, and verifying flight software in the Shuttle Avionics Integration Laboratory. Bluford has flown a total of three missions to date. The missions were STS-8 (Challenger), STS 61-A (Challenger), and STS-39 (Discovery). Bluford served as a mission specialist on all three flights.

The second mission specialist is Lt. Colonel James S. Voss (USA). Voss has been an astronaut since November of 1984. Experience includes Vehicle Integration Test Engineer for the shuttle, shuttle payload testing, participated in the investigation into the STS 51-L. (Challenger) accident, and flight crew representative for shuttle safety. Voss has been on one previous mission, STS-44 (Atlantis), logging 166 hours in space.

The third mission specialist is Lt. Colonel Michael R. Clifford (USA). Clifford became a astronaut in July of 1991, NASA experience includes Space Shuttle Vehicle Integration Engineer, design work for the Shuttle Crew Escape System, and sat on the board for the Solid Rocket Booster Post Flight Assessment Team, STS-53 will be Clifford's first spaceflight. Payloads

While the military payload is top secret, analyst John Pipe of the Federation of American Scientists believes it to be a Lacrose radar imaging satellite. This will be the last military mission for the Department of Defense. According to Air Force Lt. Col. James McLeroy of the Defense Department's Space Test Program, "It wasn't worth the cost considering how few military shuttle missions were planned," The cost to maintain secrecy per year was \$50 million. The military plans to use unmanned rocket boosters for future DoD missions.

STS-53's secondary payloads are the Orbital Debris Radar Calibration

Shuttle Glow Experiment/Cryogenic Heat Pipe Experiment (GCP). ODERACS, developed by the Space Life Sciences Directorate of NASA's Johnson Spaceflight Center, will help NASA refine methods and systems for tracking orbital space debris. The experiment itself consists of two spheres for three different sizes. The two-inch spheres are made of solid stainless steel (1.17 lbs), the four-inch spheres are also made of stainless steel (9.36 lbs), and the six-inch spheres of solid aluminum (11 lbs). By tracking the objects as their orbits decay, scientiats will better understand the dynamics involved.

GCP will measure and record the effects of electrically charged particles striking the tail of the orbiter. The experiment will also test the use of supercooled liquid oxygen for cooling of electronics on board the

The cargo bay will carry nine small-scale experiments. The Battlefield Laser Acquisition Sensor Test (BLAST), will test the feasibility of using a satellite as a positioning uplink for ground based troops to a command post. Data will be displayed in real-time on the shuttle flight deck window as well as being recorded for the Department of

The Clouds Logic to Optimize Use of Defense Systems (CLOUDS) will simply be a photographic survey of cloud features. As the shuttle passes over a formation of interest, one of the astronauts will take a series of photographs of the formation. By analyzing the cloud cover as a function of the angle of the photo, meteorologists can predict cloud density from satellite photos.

The Cosmic Radiation Effects and Activation Monitor (CREAM) will collect data on cosmic ray levels in the middeck of the orbiter. The experiment was provided by the United Kingdom Defense Research

The Radiation Monitoring Equipment III (RME-III) is very similar to the CREAM experiment, but monitors the cosmic ray exposure that the astronauts experience.

The Fluid Acquisition and record the image and find its Intitude



The five astronauts assigned to fly aboard the Space Shuttle Discovery for the STS-53 mission pose for the customary crew portrait in the new Space Center Houston facility. Pictured are, left to right (front), Guion S. Bluford and James S. Voss, mission specialists; and (back row) David M. Walker, mission commander; Robert D. Cabana, pilot and Michael R.U. Clifford, mission specialist.

test the effects of microgravity on fluid flow. This experiment tests a device who's function is to transfer vapor-free liquids through shuttle systems. The device uses the surface tension of liquids to control flow through the tank.

The Hand-Held, Real Time, Cooperative, User-friendly, Location-targeting and Environmental System (HERCULES), is a drugs. modified camera that allows the user to point it at a feature on Earth,

Resupply Equipment (FARE), will and longitude within two nautical miles. This project is a joint experiment by the Navy, Army and NASA,

> The Microencapsulation In Space (MIS) experiment will test the theory that microcapsules made in space will be of superior quality to those made on Earth. Testing will use the antibiotic ampicillin. Microcapsules are used in everything from scratch and sniff stickers to long-release

The Space Tissue Loss (STL)

see Discovery, page 88

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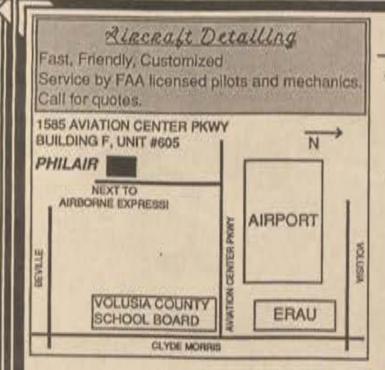
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NASA takes space exploration to new heights in '92

Columbia, Discovery, Atlantis and Endeavour bring shuttle program back up to full speed

By Brian Gamage Space Technology Reporter

The National Aeronautics and Space Administration (NASA) executed another series of successful space shuttle launches this year, Included in 1992's accomplishments were the maiden voyage of Endeavour, a spectacular satellite recovery, longer shuttle missions, a Noah's Ark-like crew of animals and the 13th flight of Columbia, the fleet's oldest shuttle.

The shuttle program successfully completed eight launches and landings using all four of the orbiters in 1992, the most ambitious flight schedule since the Challenger disaster in 1986 that halted space shuttle operations for almost three years.

The shuttle program began its permanent landing site transition in

The dry lake bed at Edwards Air Force Base (EAFB), which has been the primary landing site since the fleet's inception, was only used twice this year. Instead, six of the orbiters landed at the Shuttle Landing Facility (SLF) at Kennedy Space Center (KSC) and saved NASA approximately \$1 million each time.

Three of the shuttles in 1992 were new and improved versions of the originals, equipped with extended mission capabilities and drag chures, Atlantis is currently undergoing the same overhaul modifications and should be readmitted to the active flect some time next year.

1992 proved to be a very exciting year in space and 1993 will undoubtedly continue excitement.

The orbiter Discovery lifted off launch pad 39-A on January 22 and climbed to one of the highest inclinations ever, carrying Spacelab and the first female Canadian astronaut

During the mission, the crew spent most of their time conducting non-stop space sickness experiments and Discovery landed a day later

"We're going to do whatever it takes to get the science,"

Astronaut David Hilmers sald of the scientific research conducted on STS-42

than scheduled to allow more of the experiments to be performed.

One of the experiments involved astronauts sitting in a rotating chair while their legs were zapped with an electrical impulse. The data collected helped scientists better understand how the body is affected by weightlessness.

STS-42 was commanded by Ronald J. Grabe and piloted by Stephen S. Oswald, Mission specialists were David C. Hilmers, Norman E. Thagard, William F. Readdy, Ulf D. Merbold and Roberta L. Bondar.

Discovery landed on concrete runway 22, EAFB after a flight duration of eight days, one hour and 14 minutes.

The Space Shuttle Atlantis launched from pad 39-A on Tuesday, March 24 after a 24-hour delay, carrying the Atmosphere Laboratory for Applications and Science (ATLAS) and rookie pilot Brian Duffy into Earth orbit.

ATLAS was part of NASA's first STS-50 phase in Mission to Planet Earth, a program that will study how the atmosphere reacts to natural and human-related changes. The shuttle also carried 12 instruments from seven countries that conducted 13 experiments on the atmosphere, solar radiation and space plasma

Commander for STS-45 was Charles F. Bolden and Brian Duffy was the pilot. Mission specialists were David C. Leestma, C. Michael Ponle, Dirk D. Frimout and Byron K. Lichtenberg.

Atlantis landed on runway 33 at KSC after an eight day, 22 hour and nine minute mission.

Endeavour, the newest shuttle to enter the country's fleet of space vehicles, was launched from KSC on May 7 of this year, restoring NASA to full flight capacity. Endeavour was ordered to replace Challenger, and its first mission involved the rescue of a satellite, a fitting tribute to the lost Challenger crew.

Endeavour rendezvoused with the Intelsat satellite at an orbital height of 225 miles allowing astronauts Richard Hieb and Pierre Thuot to attempt the rescue, Unfortunately, Thuot failed his first attempt to attach a capture bar to the satellite, causing it to wobble.

Failures continued for two more days, then on the fifth flight day, the crew made space history when three astronauts exited the air lock and rescued the satellite together. STS-49 was a mission of firsts. It was the first time a satellite was captured by hand, the first three person spacewalk, and the first time a shuttle landing was assisted by a drag chute.

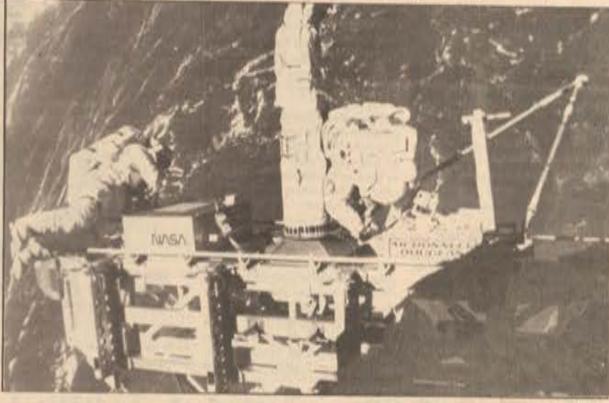
Daniel C. Brandenstein was the commander on STS-49 and the mission was piloted by Kevin P. Chilton. The list of mission specialists were Pierre J. Thuot, Kathryn C. Thornton, Richard J. Hieb, Thomas D. Akers and Bruce E. Melnick.

Endeavour landed at EAFB after an exciting mission lasting eight days, 21 hours and 17 minutes.

Space Shuttle Columbia launched from Cape Canaveral, Florida on June 25, carrying a payload of scientific experiments and an amateur radio experiment. The zero-gravity

> "Houston, I think we got a satellite."

Commander Dan Brandenstein after the successful rendezvous with the Intelsat satellite during STS-49



Astronaut Kathryn Thornton (left) and Thomas Akers are seen on the STS-49 mission's fourth period of extravehicular activity (EVA) as they work with components of the Assembly of Station by EVA Methods evaluation.

environment provided Columbia valuable data for a possible power Jerome Apt, N. Jan Davis and Dr. with an interesting testbed for valuable scientific investigations.

The United States Microgravity Laboratory performed 13 experiments ranging from manufacturing crystals to observing the behavior of weightless fluids. STS-50 was the first extended duration mission, which enabled the crew to conduct more experiments in the microgravity environment.

The extension also allowed the crew to contact more ham radio operators around the world, part of NASA's public contact and aware-

ness program. STS-50 was commanded by Richard N. Richards and piloted by Kenneth D. Bowersox, Paylond commander was Bonnie J. Dunbar. Mission specialists were Ellen S. Baker, Carl J. Meade, Lawrence J. DeLuces and Eugene H. Trinh.

Columbia landed on Runway 33 at KSC after a 13 day, 19 hour and 30 minute mission, which was the longest shuttle mission to date.

Atlantis lifted off pad 39-B on July 31, after a short delay, carrying the Italian Space Agency's Tethered Satellite, the European Space Agency's EURECA scientific satellite and an experiment platform.

The mission was not without its problems. The EURECA satellite, which is scheduled to be rescued on STS-57 in 1993, failed to enter the proper orbit and the Tethered Satellite System (TSS) experienced an almost complete failure.

A small bolt protruding into the tether reel housing prevented the satellite from being fully deployed. The bolt was an embarrassment for designers who extraneously added it to provide more support for launch without checking if the modification conflicted with the operation of the

The extended satellite was supposed to produce 5,000 votrs of electricity and provide researches with source for Space Station Freedom, as well as other uses,

Commander of STS-46 was Loren J. Shriver and the pilot was Andrew M. Allen. Payload commander was Jeffrey A. Hoffman and mission specialists were Franklin R. Chang-Diaz, Claude Nicollier, Marsha S. Ivins and Dr. Pranco Malerbo.

Atlantis landed on KSC's Runway 33 after a mission lasting seven days, 23 hours and 16 minutes.

The Space Shuttle Endeavour started its second flight on September 12, marking the 50th time the Space Transportation System faunched into Earth orbit. Endeavour carried the Spacelab-J and a special Getaway Special Experiment platform.

This was also the first time a shuttle lifted off exactly on time since November, 1985.

The mission was dedicated to Japan's space science experimentation, which was conducted on the Station Freedom. Spacelab-J module, a laboratory designed to simulate how astronauts will work on Space Station Freedom. The unusual experiments involved studying how frog eggs develop in zero-gravity, how homets build nests without the guidance of gravity and how Japanese carp, chicken embryos and fruit flies react to weightlessness.

In command of STS-47 was Robert L. Gibson and the pilot was Cartis L. Brown, Jr. Payload specialist was Mamoru Mohri and mission specialists were Mark. C. Lcc.

"I got to tell you, this is a great way to commute to work."

Astronaut Jay Apt radioing mission control after reaching orbit on STS-47

Mae C. Jemison.

Endeavour landed at KSC after a seven day, 22 hour and 31 minute

STS-52

Columbia lifted off launch pad 39-B on October 22, after nearly a two hour delay, carrying the LAGEOS satellite, the United States Microgravity Payload (USMP) and the Canadian-run CANEX-2.

STS-52 was Columbia's 13th flight into space, the second time USMP flew on a shuttle and the third time a Canadian astronaut joined a shuttle crew. The LAGEOS satellite will be used to laser range the changes in the Earth's crust, which will help scientists understand the science of plate tectonics.

Canadian payload specialist Steven MacLean performed experiments with the Remote Manipulator System, which will help in the implementing of procedures for Canada's contribution to Space

Commander of STS-52 was James D. Wetherbee and pilot was Michael A. Baker. Canadian payload specialist was Steven Maclean and mission specialists were William M. Sheperd, Tamara E. Jernigan and Charles Lucy Veach.

Columbia landed on Runway 33 at KSC after a nine day, 20 hour and 56 minute mission.

STS-53

The Space Shuttle Discovery is scheduled to launch today on its 15th flight into orbit.

Discovery is commanded by David M. Walker, piloted by Robert D. Cabana, and the mission specialists are Ouion S. Bluford, James S. Voss and Michael Richard Clifford.

This will be the last space shuttle flight of the year and the 10th and final flight for the Department of Defense, which will now use unmanned rockets for its payloads.

see related story on page B2



The Space Shuttle Endeavour returned to the Kennedy Space Center on September 20 to end STS-47 and the 50th space shuttle flight. Endeavour was the first shuttle outfitted with a drag chute to assist in landing.

Flight:	Launch Dates	Orbiter:	Duration: Landing:	Primary Payload:	Crew:
STS-54	January	Endeavour	6 days KSC	Tracking and Data Relay Satellite (TDRS-06)	John H. Casper; Donald R. McMonagle; Gregory J. Harbaugh Mario Runco; Susan J. Helms
STS-55	Pebruary	Columbia	9 days KSC	Second German Spacelab mission	Steve Nagel; Tom Henricks; Jerry I Ross; Charles Precourt; Bernard A Harris Jr.; Hans Schlegel; Ulrich Walter
STS-56	March	Discovery	8 days KSC	X-ray astronomy experiments on freeflyer	Kenneth Cameron; Stephen S. Oswald; Kenneth D. Cockrell; Michael Foale; Ellen Ochon
STS-57	April/May	Endeavour	7 days KSC	EURECA retrieval Spacehab-01	Ronald J. Grabe; Brian J. Duffy; G David Low; Janice H. Voss; Nancy Sherlock; Peter J.K. Wisoff
STS-51	June/July	Discovery	9 days KSC	Advanced Communications Technology Satellite	Frank L., Culbertson Jr.; William F Readdy; Daniel W., Bursch; James I Newman; Carl E., Walz
STS-58	August/September	Columbia	13 days EAFB	Spacelab Life Sciences-2	John Blaha; Richard Searfoss; Rhea Seddon; Shannon Lucid; Bill McArthur Jr.; David Wolf
STS-60	November	Discovery	7 daya KSC	Spacehab-2, Wake Shield Pacifity-01	To Be Determined US/Russian crew exchange flight
STS-61	December	Endeavour	8 days KSC	Hubble Space Telescope optical correction	Story Musgrave; Tom Akers; Jeffre A. Hoffman; Kathryn C. Thornton Commander/pilot To Be Determine

Some notes on this schedule: This is an unofficial space shuttle launch schedule covering the period of January 1993 through December 1993. Crew listings name commanders first, then pilots, then mission and payload specialists. Official launch dates are set at the Flight Readiness Review.



Aligned straight on with the approach lights, the Space Shuttle Columbia glides toward Runway 33 of the Kennedy Space Center's Shuttle Landing Facility to complete the STS-52 mission last month. In all, five flights ended at the Shuttle Landing Facility, located less than five miles from the sea side launch pads.

book in the ever increasing

Public Enemy releases their Greatest Misses

By Douglas Schultz

Diversions Writer

Public Enemy is in the house! "What?...What , Who?...Greatest Misses? We ain't going out like that. Yol Terminator X, put a power move on them show 'em what you got!

And he does, Public Enemy's new album hit number 13 on the Billboard Top 200 albums just ten days after its debut. It was the highest ranking debut of the week, selling over 600,000 units.

P.E. is Jay master Jay, The one and only Terminator X, Chuck D and Playor-Flav doing their thing, telling history, and not his story.

As we all know P.E. is known for its Pro-Radical mixes, and they don't let us down this time either. In their now album, Greatest Misses, they hit us with five new iron-cased Runner," "Ges Off My Back," "Gotta to hold us back."

Do What I Gotta Do," "Air Hoodlum," and "Hazy Shade of Criminal," and for a bonus there is a sixth song "Shot Em Down" but this is only on selected albums, Like always, P.E. comes in "Louder Than

This album also features seven radically remixed hits: "Megablast," "Party for Your Right To Fight," and several others; each one softer, not as hard as the original, but still as effective. This album has 13 tracks and lacks nothing, with P.E. going straight for the threat of "Crime" in America-only P.E. style,

For all you P.E. fans, Public Enemy Greatest Misses does not miss a beat and is right on target so "Yo! Burn rush the show" and pick yourself up a copy of one of their best. For all you non-fans, take a gander over and sample P.E., you might be surprised, but no matter songs; like "Tie Goes To The what, "It takes a nation of millions



a walk down the wilderness trail."

on his guitar while playing.

string during the encore,

group therapy, as he called it.

drum set, Rodney gave the audience

talking to the audience to how Sonic

Youth would handle the same situa-

He also compared how he was

Rodney also explained to the

audience how he just got to watch

about ten minutes of the television

show "Melrose place," and how

much he liked the show. Especially

since Jasper played Jake on the

show, "How do you talk to an

As for the theme song for the

Rodney said they wrote the song,

but when they wrote it, the title was

"How do you talk to the Devil." He

joked about how the network made

The Dead Milkmen are Rodney

Amadeua Anonymous on vocals,

Lord Maniac on bass, Jasper Thread

on guitar and vocals and Dean Clean

show, or so he thought.

them change the title.

Angel,

on drums.

The all too familier Public Enemy silouette adorns the front cover of their "Greatest Misses" album.

The Dead Milkmen and their "Bitchin' Camero"

By Shawn Mc Bride **Diversions Writer**

After our first venture to the Barbarella for Babes in Toyland, and the underground scene, we were happy to go back.

This time it was for the classic band, the Dead Milkmen.

The band played tracks from all

of their albums, including massages for Murphy Brown.

Some of the classics that the Dead Milkmen played included "Bitchin Camero" and "Beach Party Vietnam" from the first album.

From the second album, Beelzebubba, they played "Stuart" and my personal favorite, "Punk Rock Girl," among others.

At one point in the beginning,

Rodney talked to the audience about and the audience to know, when you teenagers and sex. He explained talk about having sex, say "You took how kids will do it anywhere, like he did on the wilderness trail at Walt Diancy World.

He also explained how there should be condom machines along the trail. As a tip for those who decide to try the wilderness trail, he said don't be on the bottom.

As a secret slogan for only him



The Dead Milkmen.

Miss World establishes a really cool ultralight blue kinda color blah!

By Rick Arkwright **Diversions Writer**

Miss World is truly a disturbing

experience. Why, you say?

Well, I'll tell you. The eyes receive the initial shock long before the ears. The cover photo features lead singer/songwriter Jonathan Perkins standing protectively next to a young girl no more than eight years old, dressed in a tutu and made up like a Times Square

booker, sitting provocatively on a bench-Miss World herself I presume. With this sort of package you just know this album could be a strange one.

The band's lineage is a bit of a surprise as well. Perkins spent three years with what was to become XTC, leaving after Andy Partridge refused to let him write songs for that bond.

After playing with several joined forces with New Zealand guitarist Jimmy Taylor, bassist Peter Noone (no, not Herman of Herman's Hermits), and former Pretender's drummer Martin Chambers.

a collection of songs that you could swear you've heard somewhere before. Perkins has a strikingly deep and husky voice reminiscent of Lou Reed or Iggy Pop and there's a definite debt owed to Velvet Underground, New York Dolls and similar late '60s influences as well,

The first three cuts on the album, The First Female Serial Killer," "Nine Steps To Nowhere," and "Watch That Man Weep," establish Miss World as a band with solid chops and the ability to put a new spin on an old sound. Grounded in the standard drum, bass, guitar and keyboard foundation, Miss World throws in a few surprises when least

Not the least of which is "What A Wonderful World," a cover of the famous ballad which has been performed by no less a legend than Louis Armstrong.

Perkins, in fine Ed Ames form, obscure British groups, Perkins earnestly belts out this chestnut while the band plays it straight till, WHAM, an explosion punctuates the last chorus of Perkins singing "and I think to myself, what a wonderful world," the song then in a while GRADE: B+

This rather eclectic lot has put out segues neatly into "British Pharmaceuticals.'

"British Pharmaceuticals," with its burbling keyboard and The-Cure-meet-Sex-Pixtols sound is no less than weird. Perkins singing in a loopy, sing-song voice about "feeling very beautiful after taking pharmaceuticals" soon takes a dark turn. becoming an indictment of his personal faith and the Holy Ones he'd had faith in. This is powerful and thought provoking stuff.

Other notable cuts such as "Highway Of Dead Roads," Troubled Blood" and "Dead Flowers," touch on similar themes of despair and pain, yet never become whiny pleas for help, but, rather declarations of fact. Perkins calls' writing his therapy and the world can rest easier knowing that this man's found a release for these

This disc isn't for everyone, but what is? Good rock with a classic feel to it, and lyrics that'll both repel and attract you. Miss World is somehow different and familiar at the same time. A bit disturbing yes, but it's good to be disturbed a little once

Hellraiser III: Hell On Earth soundtrack made up for a good story that failed on screen

By Douglas O. Fischer

Disensione Wilter

Recalling on how much of a disappointment this movie was to me compared to the previous two, it was not until I listened to the soundtrack when I realized that the rock/alternative music was what kept me in the

The soundtrack, released by Victory music, is a compilation of

11 songs. The title song,"Hellraiser," was rerecorded by Motorhead for the movie. Motorhead also wrote "Hell

you may also recall that "Hellraiser" appeared on Ozzy Osbourne's last album, Lemmy Kilmeister and Ozzy co-wrote the song.

Ten Inch Men have their song "Go With Me," from their Victory records debut, Pretty Vultures, on this sound track, Pretty Vultures is a real cool debut worth checking out. Material Issue's "What Girls Want," and Electric Love Hogs, rocker "I Feel Like Steve," were also chosen

to on this soundtrack, Longtime rockers Triumph have for the movie.

on Earth" for the movie. Some of their song "Traublemaker," on the disc. KMFDM's "Ooh La La," was written and recorded for the movie.

Tin Machine's "Baby Universal," adds to the list of cool songs preced-

Song number eight is "Divine Thing," by the Soup Dragons, This is a real crowd surfing song, and the list grows by one with The House Of Lords' rocker "Down Down Down."

Finally, Chainsaw Kittens put the wraps on a real cool soundtrack with, "Waltzing With a Jaguar," another fine song written espically

By Boyd Kelly Diversion Follow "Anything that happens, happens," it says on the first page of Douglas Adams' Mostly Harmless,

Mostly Harmless is the fifth book in the Hitchhiker's Guide To The Galaxy series and Adams' tenth book. I imagine there were a lot more baths to get this one out.

If you are not familiar with the series, then I don't recommend reading much further than this, unless you have a complete understanding of things like the Bug Blatter Beast of Trail, why 42 is generally accepted as the answer to life, the universe and everything and temporal reverse engineering.

If you are familiar, you are probably ready to go and buy it right now. This is an essential part of the collection and, unfortunately, defeats the purpose of all the complete versions and omnibus versions that were printed.

The book, for the most part, starts off on Earth. This presents many problems immediatel, but, like most Adams' books, adds to the mystery.

In usual Adams style, the first thirteen or so chapters really have During the concert, the band was nothing to do with each other and, having trouble with breaking things. basically, chronical the events that First, Jasper Thread broke the strap have been happening to Arthur Dent, Ford Prefect, Trillian, Tricia Next, Dean Clean broke one of McMillan, Fenchurch and a few the drums in his drum set. This was other characters including Arthur's followed by the breaking of a guitar While the stage crew repaired the

By chapter twenty-two, things are coming together, but that's the chapter where we find out that Elvis really was taken off Earth by aliens and is touring the universe playing in diners and such.

Arthur spends a great deal of time trying to find a planet that is a lot like Earth and involves great travelling, which is payed for, mostly, by donations to DNA and sperm banks. During this time, he ends up in many precarious positions but feigns them because he knows that he cannot die until he reaches Stavromula Beta (Life, The Universe and Everything, chapter 18).

Ford is involved in uncovering a sinister plot by the Infi-dim Corporation to restructure the whole Hitchhiker's Guide To The Galaxy.

This, strangely, involves the Vogons and a strange race of people known as Grebulons.

The Grebulons have been sitting on the tenth planet from our sun, known as Rupert, and are completely interested in astrology and water-

Hitchhikers Guide trilogy ing television and, in fact, just about everything. They are a clover race that moniters. What they are monitering, no one is quite sure, but they monitor it all, every last little thing.

Trilliao is an intergalactic reporter and Tricia McMillan is the alter-life that Trillian would have led if the hadn't left Earth. The Grebulons end up kidnapping Tricia and the book really runs around from there.

In a way, it seems like this is an end to the story. I didn't expect the book to be written or it to end, if it has. There isn't much from Adams on why he wrote it, but I imagine that it may have to do with everyone always asking for another book.

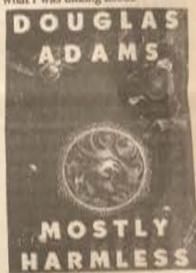
Well, this is it. It's good if you anticipating another Hischhiker's book and bad if you were expecting a Dirk Gentley book or perhaps something new,

For those of you who remember, or got a chance to read it, Admas released his first non-fiction book called Last chance To See, It is a book about endangered species and was also quite humorous. It would be nice to see more like this from

Anyway, I digress. The book lacks two major characters that have been part of the big picture. Marvin the Paranoid Android and Zaphod Beeblebrox are both missing from this book.

Of course, they went through some harrowing experiences. The book isn't bad, yet it is a little reminiscent of So Long and Thanks for All the Fish. There isn't much of a new development in the story and, in fact, this book could have happened before the others.

Well, you'll have to read it to really understand, I don't really want to give away too much because, well, it would take too much to explain what I was talking about



CLARKE'S CORNER:

"X" is a perfect ten

By George Clarke Diversitate Marrie Critic

Rainy Sunday afternoons are perfect times for historical docudramas, and I took full advantage of last Sunday afternoon's gloom to take in Spike Lee's newest joint, "Malcolm X."

The film is a three and a half hour whopper epic spanning the life of one of the twentieth century's most controversial civil rights leaders. No, strike that. He was the twentieth century's most controversial civil rights leader.

Denzel Washington plays the title role of Malcolm Little, and the film begins in Boston during World War II, with Malcolm and his friend Shorty (Lee) zoot-suiting their lives away as night-club swingers. The two try to adopt the style of white society, taking on the clothes, attitudes, even the look of the day's popular-and Caucasianculture. Little goes so far as to have his hair straightened (a painful rite of passage that turns out to be highly symbolic during the film).

They even go after the blondest, fairest, and most blue-eyed women they can find. They blend in-at least as far as their color will allow, which it turns out is not too far in the 1940s.

Eventually the two get involved in small-time hustling, a vocation which leads them straight to jail. It is here where Little is introduced to the Nation of Islam, a militant sect whose goal seems unclear but whose creed presses for autonomy and segregation for Afro-Americans.

In addition, they apparently teach that all white men are to be considered evil. For a man beaten down and battered by whites all of his life, joining a group like this seems a pretty good idea to

Malcolm, and through a series of very convincing (and circular) arguments from a Muslim jail mate (Little is shown that the dictionary's very definitions of "white" and "black" are inherently racist) Malcolm is converted. He changes his last name to "X"-symbolizing his break from white society; after all, "Little" was just the name of an ancestor's master.

Malcolm X then gets out of jail and becomes the Nation of Islam's most potent and caustic voice. After a few years, he gains enough power to frighten even the leader of the movement, a scary old guy named Blijah Muhammad. Malcolm's vehement rhetoricwhich begins to sound far more militant than Muhammad had ever envisioned-arouses hatred from other leaders of the Nation of "The only thing I like integrat-

ed," X says at one point, "is my coffee." One wonders why he and Governor Wallace never became drinking buddles. Now nobody likes the guy. Whites hate him. Blacks hate him. And when X makes disparaging remarks regarding IFK's assassination, things get really nasty.

Soul-searching takes Malcolm to Mecca, where he has a change of heart and decides that, bey, white folks aren't that bad. He comes back to America and begins again, now not quite so militant, not quite so vehement, not quite so hateful. He begins preaching, supporting racial harmony and praying for an end to the strife that has divided this nation since its creation,

"Malcolm X" is well done. The script, by Lee and Terence Blanchard, sheds light on a figure who, I must admit, was an enigma to me before the lights dimmed at the theater.

The screenplay is a wonderful analysis of the motives of this larger-than-life contemporary American figure. His hatred and bitterness are clearly defined; I would have done the same things had I been in his shoes.

The set design and costumes are exquisite; every detail of the '40s through the '60s are perfectly recreated. I couldn't find a single flaw. The direction is good, except for a few confusing shots and an injection of that Spike Lee disjointed crooked-angle new-wave Nike commercial style that we've seen from this filmmeister before. And hats off to Denzel Washington, who delivers a mesmerizing performance as Malcolm X. His expressions and mannerisms say so much more about his character than do the words he speaks. Washington has got to be one of today's best actors, hands down. I smell as

Keep an eye out for cameou from Al Sharpton and (no way!) Nelson

"Malcolm X" is an entertaining film. But more importantly, it is a relevant film.

The life of Malcolm X-his hatred and rejection and grudging semi-acceptance of society-almost seems to parallel the history of black/white relations in America. This is no accident. And if one watches carefully, one can see a message being conveyed here. Every scene; indeed, every moment of the movie is a lesson taught to the audience. The message may be disputed, but Malcolm X's contributions to civil rights and the American psyche are very clear,

The movie ends with his death, but it is quite easy to see-as the film suggests-that in burial, Malcolm X was more than a man; he was a seed.

Four books were released with "Dracula"

By Boyd Kelly Directions Editor

Well, I promised to tell you all about the neat books that were being released in conjunction with Prancis Ford Coppola's Dracula, so, here

The first and foremost book, is the companion to the movie. Newmarket press released Bram Stoker's Dracula: The Film and The Legend. This is a good book if you liked the movie.

It includes the entire screenplay, as written by James V, Hart (Hook), many pictures and a whole bunch of other neat stuff,

There is an introduction from Coppola and Hart and an afterward by Gothicist Leonard Wolf,

Wolf is the author of A Dream of Dracula and The Annotated

He has his own theory on the story, "Readers and filmgoers recognize that Dracula is attractive precisely because he represents the dark side of our own nature. We live in an age that admires energy and power and we know more about erotic fantasies than may be good for us. No wonder we are glad to see him stopped in film-and forever."

There is a short history of Bram Stoker's life in the beginning. This is an important piece for history buffs and proves to those non-believers that they really did follow the origi-

In addition to stoker's life, the book is interspersed with outtakes from his original novel and his own personal notes.

The entire screenplay is included with angels and shots and even Coppelas personal notes. Thereare over 160 photos, paintings, and drawings-with 100 of them in full vivid color.

There is also a fot of information on the films production and sets. for instance, they used 6 soundstages to create 58 separate sets. All the special effects were done the old-fashioned way and without computers. Coppola's son, Roman, was in



The Newmarket Press companion book to "Bram Stokers Dracula."

charge of the visual effects unit. It with suites, and I was just thrilled to also explains Coppolas use of electronic editing and how he edited the movie while it was being filmed.

James Hart explains in his introduction why he did Dracula again: "My response was always the same: because the real Dracula has never been done. Anyone who has read Bram Stoker's brilliant, crotic. Gothic novel can understand that my answer was not meant to be arrogant, but rather reverent of Stoker's literary classic."

Both Coppola and Hart had a long fascination with the subject. Hart started this screenplay in 1977, Coppola remembers reading the novel out loud to students when he was a drama camp counselor he says: "I remember as a kid going to the Encyclopedia Britannica to look up Dracula-and there he was, Vlad the Impaler. I read about this fiery guy, how he literally stopped the Turks by impaling his own people

think he really existed.

For a lighter fare, Signet/Penguin USA will re-release the original Bram Stoker novel with a new cover and an 8 page photo inset.

Signet will also publish Bram. Stoker's Dracula: The Novel of the film Directed by francis Ford Coppola. This novel is written by Fred Saberhagen and James V. Hart and is based on Harts screenplay.

The fourth book should be a real treat if you like fancy costumes and clothing, Coppola and Eiko on Brain Stoker's Dracula is written by Francis Ford Coppola and Eiko Ishioka. Eiko Ishioka was the films cos-

tumes designer and did an excellent job of living up to Coppola's declaration that, "The costumes will be the set." The book focuses on the costumes for the movie.

So, if you haven't already had enough of vampires, treat yourself for Christmas

Neil Young revitalizes his old style with his latest album Harvest Moon

By James D. Krueger

Diversions With

In the new age of raging electric guitars, shrilling high voices and even rap music, it's a relief that one of the originators of classic rock is still putting out the same kind of music that ensuared the hearts of millions over generations,

This album is mainly filled with the electic voice of Young, a smooth acoustic guitar, and his characteristic harmonica.

Neil's music on Harvest Moon takes me back to an era where the lyrics where the cornerstone for a great song. It reminds me of Harvest more than any other album that he has recorded.

"War of Man" is destined to reach classic status but as with any Neil Young album there is always much more than one good song. In the third song "You and Me", Neil makes references of comparison about the present and past.

"I was thinking of you and me

Making love beneath the tree And now I wonder could it be Thinkin' bout the times we had Some were good and some were

bad Guitar fightin' the TV"

Neil's comparing the relationship he has with his munic to that of a traditional man-woman alliance. He puts in a necessary evil such as the TV to pose as a catalyst and then ultimately a scapegoat for difficult

"Lookin' at you just the other

Dancin' in the evening light True love conquers all

Old man sittin' thero Touch of grey, but he don't care

When he hears his children call" In this verse it would seem that Neil has an emotional and even a paternal connection to modern music in general.

He sees himself getting older but not only does this not bother him, it elevates his self-esteem because he can see and feel a little Neil Young

in a vast majority of the music recorded today.

Harvest Moon is already a treasured member of my collection of music. From the subdeness of "One of These Days" and "Natural Beauty" to the off beat "Old King," a personal connection to the theme of each song is an easy task.

I would recommend this album to anyone, especially if you are a CSN&Y, Buffalo Springfield, or Neil Young fan, and remember, don't just listen, feel the music.

I was thinking of you and me Making love beneath the

tree And now I wonder could

it be Thinkin' 'bout the times we had

Some were good and some were bad

George Thorogood releases a brand new "baddest" compilation album

By ME SENN Diversions Writer

The Baddest Of, a very appropriate title for George Thorogood and the Destroyers' new EMI album, is a surefire fampleaser.

This excellent compilation of his "baddest" hits includes such favorites as; "I Drink Alone," "Gear Jammer," "You Talk 100 Much" (about that mouthier type girlfriend), "Move It On Over" (The I'm stuck in the dog house... again, song) and "Who Do You Love" (I gotta Cobra anake for a neck tie).

Also included in the all time favorite of Thorogood fans, "Bad To The Bonn," featured in Terminator Il. Risky Business, and Christine. "Baddest Of" would not be complete without that ballad of the I'm

left me, I guess I'll start drinking Frisco." beavily song ... "One Bourbon, One Scotch, One Beer.

Influenced by the Stones (who hasn't been?) , the J. Geils band, and by Chuck Berry, George Thorogood and the Destroyers (Steve Chrismar, Bill Blough, Jeff Simon, and Hank Carter) take their very distinctive style to the stage with a roar, making for quite a jam-

If you've ever seen them on stage, you'll love this album, it'll bring back some good memories.

If you've never seen them live, this album does great justice to capturing the energy of George Thorogood and The Destroyers, from early originals up to two previously unreleased cuts; "I'm A Steady

recently unemployed, girlfriend just Rollin' Man," and "Louie To

These two are remakes originally by Robert Johnson and Chuck Berry, respectively.

"If You Don't Start Drinkin' (I'm gonna leave)," "Treat Her Right" and "Long Gone" are some more jamboree with George hits, finishing up the Baddest Of list. When you find yourself just a lit-

tle too content to kick back and play the air guitar, The Baddesi of George Thorogood and the Destroyers will add the face contorting slide you're hurting for.

If you've ever seen them on stage, you'll love this album, It'll bring back some good memories.

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"To Hell With Love" says Suzanne Rhatigan

By Douglas O. Fisher Obsusions Writer

To Hell with Love, Suzanne Rhatigan's debut album, was released this summer by the ima'go recording company.

It was more than the good looking woman on the cover that compelled me to get this album. It was the title, the expression on Suzanne's face and the way she is within arms reach of the carving knife that made me think maybe she possesses the same attitudes about love that I do.

After listening to this rockin' blues album, there was no doubt about it, she's as fed up with men as I am with women,

To Hell With Love is better than the standard "My baby left me, my hearts broken," type blues. It's "I sent the bastard packing, get out of my face," blues.

old Irish female knows how to sing the blues of the true horrors and splendors of relationships.

I've been told that in order to sing the blues, you must live the blues. According to her biography, Suzanne did live the blues as she was growing up. Actually, she says her life is a series of misunderstand-

a shout-like scream to a seductive whisper all in the same song.

The title song, To Hell With Love, is a blues rock song with a cool groove to it. The lyrics are great... Get out of my face, boy I'm telling you. Don't leave a trace of the smell of you." The lyrics are to the point, no soft stepping around.

"Open Up," is a classy song about seduction where both parties are

"The Further We Go," is a song about keeping things from one another. "Never will we discover the truth about each other, if we keep it undercover, the further we go.' Suzanne really makes the most out of her seductive whisper singing voice during this song.

"Nearly 18," is a catchy tune about leaving home for the first

"Indian Summer," is another song One thing is for sure, this 30 year that hits close to home. "Don't say goodbye, just turn around and walk away. Just leave me to remember the times we spent together in that indian summer." In this beautiful song Suzanne is saying: Hey, It's over, I just want to remember the good

"Doddy," is an "I want to come home" type of song.

Suzanne has a beautiful voice, I Suzanne has an incredible voice wish I could have seen her on stage, relate to it, and possesses the ability to go from because she does an excellent cover



be on her second album.

I not only liked the album, I can

of "Crosstown Traffic," one of my is one of the best rock n' roll reviewcheated/ lied to/ manipulated/ deceived/ burned lately? Spend Friday night with To Hell With Love

Don't let the pretty face fool you, Suzanne Rhatigan can sing the blues with real power.

all time favorite songs. Maybe it will ers, had this to say: "Been wronged/

Elianne Hautbersberg, who I think and rest assured you're not alone."

Stone Temple Pilots present a "Maximum Rock and Roll" experience with their new album "Core"

By Douglas O. Fisher Diversions Writer

Rock and Roll," so naturally I had to inquire about obtaining a copy.

I'm glad I did, because Core, the debut album from Stone Temple Pilots, on Atlantic records, really

Coming from the San Diego California area STP is comprised of Weiland on vocals, Robert DeLeo on bass, Dean DeLeo on guitar and Eric Kretz on drums.

Weiland brings the powerful lyrics of the music to the listeners in a variety of singing styles, showing The full page ad said, "Maximum his ability to treat the voice "Like an instrument as opposed to a single

> The stereo effects enhance the heavy rock sounds of this debut.

Core handles repeated listening

In fact, after a couple of listenings, an overall message of "Hey People, Wake up, Look what's going on around you," starts to

good rocker filled with lyrics and has a killer beat to it.

"Sex Type Thing," Is about "A typical american macho jerk with a totally unoriginal attitude about women," I said I wanna get next to you, I said I'm gonna get close to you, you wouldn't want me to have to hurt you to.

I know you know whats on my mind." The guy knows the meaning of the word 'No,' he just doesn't care. "Wicked Garden," has a classic 12 songs worth checking out,

short chop rock guitar style to it "Dead and Bloated," is a real along with a lot of cool studio

"Naked Sunday," is an upbeat angst ridden song, while "Creep," is an acoustical song where Weiland's voice is clean and clear, "Plush," is an uptempo and melodic rocker with hidden meaning lurking in the lyrics

"Crackerman," is a real burner with cool studio vocal effects. This song sounds great in a room

which enhances a true stereo sound. All in all, Core is a collection of

Life after GN'R for Izzy

By Douglas O. Fisher Diversions Writer

Izzy Stradlin and The Ju Ju Hounds, released by Geffen Records, shows that there is life and music after GNR for Izzy Stradlin.

Teaming up with Rick Richards on guitar, Jimmy Ashurst on bass, Charlie "Chalo" Quintana on drums, and a bost of other guests, an album of different rock styles was record-

"Somebody Knockin," is just that, somebody knocking at my door. All kinds of people. This song has a cool guitar riff to it.

"Pressure Drop," is one of Izzy's favorite reggae songs, so instead of screwing it up they changed it to a fast rocker but left a little of the original at the end.

"Shuffle it All," has a cool bass riff and a good lead guitar spot. It is a rock song about moving around all the time and never settling down. Kind of like living out of a suite case all the time.

"Bucket O' Trouble," is a screamer with a punkish edge to it, while "Train Tracks," is about Izzy's highschool hangout spot by the railroad tracks. This song features some real good slide guitar spots.

"How Will is Go," is a little bit of a slower song about change that you can actually feel.

"Cuttin" the Rug," is a real cool song with good guitar leads. The song is about the music scene where everybody is cuttin' the rug, "A fun song about loosening up."

"Take a look at the Guy ," is from Ronnie woods' solo album and he even performs during parts of this

"Come on Now Inside," finishes up this debut. It's a soft song with a piano playing throughout. The song is about wintertime in Indiana. A time when the land is both cold and

The different styles of rock contained in this debut are worth check-

DECEMBER

Campus Paperback Bestsellers

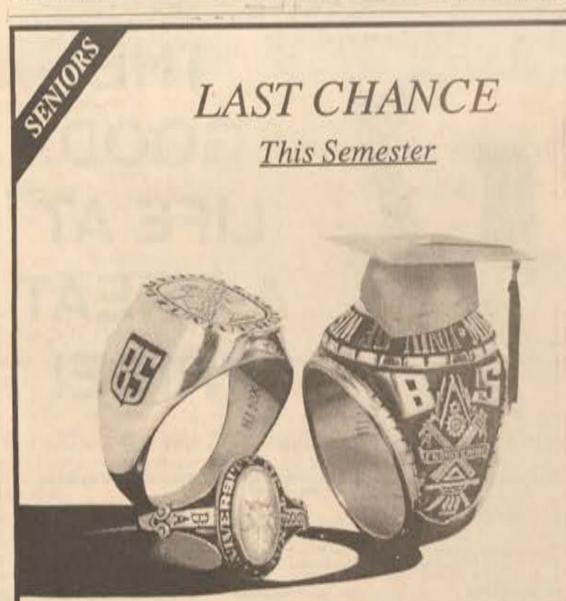
- The Indispersable Cables and Notices, by Bill Watercon (Andrews & McManl, \$18.95.) Latest colocied carbons.
- Lite's Little Instruction Book, by H. Jectson Brown J. (Rustodyn Het \$5.95.) Advice for attereng a full tile.
- 3. The Pirm, by John Grisham (history/Det. \$5.99) Young temper controves the hadon workings of his form
- 4. Live and Learn and Pass R on, by H. Jackson Brown Jr (Flutedge Hill, \$5.95.) 500 tops to achieve a full life.
- 5. Seven Habits of Highly Effective People, by Sloven R. Covey (Finance, \$9.95.) Curie to personal fulfillment.
- 6. Saint Maybe, by Arne Tyler. (by, \$5.98.) Struggles of a young man to come to terms with he, past
- United We Stand, by Rose Penot. (Hyperon. \$4.05.)
 Thoughts on how America can be rebuilt.
- A Time to Kill, by John Grishem (Hand/Dee St. 99.)
 Placed tension runs high during a trial.
- B. The Burn of All Peers, by Tom Clarcy (Beckey, 56 99.) Mickele Eastern temperate being about the Sheat of nuclear wi
- 10. A Thousand Acres, by Jane Smery (Forecall, \$12.00.) Sage of a redwestern family that runs a large industrial rem

New & Recommended

Mee 8, by Don DeLillo. (Penguin, \$11.00.) Disring novel about words. Images, noveless, terrorists, this mass minks and the arch-individualist Almanse of the Deed, by Leslie Marmon fillio. (Penguer, \$13.00) A recraft history of the American told from the point of view of the con-quired, not the conquerors. The many-layered numerical tells of the magnificent and trage story of the clean of two civilizations.

The Scremble for Africa, by Thomas Palenthim (Avor. 516.00) December Pristory of the European conquest of the concern for 1876 to 1912 bringing to the a remarkable between of explorers, posts osons, merchants, restary men and heroes.

ABBUILD TWO OF AMERICAN PLICATIONS AND PRINTED TO THE ACTION ASSESSMENT OF STREET AND ASSESSMENT AS



Order your ERAU class ring NOW and save.

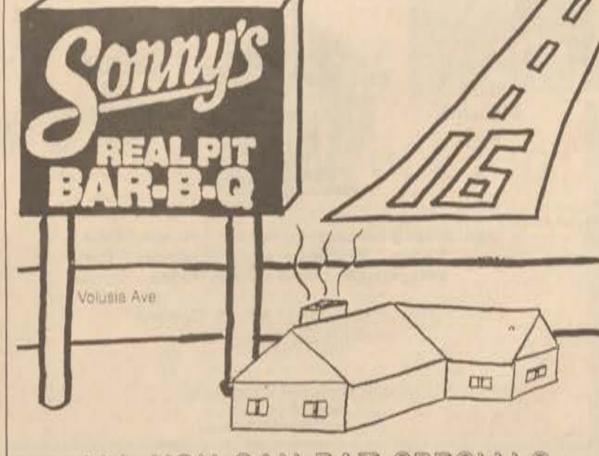
A Herff Jones representative will be on campus during cap and gown distribution

Thursday, December 10th

9 a.m. to 4 p.m.

Show your cap and gown receipt and save \$3000

HERFFJONES



ALL YOU CAN EAT SPECIALS

- Beef.........\$5.99 Mon.

Tues. - Ribs......\$6.99

Wed. - Pork......\$5.99

Thurs. - Turkey\$5.99

Sun. - Chicken \$3.99

3 LOCAL LOCATIONS TO CHOOSE FROM

1500 Volusia Daytona Beach 1840 Ridgewood South Daytona 962 Young St. Ormond

+Autos for sale

73 Cadillac it's a cruz'r, come and check it our. \$300 oho. Leave a message 248-1062.

76 Fort LTD, sugine is in excellent condition. Body needs work, \$500 obo. If interested please call 257-8918, ask for Jim or

84 Chevy Monte Carlo, V8, auto, AM/FM cassesse, cold A/C, good condition, runs great, \$220 obo. Call 255-2673.

35 Pontiac Piero, 6 cyl, PW, PM, PB, AC, tilt, new clutch, I year warrany, 53,000 obo. Call Mike 760-7183.

85 Tyota Corolla OT-S, twin cam 16 valve, 100k miles, excellent condition, five star rims. \$3,100 obo. Call Mike 258-7656.

'88 Fiero CT, V6, fully loaded, red with gold wheels, tau leather interior, \$7,500. Call Sean 760-5667.

'86 Suzuki Savage. Includes cover, service manual and saddlebags, exc. condition, perfectly maintained. Call 767-8454 or Box.

'86 Yamsha FZ600, Trailer and two helmets. \$2,000. Call Jim 257-4920.

'83 Yahama Virago, good project bike or parts. 5100 obo. Call Mitch 248-1445.

>> Roomates & Rental

Roomate wanted! Quiet neighborhood in Port Orange. Only 15 minutes to actuol. Room is partially furnished. Only \$200/month and 1/4 utilities, Call 756-1494, Hurry, it won't last long at this price!

Pemale roommate needed, available 3rd week in Dec. Rem \$142 plus 1/3 utilities and phone. Located in Morristown North. Call Malissa 760-9686.

For rent: furnished bedroom in 2 bdr. 2 bath. spari, at the Island Club Available Spring '93. Rent \$200 month neg. plus 1/3 utilities. Student needs someone to assume rent while at CO-OP, Call 756-0935 ask for James or leave message.

Island Club - Female roommuse wented to share 2 BR, 2 BA spt. 1 1/2 mile from school. Pully furnished except BR, inclds, washer, dryer in apt., dishwasher, microwave, T.V., stereo, and more. Hot usb and tennis courts in complex. Must be neat and non-smoker. Runt \$282/mo. plus 1/2 milities. Call Lies 760-

Live sheep! Port Orange mobile home for sale. Seven miles from ERAU. Three big bedrooms. Part double wide. Central air/heat. All appliances and some furniture included, \$5,500 obo. Call Mitch 761-8486.

2 bed, 2 both condo for sale. Onnond Beach, on the beach, fully furnished, big screen T.V. Want to sell condo for \$100,000, Call Jason. 677-6396.

Male or female roommete wented for the spring semester. Partly furnished spartment, 4 miles from campus, Own bedroom and bethroom. \$185/month plus 1/3 utilities. Nonmicker please, Call 255-8742.

Townhouse for sale. Only 2 miles from ERAU, 1 mile from shopping and I-4. Two levels, 2 bodrooms, 2 baths, full appliance. includes water, treats removal, pool, cable LV. Assumable mortgage. For further Mormation call 788-4343.

lornmate needed: share 2 bedr., 1 bath at Ser Apts. \$212.50 plus 1/2 utilities. Contest Fed at 252-6527.

mata needed: share 2 bedr., I both at The Apra. \$212.50 plus 1/2 utilities. Contact

Roommus needed to share 3 bedroom, 2 bathroom, clean and spacious house in Holly Hill. Call Kirst at 257-2514.

Roommate wanted, mature, responsible male or female needed to share beautiful 3. bedroom house 10 mins, from ERAU. Includes washer, dryer, A.C., cable, own room, nice quies neighborhood. Must see. 5350/mmh util. included. Call Dennis 788-

Onnoud Beach townhouse, The Trails, large 3 bedroom, 2 1/2 bath, 2 car garage, available Jan 1, short term lease okay. \$750 per month. Call 676-7872.

Needed: Female roommate for Spring Semester, \$225per month, own bedroom and bathroom. At Deerwood spts. Call 257-1430.

Forest Glen, \$200/mo. plox 1/3 utilities. Nice. location I mile from campus. Available immediately. Call 254-7981.

Roommase wanted, \$225/mo. plus 1/2 util. Large townhouse, 4 mi from IRAU, fully furnished-except 2nd bedroom. Call 760-3097 after 6pm.

+ Misc. for sale

3 helmous for sale, 2 Bell - Tearing Star \$35 a piece. 1 red haimet \$20. Call Dennis 258-

Full sim bod; only 3 months old. Call 254-

Ladies in line skates. Roller Blades beand name. White with purple wheels and purple and floorescent yellow laces. Size 9 1/2. These shates have only been worn a few times. \$75. Call Charles 274-2722.

Front and mar quick re- 1/10 chrone moly frome, Dia/comp b. and too offps. Life time guerantee. \$249. C. Charles 274-

Roller Blades brand name. In line skains, "Lightnings", these top of the line skates have "harely"been worn. Size 11 1/2. Price includes a pair of wrist guards, \$153. Call Charles 274-2722.

Awesome Christmas gift for the compter lover in your family... THE SOUNDBLASTER SOUND CARDIII Breathes new life into your old games. Untire kit with box, books, and software for IBM and compatibles. It cost me well over the messly \$50 I'm asking, so don't complain. Dan 254-0898.

Tippman SL68-II paintgun, comm with C/A tank, 40 round loader and an extra sniper Barrel, excellent condition. \$150. Call 767-

Couch-\$75, desk-\$50, lawn chair-\$10, wicker grill-510, full size bed-\$125, posters 51-510 ea., shelf lamp-\$5, TV stand-\$10. Call Liz or Ray 761-8140.

Doen size refrigurator, stands 3 ft. tall. Keeps beverages real cold. \$50. Call Jay 322-2744.

B-size plotter for autocad. Tektronia model #4662, single pen with Tplot software for ACAD. Includes: serial cable (home made) zome pens. \$350. Call 767-9631.

Jeep soft top conventable to Safari top or Bikini Top. \$500 obo. Call Ray or Liz 761-

King size waterbed with headboard, hester and rails \$125, 19" color T.V. \$100, 12 piece sectional sofs, \$1,500 new, owned 2 1/2 years, will sell \$400. Graduating, must sell, Call 255-2673.

Remote helicopter- 4 units-O.S. mex engine, original blue prints, \$300 obo. Call Mike 750-7183.

Mach 10 Body board with installed fins and leash, flippers, in great condition. Retail \$160 will sell for 575 obe. Call MAII 257-4376 or Box 1443.

Multi-engine flight training or boor building. Fly at your convenience. \$85 hr dual / \$75 dual block time. This is not time-sharing and is the best price in Daytona. Call Mike or Jack at 756-1494.

JVC CD player \$50; Aiwa ponalsis stereo with dual cassetts and CD adaptability 575; weight bench with about 100 or more lbs \$40. Call 760-1630.

Guitar, case ad amp Wazithum G-3v and hard case, Matrix MA-40R amplifier 5375 obo. Plight case 520, Halogen driving lights \$20. Call 767-4806.

Car stereo - Illaupunks, AM/PM radio and 2 speakers, factory installed on 1987 Mercedes. 5150. Call 676-7872

IBM 286 close, 20mb Seagaie hardrive, Panasonic KPX1180 printer, Sanzung monitor, all like new! Also includes: MS-005 4.01, Word Perfect 5.1, Grammatik IV, PC Tools 5.5, Louis 123 V2, Quicken, games, morel Must sell. \$795 obo. Call Darren 252-

Kenwood 300 watt amp- w/8 channels-bass, Yahmaha-top of the line CD w/ remore, 2 Sherwood 250 watt spirs, \$400 obo. Call Mike 760-7183.

Get your CFII Fast and cheap. Best training available. Highest quality from experienced instructor. Also available, Private, Commercial, BFR, spin. Call Ken or leave message at 760-9265.

Anyone going went for X-mas? My destination is Albuquerque, New Mexico. Wouldn't mind Dallas Texas. Will sham all expenses. Call Dave at 756-1708, leave

Pirst impressions are important! Don't take chances... have your resume professionally typeset, 517.50/1st page, \$10.00 each additional page, Price includes PREE pickup and delivery in the Daytons smal Call Dave

Wanted: Back larges of KITPLANE megazine. Will buy, but would greatly appreciate donations. Contact Micheal at 756-6552 or Box D216.

I need a rids to the Minnesota/Chicago area sometime before the 14th of Dec. Will share driving and gas. Call 257-5282 ask for

I need a ride to the Minnesota/Chicago area sometime before the 14th of Dec. Will share driving and gas. Call 257-5282 ask for

Airline Ticket. Daytona to Newark Dec. 10th. \$100 obes Call 255-0318 leave message.

CLASSIFIED AD POLICY

Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with 35 word limit.

All other non-commercial advertising is \$10 with a 35 word limit. Each additional word is 10 cents.

Commercial advertising is available through the Avion advertising department, at 226-6051.

Classified advertising is carried out by filling out a classified ad card in the Avion office.

Only one classified ad per card. Name and address of advertiser must be included for the ad to run.

Only paid ads will run for two issues and may be renewed by filling out another classified ad card.

No classified ads will be accepted over the phone. For more information, stop by or call the Avian office

at (904) 226-6049.

GE color TV, good condition, rarely used \$120 obo. Twin size bed w/Sealy Onhopedia mattress. Only used for 8 months, in very good shape \$100 obo. Large 4 drawer filing cabinet w/vertical file system 520 obo. 4 drawer study desk in very good condition, never used \$40 obo. Large drafting style dask, in good condition \$35 obo, Call Jojo 258-7603 or box 2084.

Wetsuits for sale: 3 Ripoul, size medium, good condition. Call 274-2186.

Ysom PT-23R, 2 mean PM transcriver, 140-164 mha Ra-Ta, 2.5w, batt. w/charger, \$175. Call Ricanto 226-7472 or box 6811.

Raleigh Points mountain bike. Complete Shimano 200 GS components. Araya alloy rims. Genat condition. \$275. Call Lot at 226-

Packard Bell notebook computer 386xx/20mhz., 80mb Handdrive, 8mb Ram, internal Faumodem 2400 band, mouse, 640 x 480 VGA 32 greyscalez, Dos 5.0, MS Windows 3.1, Word 2.0, Pagemaker, Perform Pro Cacon IIJ-10s Nosebook Hubble Jet Printer, 360 dpi. \$2,000 complete or will sell separately. Call Neil at 760-9150.

Miscellaneous

Multi-engine flight training or hour building. Fly at your convenience. \$85 hr dual / \$75 dual block time. This is not time-sharing and is the best price in Daytona. Call Miles or Jack at 756-1494.

Multi-engine instructor ratings for only 5775 dual block time. Only 15 hours of PIC needed for this rating and no instrument work is involved. This is not time sharing, you fly all the time. Call Jack or Mike at 756-1494.

NG., Philadelphia. 1st class on U.S. Air, confirmed Dec. 13, 1992 but can be used anythme after, \$100. Call Mike at 255-9186 or TO THE FREASHMAN IN THE DORMS:

lost Tuesday the 17th at 3:30 by the Flight line deak. They were in a black Sporty's bag which also contained Foggles. Please return. Centact Brian at 248-1870.

Trip for two to the Bahsenas. Three days and two nights. Package includes air fare and room, Interested? Consact Raffi at 322-2729. Tickets valid till June 1993.

Animal lovers, if you're staying in the area and would like some company over the holidays, I have a playful kitty that needs a temporary home. He's fun-loving, like people and comes w/all needed supplies. Call 760-

Engineers, technicians, (all disciplines) For directory with company details of up to 200 large and small Aerospace Corporations, includes commercial, military aircraft modification and overhaul centers, mail \$10.95 includes shipping for whole directory printed latsles added \$3,00. Mail to Aerospace Aviation Jobs Research, 6454 Lexington Ave., Suite 17, Hollywood, CA 90038.

+Personals

My loins burn fruitfully for you. I can hardly contain my passions any longer. Admit to yourself that you are just like me and come out of the closet. I love you.

how happy I am to have met you. You mean a lot to me. I like. . . no, I Love. Aidine ticket. One way , Daytone, Charlotte

There is a great Wonderbread thrift store across US-92. Things that make you go HMMM. Looking out for you. Lost headsets, David Clark H10-20's were HARRY 024

> It'll be sice if you can grace us with your presunce in PS 201-05 sometime before DANDR

GUTTER SLUT Thanks for taking me out to get away from GUTTERSLUT II

DRAK JAYRIRD

P.S. Happy 1 yr. anniversary, but hope you break it soon.

Hi Sweetin, thanks for the weekend alone and putting up with the PMS. Irrational or not, I still love you and I hope I'm here with you next semester. Love alway, KRYSTYNB

TO JENNY PUCKET Congratulational You have been unofficially elected by the student body to be the most SPORTS DEPARTMENT

Hope your paw gets better soon. Looking forward to making you feel better. I'll be thinking about you a lot over X-man break. I Can hardly wait till New Years, I want you to know that you are the best thing that has ever happened to me and I love you! I will fight for you, slways.

Lobster, Charlie (the thinf), Mr. Sensitive, Bullseye and Ralf! Beer is our friend! Have a

TO THE COCOA BEACH CREW:

What the hell is your problem?

run; Hall to the king!

overbearing and intense.

GOD SAVE THE DUCKS!

DIRTZ

(Hasoan

LOVE, L.

DER DER

Merry X-mar.

Bens, Jon Famous, Gary Santoro, Steve

Schurig, Chris Kozierecki, Lindy Meckel,

Brian Emmit, Thaoi Nguyen. Breakers #1.

To all of the punks who said she would never.

Happy Amiversary. There is a maybe for us.

As the season changes and the air grows

colder, the shadow becomes inceasingly

For my friend "Sweetness"-forever in my

Think of the long drives, the sussets, the

"walks" in the woods, the blazing fire, the

Think about us. . . (If you think it was easy

Happy 21ts girl! You little tequila vaccum!

Hee, hee. So long, and may the forces of evil

become confused on the way to your home.

Ministry is only for the strong of foot or the

nothing! Maybe we can put you through my

tetally insue. I, the Cyberponk LP., fear

personal "alamming" camp to get you in

I don't know where to start. I can't express

MID-WEST MOSH QUEEN

TOPHER - P.S. Merry X-mss.

getting this in your paper - think some

peace of a deer wandering by with a fawn, the love we share, (and the sheriff's dept.777)

good vacation!

Thanks for helping me straighten out all of the suspicious minds. Let's do something even if its wrong this weekend. (I think the DOT needs somehelp. CINDERIILLA

TO THE BASKETBALL TEAM: CONGRATULATIONS: Tom Kinely, Tom Great job at Homecomming! We are looking forward to a great season of baskmball. Good

FROM THE CHEERLEADERS

BUBBLES Thope you get well soon! We miss your smiling face and cheerful personality at LEFTY AND THE GANG

I hope you haven't forgotten about my proposition. It could be a good thing.

Some guy stopped by and dropped off your underwest. You told us that you just slept ROB AND THE DIETZ

TO THE BIO DOG You leave me notes and I leave you "personals". Speaking of getting personal did you ever locate your dicep? (I know where it's not) Let's di that again - some time real soon, but this time - let's do it without the bear" looking down at us! LOVII ALWAYS, POOH

Sorry about fropping, but let's do something ROOM.

It's not the signs, it's our you got a Chevy, but if your breaks are in that bad of shape ignore the IO. CINDERBILLA.

So are you tired of me yet? Tired of my sociopathic, symphomaniae, socidal behavior yer? Thought sot Still in love with you

BUNNYHEAD AND ROSEBUD PETROs tonight (Nova and Orange) 'nutf'

Oh Padge! Oh nate! Long live the chocolate

TO PETER MAN

TALBOT

mousse and ice - t theiver.

Pluyies is merely a state of mind. A really really messed up state of mind.

TO: THE BEAUTIFUL BLONDS CHEERLRADER (AMANDA CAIN) Smile! the camera is watching.

A SHUTTERBUG SHANNON

Look into my blue eyes, and tell me that you want me, and I will show you a night of pure ecstacy., bringing you to new heights of sexual pleasure - look, tell, and I am yours.

GREEKS & CLUBS

RAISE A COOL *1000 IN JUST ONE WEEK! PLUS \$1000 FOR THE MEMBER WHO CALLS! No obligation. No cost. You also get a FREE HEADPHONE RADIO just for calling 1-800-932-0528, Ext. 65

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FALCON Computer Systems has a full line of the latest IIIM compatible computers. Whether you field 1386, 486, notebook or desktop model, each is custom built to fit your needs AND your budget. Don't hen link of buying a 486 system until you've seen the new FALCON 486-Local Bus, with video speeds 10 mes ster than standard 486 systems! Other systems and configurations available please call for pricing With aproved Credit, 13%APR, Some Restrictions Apply

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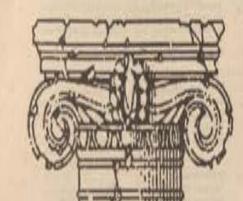
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FINALS ARE CREEPING UP ON YOU QUICKLY!

BRIGHTEN A MATH TUTOR'S DAY! (NOT)

If free, free, FREE help with your math sounds good, come to the Math Tutoring Lab in Mod 1 (Next to the Engineering building)!

Tutors are on duty 9:30 - 5:30 daily



Thursday FAVE \$6 Cover Free Drinks



No Cover 18 and Up \$1 Beers \$1 Drinks

Coliseum

176 N. Beach Street Downtown - Daytona Beach 257-9982



visual STIIVIULI

Friday & Saturday Evenings 2 FOR 1 DRINKS 9pm till 3am 3D LASER LIGHT SHOW

PROGRESSIVE

Sunday Evenings \$1 Beers, Drinks No Cover, 18 and Over DOORS OPEN AT 9 PM