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SPACE TECHNOLOGY

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TRW satellites are NASA's switchboard in space

By Joshua Mussaf
Space Technology Reporter

NASA's latest Tracking and Data Relay Satellite (TDRS) was released last Wednesday, approximately six hours after the launch of the Space Shuttle *Endeavour*.

The TDRS system provides NASA with more productive use of space systems by permitting nearly continuous communications between control centers on the ground and satellites, including space shuttles, in low-earth orbits.

The improved communications translate into more scientific and mission data reaching the ground more quickly and increased shuttle

astronaut/ground control communications for dealing with real-time experiments.

NASA has compared the TDRS system, with its TRW-built satellites, to a superhighway for voice, video and data streams.

Prior to the launch of the first TDRS in 1983, satellites and manned spacecraft in low-earth orbit could "talk" to Earth only when they were passing over one of the several ground stations - typically, about 15 percent of each orbit. When they were outside range of a ground station, there was silence.

During the Mercury, Apollo and Skylab programs, combined communication time with all Earth stations averaged less than 20 minutes during each 90-minute orbit.

In contrast, with the TDRS system, space shuttle crews enjoy communications to Earth approximately 85 percent of the time during orbit.

The demand for TDRS communications services continues to grow. In 1989, the system averaged about 1,000 hours of support per month to users.

Today that number has grown to more than 3,500 hours per month. TDRS customers include the Compton Gamma Ray Observatory (GRO), Upper Atmosphere Research Satellite, Hubble Space Telescope (HST), Cosmic Background Explorer, Extreme Ultraviolet Explorer, TOPEX-Poseidon, and both Landsat space-

craft. GRO and the HST alone are sending more than 4.5 billion bits of data per day via TDRS.

Status of TDRS satellites

The first of the Tracking and Data Relay Satellites (TDRS-1) was launched from the Kennedy Space Center aboard the Space Shuttle *Challenger*, in April 1983. It is currently on station over the Pacific Ocean.

The second TDRS (TDRS-B, which would have been TDRS-2 on orbit) was lost on the *Challenger* in January 1986. A third was launched as the first shuttle payload when *Discovery* marked the space program's return to flight in September 1988. TDRS-3 is now located over Brazil. TDRS-4 was launched in March 1989 and is located over the Atlantic Ocean.

After TDRS-1, 3, and 4 were on orbit, NASA decreed the system fully operational in June 1989. TDRS-5 was launched in August 1991 and is located at 174 degrees west longitude.

TDRS-6 will be placed into an orbital position of 152 degrees inclination for a series of tests and will await further commands to be put into the TDRS system.

TDRS-6 on orbit, weighs nearly 2.5 tons but can be moved by firing pairs of one-pound thrusters, each no bigger than a finger.

TDRS-6 can handle 300 million

bits of information per second per channel - the equivalent of all the data in a 20-volume encyclopedia - in less than one second. The spacecraft is valued at more than \$200 million.

TDRS-7 is at the TRW facilities in California, being prepared for a launch in the summer of 1995.

TDRS-1 has exceeded its expected mission life after surviving the rough ride it received on a booster en route to geosynchronous orbit. Approaching its tenth anniversary, TDRS-1 is now being considered for a new mission because of the failure of some of the major systems onboard for normal operations.

Plans now call for TDRS-1 to provide extended real-time science coverage for the Compton Gamma Ray Observatory due in part to the failure of one of the onboard tape recorders.

The TDRS system operates on an entirely different principal than the original ground station system. From a geosynchronous equatorial orbit 22,250 miles above the Earth, these satellites look down on NASA's fleet of Earth-orbiting spacecraft and shuttles, tracking them worldwide and relaying two-way communications between them and mission control centers through a single ground station at White Sands, New Mexico. All transmissions from Earth to the TDRS satellites or from them to the Earth pass through this station.



A Tracking and Data Relay Satellite sits atop a Boeing-built Inertial Upper Stage rocket, which will take it to a geosynchronous orbit 22,500 miles high. There it will relay data from other satellites to Earth.

TDRS Facts

TDRS - Tracking and Data Relay Satellite.

Orbital status - Initial plan was for seven satellites, but TDRS-B was destroyed in *Challenger* accident. Currently five satellites in orbit.

Mission - Act as data relay stations for shuttles and satellites, such as Hubble Space Telescope and Gamma Ray Observatory.

Asteroid has close call with Earth

By Brian Gamage
Space Technology Editor

Using a large radar antenna at NASA's Deep Space Network, astronomers at the Jet Propulsion Laboratory have obtained the sharpest images yet of an Earth-approaching asteroid, 4179 Toutatis, as it passed extremely close to Earth last month.

"This is our first clear look at one of the many thousands of asteroids whose orbits can intersect Earth's orbit," said Dr. Steven Ostro, a senior research scientist at JPL and the leader of the radar team.

The radar images reveal Toutatis to be a "contact binary" asteroid, consisting of two irregularly shaped, cratered objects about 4 and 2.5 kilometers in average diameter and rotating with a period between 10 and 11 days.

Toutatis passed 3.6 million kilometers from Earth on Dec. 8, 1992 - less than 10 times farther away than the moon.

Discovered by French astronomers in 1989, almost nothing was known about Toutatis before the radar images were taken. The asteroid has now been shown to have a cratered surface which indicates a complex history of collisions.

"The binary nature of Toutatis is the most important single result of this radar experiment," Ostro said.

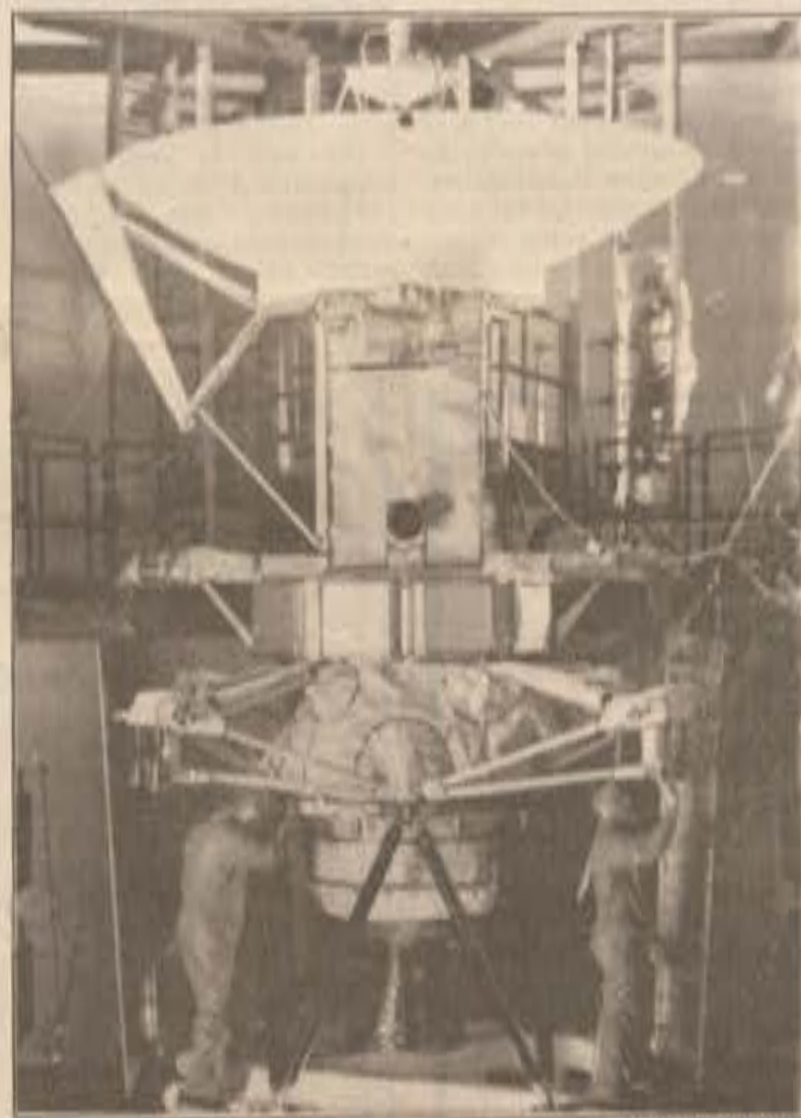
Previous radar images taken by Ostro and his colleagues of another Earth-approaching asteroid, 4769 Castalia, were too crude to reveal surface details but did show the object to be split into two 1-kilometer lobes. Radar echoes bounced off of other asteroids have also contained hints of contact-binary configurations.

"Three years ago we were startled by the initial evidence for contact-binary asteroids," Ostro said. "Now it seems that double bodies might be very common in the Earth-approaching asteroid population. If so, then their abundance has important implications for theories of the origin and evolution of asteroids and meteorite source bodies."

"For example, sub-catastrophic collisions might play an important role in delivering asteroidal bodies into the inner solar system from the main asteroid belt between Mars and Jupiter," he said.

The two components of Toutatis probably joined in a relatively gentle collision, but their origins and the times and circumstances of events leading up to the asteroid's current configuration are unknown.

see Asteroid, page B6



Martin Marietta Astronautics workers inspect the Magellan spacecraft, which was launched aboard the Space Shuttle *Atlantis* in May, 1989, on a mission to map the surface of Venus.

Probes continue to provide NASA with new discoveries

By Arle Moller
Space Technology Reporter

Thirty years ago, the first successful interplanetary probe reached Venus after a 108-day journey from Earth. Named Mariner 2, it was a 450-pound machine carrying six scientific instruments, a two-way radio and a solar power system. Its mission was to observe the planet Venus.

The Mariner planetary spacecraft series began in 1960 as a group of mission studies at NASA's Jet Propulsion Laboratory (JPL).

The craft transmitted data about interplanetary dust, magnetism, cosmic rays and solar plasma. Being the first successful interplanetary craft does not mean it was immune to systems problems. On the way, Mariner lost its attitude orientation, one of its solar panels failed, many of the probe's temperature readings rose higher than expected, and there was an intermittent bug in the sequencer array.

The problems corrected themselves for the most part. The craft recovered orientation on its own. As it neared Venus, one panel provided enough power, the temperatures

never reach critical levels, and the sequencer array stayed online for the majority of the time.

Two years later, in 1964, a second-generation Mariner set forth to study Mars. This machine was equipped with a TV camera and tape recorder which captured the first close-up pictures of the surface of Mars.

In 1976, two NASA scientific stations, named Viking, landed on Mars, conducting atmospheric, biological, chemical and meteorological studies.

A year later two spacecraft were launched on what became the grand tour of the outer planets. Voyager 1 used Jupiter's gravitational field to speed it on to Saturn, sending back thousands of images, providing scientists with the means to make new discoveries about these heavenly bodies.

Voyager 2 also flew past Jupiter and Saturn, but used additional gravity assists to sling it on toward Uranus and Neptune.

Magellan set out for Venus in 1989 to map the surface from orbit

see Probes, page B6

Endeavour uses x-rays to study "hottest" parts of the universe

By Brian Gamage
Space Technology Editor

During the recent space shuttle mission, designated STS-54, the Space Shuttle *Endeavour* carried with it in the cargo bay the Diffuse X-ray Spectrometer (DXS).

The DXS was built to address the fundamental question of present-day astrophysics - what is the origin and nature of the interstellar medium, the matter that fills the space between stars?

The instrument studied the hottest components of the interstellar medium, gases at temperatures of approximately 1 million degrees Kelvin, by detecting the x-rays emitted there. By measuring the gas temperature and composition, the DXS will provide scientists with important clues

to the origin, evolution and physical state of this part of the Milky Way galaxy.

The hot interstellar medium is one phase in the life cycle of the material in this galaxy. A better understanding of how this matter evolves is one of the steps toward understanding the nature and evolution of galaxies, which might, in turn, give us clues to the Earth's evolution.

The DXS, developed by the University of Wisconsin, Madison, consists of two identical instruments, one mounted to each side of the shuttle cargo bay.

A large percentage of x-rays from space do not originate from specific objects like stars or galaxies, but from some source that appears to be distributed over the entire sky. The distribution consists of low-energy or "soft" x-rays that are not yet well

understood. Because low-energy x-rays cannot travel more than a few hundred light years in space before being absorbed, most of the soft x-ray background must have originated in our galaxy from the vicinity of our solar system.

Previous experiments were not capable of measuring the spectrum of the diffuse soft x-ray background. With its special capability, the DXS will make this type of measurement possible for the first time.

The DXS instruments collected x-ray data during approximately 64 orbital nights over 4 of the mission's flight days. The orbital night is when the shuttle passes over the part of the earth that is in darkness. This shields the detector from any sources other than background and allows for the most precise measurements.

The DXS investigation was proposed and selected in response to a 1978 announcement of opportunity to conduct scientific investigations aboard the space shuttle.

The data is being processed by Goddard Space Flight Center.

The edges of science...

Tachyons may someday produce anti-gravity

By Arle Moller
Space Technology Reporter

Editor's note: "The edges of science..." is a new column that will attempt to delve into the mysterious world of experimental and theoretical particle physics, the stuff Star Trek writers have fun playing with. Every other week we will feature a different particle, attempt to explain its nature, and toy with some of its peculiar and bizarre circumstances. This week Space Technology Reporter Arle Moller has his hands full with the theoretical particles called tachyons.

Since junior high we have been told that the speed of light is the ultimate speed limit of the universe. But is it?

The popular argument against faster than light speeds comes from Einstein's Special Theory of Relativity. But does it necessarily restrict all particles to sublight speeds? Not really.

There are three possibilities that will satisfy special relativity. They are a) particles with real mass and velocities always less than light speed, which are called tardyons b) particles with zero mass and a velocity restricted to the speed of light which are called photons and c) particles with imaginary mass that must always travel faster than the speed of light. These elusive parti-

cles are called tachyons.

Before continuing, a disclaimer must be stated. Tachyons are purely theoretical as of this writing. No one has found concrete evidence for tachyons yet. This does not necessarily mean they do not exist.

The theoretical possibility of anti-particles was around well before a positron (the positron is the electron's anti-particle) was actually found.

So if tachyons did exist, what would be some of their properties and how would they behave? More Push, Less Speed

One very strange property would be that the more energy you pumped into a tachyon, the slower it would travel. Does this make much sense? Well, maybe an analogy will help at this point. Let's use a car that happens to be traveling at, say, 300 miles per hour by some miraculous circumstance.

The car is traveling well past its engine's maximum speed. What would happen if all of a sudden you were to slam the car into fifth gear and the pedal to the metal? The car would slow down even though energy is being expended by the engine.

Since electromagnetic energy travels at the speed of light it would be analogous to the car in as much as the energy would tend to slow a tachyon to the speed of

see Tachyon, page B6

...what is the origin and nature of the...matter that fills the space between stars?

McDonnell Douglas F/A-18 celebrates 10th anniversary

McDonnell Douglas Press Release

ST. LOUIS, — The McDonnell Douglas F/A-18 Hornet celebrated its 10th anniversary of operational military service with the U.S. Navy and Marine Corps.

The Marine Corps started its first operational F/A-18 squadron, the Black Knights of VMFA-314 based at Marine Corps Air Station El Toro, Calif., in January 1983.

The Navy soon followed with its first operational Hornet squadron, the Stingers of VFA-113, based at

Naval Air Station Lemoore, Calif., in October the same year.

The F/A-18 made its first flight nearly 15 years ago in November 1978.

Inaugural ceremonies for the first of the Black Knights' 12 Hornets were conducted on Jan. 7, 1983. Officials at MCAS El Toro will mark the 10th anniversary of that event as part of a Marine West celebration on Jan. 14, 1993.

One of the squadron's original 12 Hornets will be on static display.

Speakers at the inaugural ceremony 10 years ago described the F/A-

18, which replaced the A-7 and the F-4 Phantom II, as a "truly remarkable aircraft" that "embodies the leading edge of technology that American industry has produced."

The Hornet's advanced technology was described as "one of the important advantages our aviators have in time of war."

Those words proved to be prophetic.

The Black Knights were among four Navy and Marine Corps Hornet squadrons deployed on board the aircraft carrier *USS Coral Sea* that played a vital role in U.S. action

against Libya in 1986.

These were the first combat operations for the multimission, twin-engine F/A-18s, which performed combat air patrol missions and knocked out a Libyan surface-to-air missile site at Sirte.

During the Persian Gulf Crisis in 1990-91, more than 200 U.S. and Canadian Hornets flew round-the-clock air-to-air and air-to-ground missions in support of the allied coalition's drive to liberate Kuwait from occupation by Iraq.

F/A-18s participated in virtually every conceivable mission area and shot down two Iraqi fighters.

U.S. Navy and Marine Corps Hornets flew more than 11,000 sorties and recorded availability rates of 99 percent.

On Jan. 17, 1991, two F/A-18s from VFA-81 (the Sunliners) deployed on board the aircraft carrier *USS Saratoga* shot down two Iraqi MiG-21s while fully loaded for an attack mission.

They successfully hit their ground targets and returned home safely.

This encounter, considered a first in modern combat history, affirmed the multimission capability of the Hornet.

Today, the Marine Corps operates 17 squadrons from bases at El Toro, Marine Corps Air Station Beaufort, S.C., and Marine Corps Air Station Kaneohe Bay, Hawaii.

The Navy operates 33 squadrons at Lemoore, Naval Air Station Cecil Field, Fla., Naval Air Station Point Mugu, Calif., and Naval Air Weapons Center China Lake,

California.

The Hornet is in the Far East at Marine Corps Air Station Iwakuni, Japan.

Squadrons are forward deployed there on six-month rotation, typically with two or three squadrons present at all times.

The *USS Independence*, deployed to Japan, is home away from home for two squadrons.

The F/A-18 is also deployed on board the *USS Constellation*, *USS Kitty Hawk*, *USS America*, *USS Eisenhower*, *USS Roosevelt*, *USS Nimitz*, *USS Saratoga*, *USS Kennedy*, *USS Washington*, *USS Forrestal*, *USS Lincoln*, *USS Enterprise* and *USS Vinson*.

As of December 1, 1992, a total of 836 F/A-18s had been delivered to the U.S. Navy and Marine Corps.

A total of 1,143 F/A-18s had been delivered worldwide, and the Hornets had logged 1.86 million flight hours.

Other countries that fly the Hornet are Canada, Australia, Spain and Kuwait.

Finland and Switzerland also have selected the Hornet as their premier fighter for self-defense.

Since its introduction, the Hornet has demonstrated a capacity to be continually improved.

The Navy began taking fleet deliveries of the updated model F/A-18C/D in 1987. In November 1989, McDonnell Douglas began delivering F/A-18s with advanced night attack capability.

The Marine Corps has been taking delivery of reconnaissance

capable F/A-18Ds since February 1992.

Navy and Marine Corps Hornets are now being delivered with General Electric F404-GE-402 Enhanced Performance Engines, which produce from 10 to 20 percent more thrust than previous F404 engines.

Production is under way on an upgraded Hornet radar, designated the APG-73, which is scheduled to be installed in Hornets delivered to the fleet beginning in June 1994. And, development is under way on the next-generation Hornet, the F/A-18E/F, scheduled to enter service with the Navy in 1998.

Designed to be both reliable and easily maintainable, the F/A-18 is demonstrating three times better reliability at half the maintenance of other Navy and Marine Corps tactical aircraft. Moreover, the Hornet will remain a key element of naval aviation well into the 21st century, as the Navy plans to fit its carrier decks with a complement of F/A-18s and AX aircraft.

Employees at more than 2,000 U.S. companies in 44 states help produce this top-of-the-line combat aircraft. Prime contractor McDonnell Douglas performs final assembly of the Hornet at its St. Louis plant, where nearly 6,700 people are associated with the program. Principal subcontractors are Northrop, which builds the center and aft fuselage, engine manufacturer General Electric and Hughes Aircraft, which supplies the radar.



Making its first flight 15 years ago, the F/A-18 now celebrates 10 years of operational service with the United States Navy and the Marine Corps.

Airlines concerned about proposed alcohol testing program

ATA Press Release

Air Transport Association (ATA) President Jim Landry expressed concerns about the U.S. Department of Transportation's proposal for alcohol testing of transportation workers announced today by Secretary of Transportation Andrew Card.

"My initial reaction is that DOT has proposed a rule that does not reflect the operational demands of

the airline industry," said Landry, in voicing concerns held by the 19 member U.S. airlines of ATA. "The prospect of testing pilots during the turnaround time between flights is excessive. Our pilots do not drink in the cockpit, and the implication of the proposal will only serve to frighten passengers. Practically speaking, trying to test crew members during a 20 minute turnaround will be impossible."

While reserving judgment on the specifics of the proposed rule,

Landry reiterated the airline industry's position that various transportation modes must be viewed separately.

"As we told Congress when the authorizing legislation was under consideration, no commercial aviation accident has ever been caused by alcohol abuse by an airline employee. Unfortunately, other modes cannot say the same thing. Nevertheless, airline employees are being forced to wear a scarlet letter because of the

problems of other transportation modes."

Secretary Card announced the proposed rule at a press conference at the Department of Transportation.

The Notice of Proposed Rulemaking is initiating a 120-day public comment period.

The rule is required by congressional action taken in 1991. Landry also expressed disappointment at the department's announcement of a lengthy procedure to consider lowering the

sampling rate for random drug testing of airline workers.

"We petitioned the department almost 18 months ago to lower the sampling rate from 50 to 10 percent, and provided ample data to support our request. Subsequent DOT reports verified the industry's exemplary record," said Landry.

"Yet their response is to publish an Advanced Notice of Proposed Rulemaking saying 'We'll have to gather some more facts and think about them before we open a final

rulemaking proceeding.' I can only hope this lengthy process will result in lowering the testing rate to a more reasonable level, in light of the outstanding low rate of drug use among flight crews."

"Department officials have stated that their objective in developing final rules is to deter drug and alcohol use, while not burdening industry," said Landry. "ATA intends to hold them to their promise."



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Pompano Air Center offers introductory aerobatic program

Pompano Air Center Press Release

Realizing that many people have watched airshow performers and wondered what it feels like to summersault in the sky, Pompano Air Center (PAC) has put together a package to introduce people to the cockpit perspective of aerobatics.

For \$500, anyone with a strong stomach and a desire to experience the unusual can sign up for the Flight of a Lifetime.

It's several flights, actually, that lead up to a full Sportsman sequence of positive aerobatic maneuvers.

The flight begins with a ground school briefing on the types of maneuvers to be flown.

The first flight lasts about 20 minutes and introduces the rider to steep turns, inverted flight, Immelmans, loops and rolls.

Debriefing follows and the second trip is planned which advances to four-point rolls, eight-point rolls, Cuban eights, hammerhead stalls and spins.

During the third flight, the instructor will begin to put the maneuvers together into a sequence

after introducing rolling 360-degree turns, tailslides and snap rolls. If desired, the rider will have the opportunity to take the controls and fly loops and rolls.

Those who complete the program will be given a certificate and a one-year membership in the International Aerobatic Club.

The aircraft to be used for these flights will be the Pitts S-2B biplane.

Pompano Air Center runs the leading aerobatic training school in the United States and is the worldwide distributor for Russian Sukhoi aerobatic aircraft.

"We put this program together for pilots and non-pilots alike," said PAC Vice President Brian Becker.

"Over the past several years, we've had quite a few requests for this kind of introduction to aerobatic flying and we'll be able to tailor the flying to the passenger's endurance. Most people will find it pretty thrilling."

For further information on the Flight of a Lifetime program, contact Pompano Air Center, (305) 943-6050; or write 1401 N.E. 10th Street, Pompano Beach, FL 33060.



photo courtesy of Pompano Air Center

For anyone who has ever wondered what it was like to fly in an airshow performance, here's your chance. The program includes a preflight briefing, several flights in a Pitts S-2B and a one year membership in the International Aerobatic Club.

EAA Young Eagles program starting sponsorship drive

EAA Press Release

The EAA Aviation Foundation, whose "Young Eagles Program" is designed to open the world of aviation to 1 million young people, is inviting the aviation industry to join forces to carry the program forward following its successful launch at the 1992 Experimental Aircraft Association (EAA) Fly-In Convention.

The Foundation will invite financial support from past Convention exhibitors and from aerospace corporations who have previously contributed to the Foundation. Contributors will become members of the "Eagle Flight Society" and be recognized as supporters of aviation's future.

Sporty's Pilot Shop, a strong supporter of EAA Aviation Foundation educational programs in the past, has already joined the Foundation in promoting the effort.

"The Young Eagles Program is one of our country's boldest youth aviation initiatives," Foundation President Tom Poberezny said.

"We are pleased to have given a great start to the program with support from aviation interests such as Sporty's, Aerospaciale-General Aviation and Associated Aviation Underwriters. As we enter the program's first full year in 1993, we invite other aviation entities to join us."

Up to \$400,000 is needed to fund such programs as Convention youth activities, developing a Young Eagles field representative network, printing and postage for communications to young people as well as pilots, and special youth outreach services.

With a goal of 100,000 young people participating in the Young Eagles Program in 1993, the cost breaks down to less than four dollars per participant.

Partial support has also been received from Convention exhibitors, local sources and through an endowment from SC Johnson Wax of Racine, Wis.

"Nearly all of general aviation's vital signs have declined in the past

decade," Poberezny explained. "There have been drops in the number of piston-powered aircraft, hours flown, public-use airports, certificated pilots and student pilots starts. If general aviation is to survive, we must reverse the trends by sparking a new generation's interest in the joy of flight."

The program's goal is to provide 1 million young people with a demonstration airplane ride by the year 2003 — the 100th anniversary of powered flight and the 50th anniversary of EAA.

It is hoped this flight experience and associated educational opportunities provided by a volunteer pilot will motivate young people to discover more about the world of aviation.

Flight rallies around the country provided more than 5,000 airplane rides and other educational activities in the program's first 100 days.

EAA member pilots volunteer their time and airplanes to provide the demonstration rides. They also sign an "Eagle Flight" certificate for each young person they fly.

The names of the young people and the pilots are then entered into the "World's Largest Logbook," which is on permanent display at the EAA Air Adventure Museum in Oshkosh, Wis.

"The EAA Aviation Foundation is one of the best-prepared organizations to work toward this goal," Poberezny added. "Since 1978, EAA memberships have doubled, Convention attendance tripled and museum attendance quadrupled. With that growth comes responsibility, and the Foundation stands ready to positively influence the second century of flight."

Membership in the "Eagle Flight Society" may be obtained in one of four levels. Gold Eagle Flight sponsorship is a special designation for those who contribute \$10,000 or more annually.

Silver Eagle Flight sponsorship is awarded for investments of \$5,000, \$9,999 and Bronze sponsorships for contributions of \$1,000-\$4,999.

see EAA, page B6

Clinton urged by GAMA to restore ITC

GAMA Press Release

The manufacturers of U.S. general aviation aircraft have been urging President-Elect Bill Clinton and the Congress to restore the vital Investment Tax Credit (ITC).

In a letter to President-Elect Clinton, eight U.S. business aircraft manufacturers said a restoration of the ITC would be one of the key elements to restoring the general aviation industry's worldwide leadership position.

This year, the industry will have its worst year since World War II.

"Historically, when the investment tax credit has been reinstated, domestic industry sales have increased by over 30 percent the first year. In the second year, industry sales increased by nearly 50 percent," the letter explained.

If the Clinton Administration proposal is similar to previous investment tax credits, the manufacturers expect the results to be the same.

"The ITC is a proven and effective tool for stimulating investment and creating jobs. A ten percent ITC could create up to ten thousand direct jobs at the airframe companies. Over three times the

number would be generated for suppliers and related industries," the manufacturers urged.

Applauding President-Elect Clinton's support, the manufacturers stressed their willingness to cooperate and urged immediate action in restoring the ITC.

GAMA President Edward W. Stimpson said, "A simple, easy to apply incentive enacted as quickly as possible would greatly enhance the market."

He urged that Administration and Congressional action be taken in a timely manner so business decisions would not be deferred.

The letter to the President-Elect

was signed by Robert E. Crowley, Chairman & CEO, American General Aircraft Corporation; Jack Braly, President, Beech Aircraft Corporation; Russell W. Meyer, Jr., Chairman & CEO, Cessna Aircraft Company; Carl A. Albert, Chairman, CEO & President, Fairchild Aircraft Incorporated; William C. Lowe, President & CEO, Gulfstream Aerospace Corporation; Brian E. Barents, President & CEO, Learjet Inc.; Jacques Esculier, CEO, Mooney Aircraft Corporation; and Charles M. Suma, President & CEO, Piper Aircraft Corporation.

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Al Pacino finally sees the light in his new film *Scent of a Woman*

By John Luke
Opinion Editor

Rating: ★★★

Al Pacino is finally fantastic in a movie with no nudity: it's shocking! Pacino's movies are usually laced with colorful metaphors and exciting body parts. In *"Scent of a Woman,"* Pacino takes a witty role without all the nudity which makes parents and those with "family values" cringe.

This fly-by-the-seat-of-the-pants drama/comedy co-starring Chris O'Donnell will probably collect many awards for its frank language and feeling, which makes you happy to watch for the film's full three hour length. Pacino and O'Donnell combine to form realistic characters.

If you thought all Al Pacino was good for was getting naked bodies put in front of him and playing the "Godfather" flicks, then get ready for a surprise. This film introduces you to two people who are both at crossroads in their lives. And, if you don't mind a little sexual innuendo then this film is for you.

O'Donnell opens the film as a senior in high school who witnesses three classmates performing an illegal act on campus with a friend also witnessing. The head master of the school threatens both boys with expulsion if they don't squeal on Monday morning in front of the whole school. Then, the Thanksgiving weekend comes.

O'Donnell's character begins the weekend confused and depressed, unsure whether he should tell or not. Matters are made worse when his friend who witnessed the event with him is suddenly flown home to his parents' house where he is isolated and unable to speak to anyone from school. He does not know what to expect come Monday.

Pacino's character is no less of a basket case at the start of the weekend. Depressed and lonely, lacking sight due to an accident during his military career (later we find to be self-inflicted), he is quite a handful for anyone.

O'Donnell is hired to look after him for the Thanksgiving weekend. As soon as Pacino's family leaves for their vacation, Pacino packs and

takes O'Donnell on an adventure in New York.

Both main characters have their problems in this film. Both are in a crossroads: Pacino's character is tired and experienced, O'Donnell is young and feeling the weight of this upcoming decision - neither solution (to squeal or not to squeal) is acceptable. What ensues is a great series of interaction which leads to both characters changing and growing in the film.

"Scent of a Woman" is a good film. It might have been made better with smoother transitions between scenes and plot sequences, but if you want more than your average ho-hum movie, and you want to see Al Pacino in a rare tango, then go to it.

This film is definitely worthwhile. If you are low on funds then at least see it at the dollar movies or on video.

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

EMF's new release *Stigma* follows *Schubert Dip* in being danceable and fun to play with

By Shawn McBride
Singer/Writer

After just over a year's wait, EMF's second album, *Stigma*, has been released.

This album comes as a follow-up to their extremely popular debut, *Schubert Dip*. That album contained some popular dance tracks, such as "Unbelievable."

EMF's second album, *Stigma*, has the potential to fall into the same shoes as their debut album.

That is because *Stigma* packs the distinctive mix of keyboards and guitar we were introduced to on *Schubert Dip*.

The album is also packed with the energetic vocals associated with EMF. I'm sure many of the tracks on

the album are going to be a hit on the dance floor.

The track "The Light That Burns Twice as Bright..." has an intriguing introduction, followed by some excellent guitar playing. This song also contains background vocals by P. P. Arnold.

The introduction into the song "Arizona" reminded me a lot of the introductions to some older songs by the Cult. In general, the song sounds a lot like something you would find on a Jesus Jones album. Don't get me wrong, I like both the Cult and Jesus Jones.

The song "Blue Highs," on the other hand, reminded me of "Unbelievable" off of *Schubert Dip*.

In my opinion, this progressive

song will be a big hit on the dance floor, but so would most songs on this album.

The track "Inside" has a very strong keyboard opening, with strong, dominating keyboards throughout the song. That, mixed with the energetic vocals on "Inside," convinced me this song has potential to be very big on the charts.

The band consists of James Atkin as vocals, Ian Dench on keyboards and guitar, Zac Foley on bass, Mark Deeloed on drums, and Derry Brownson providing the samples.

If you enjoyed EMF's first album, I'm sure you will enjoy this new release - *Stigma*. I'm sure you will also join me in awaiting a tour and their next release.

"Stupid People Shouldn't Breed," the album and the tour from Skatenigs

By Douglas O. Fischer
Division Writer

On January 10, Megaforce recording artists Skatenigs performed at Visage in Orlando.

Megaforce Entertainment is proud to add this alternative group to its list of artists which include Ministry, Skatenigs is Phildo on vocals, Billy Jackson on guitar, Chris Chambers on guitar, Lance Von Moulder on bass, Chip Fisher on drums, and Mega Bite on keyboards. Originally from Austin, Texas they got their name from their skateboarding days where the locals called the skateboarders "skatenigs".

Before the show, I was invited to lunch with two of the band members, which was more of a conversation than an interview.

They are currently at the start of their national tour promoting their album *Stupid People Shouldn't Breed*.

They say that this title is actually a shortened version of a bumper sticker which reads, "Stupid people shouldn't breed because their children grow up to be skatenigs."

The tour covers some towns in Canada and starts off with 25 shows in as many days. They usually travel by van on tour.

Of all the different cities they play, it is the younger crowd that starts moshing first. The youths start slamming from the start of the show, whereas the older crowd usually waits a few songs before they start.

I got a chance to listen to this hardcore alternative album and found it difficult to decide between. It is a tie between "Poundsauce" and "Horny For Evil." The rest of the album is good too, but I find it difficult to categorize. Rap is one thing that works well for the Skatenigs, but it is alternative rap.

As far as the show went, the crowd and I loved it. After waiting

for two hours for the doors to open, the crowd piled inside and waited for the band to start.

By the time the Skatenigs got on stage, this venue of underground entertainment was almost at capacity.

They played most of the songs from their debut, but what the album doesn't have is the live theatrics that a stage show has.

During Horny For Evil, the crowd was squirmed and nobody seemed to mind. I was laughing so hard I spilled my drink.

As far as moshing goes, it is a pretty cool experience, especially when excellent live slamming music is being played. I wasn't on the ground long before I was picked up by fellow slammers. Violence with heart, go figure.

If you like Ministry, you'll love *Stupid People Shouldn't Breed* by the Skatenigs. It's definitely an album moshers will enjoy.

Top 10 Prime-time TV Shows On Campus

1. "Cheers"
2. "Home Improvement"
3. "Ren & Stimpy"
4. "The Simpsons"
5. "Seinfeld"
6. "Herman's Head"
7. "90210"
8. "Married... With Children"
9. "Liquid Television"
10. "Northern Exposure"

Note: Out of 128 people polled, 19 people said they did not watch TV at all.
Source: Avion poll

Campus Paperback Bestsellers

1. *A Time to Kill*, by John Grisham. (Island/Dell, \$5.99.) Racial tension run high during a trial.
2. *The Firm*, by John Grisham. (Island/Dell, \$5.99.) Young lawyer confronts the hidden workings of his firm.
3. *Life's Little Instruction Book*, by H. Jackson Brown Jr. (Rutledge Hill, \$5.95.) Advice for attaining a full life.
4. *Needful Things*, by Stephen King. (Signet, \$6.99.) King delivers a twisted "Our Town" with a vengeance.
5. *Live and Learn and Pass It On*, by H. Jackson Brown Jr. (Rutledge Hill, \$5.95.) 500 tips to achieve a full life.
6. *Seven Habits of Highly Effective People*, by Steven R. Covey. (Fireside, \$9.95.) Guide to personal fulfillment.
7. *Fried Green Tomatoes at the Whistle Stop Cafe*, by Fannie Flagg. (McGraw-Hill, \$6.95.) A woman's remembrance of life in the deep South.
8. *The Sum of All Fears*, by Tom Clancy. (Bantam, \$6.99.) Middle Eastern terrorists bring about the threat of nuclear war.
9. *Night Over Water*, by Ken Follet. (Signet, \$6.99.) Dramatic escape from Britain on the outbreak of WW II.
10. *You Just Don't Understand*, by Deborah Tannen. (Ballantine, \$10.00.) How men and women can understand each other better.

"Deep Space Nine" promises to be deeper in content than "Star Trek: The Next Generation"

By John Luke
Opinion Editor

Paramount has launched a brave new endeavor based upon the cult hit series "Star Trek" created by Gene Roddenberry. This new show is called "Deep Space Nine" and is set in the same time period as "Star Trek: The Next Generation."

Instead of being set on a cozy starship which takes fabulous trips throughout the galaxy, the new show is on a science station, *Deep Space Nine*, and now the aliens come to us through wormholes, commerce, diplomacy and in other ways. Oh, and Captain Jean-Luc Picard's nemesis Q should be in this one, too.

The main character, Station Commander Benjamin Sisko (played by Avery Brooks) is brought into the story at Wolf 359 where Picard was forced to help the Borg attack the Federation.

Sisko is deeply wounded during this attack when he barely saves his son and loses his wife in the battle.

Sisko starts the first episode still angry, three years after the events at Wolf 359. But the pain inside of him makes him angry and unhappy. But, by the end of the first episode, "Emissary," Sisko deals with his pain and feels more hopeful about his growing new assignment.

Patrick Stewart as Captain Jean-Luc Picard bridges the gap between "Star Trek: The Next Generation" and "Deep Space Nine."

The *Enterprise* visits *Deep Space Nine* twice in the pilot episode. And with Cardassian threats plus terrorists showing up once in a while, Federation protection and assistance will be necessary for the foreseeable future.

Much of the same writing style from "Star Trek: The Next Generation" is used, but producers like Rick Berman wanted to move away from the total camaraderie of "Star Trek: The Next Generation." He believes good drama involves more conflict among the characters in the show.

Indeed, there is more conflict amongst the station officers in "Deep Space Nine." The first officer, Major Kira Nerys, played by Nana Visitor, is a Bajoran officer, and not from Starfleet. She is opposed to Starfleet's involvement at *Deep Space Nine*.

Many other people at the station are not Starfleet personnel either. Cardassians frequently recreate at the station and there is a Ferengi bartender. This mix tends to invoke conflict.

We shall see if *Deep Space Nine* builds upon them, and whether it succeeds or not. The show airs Saturday nights at 8 p.m. on WCPX, Channel 6.

For trekkies, this is what you want! Cardassians, Bajorans, the Q, Ferengi, and others should keep the station busy. For non-trekkies, give it a try.

This series promises more drama and deeper plots than "Star Trek: The Next Generation," according to its producers.

Stone Temple Pilots rock at Fern Park Station



Photo by Douglas O. Fischer

Stone Temple Pilot put on a "Maximum rock 'n' roll" show at the Fern Park Station. They are currently on the road promoting the release of their debut on Atlantic Records titled *Core*. They started the show off with "Wicked Garden," a classic short chop-rock guitar style song. After playing "Naked Sunday" and the burner "Cracker Man," they played "Sex Type Thing," the song about the American macho jerk. This song is the first single off the album, and the band also has a video on MTV.

King Missile manages to fire off another one with their new release entitled *Happy Hour*

By Greg Rezendes
National News Editor

Very powerful lyrics about "ripping his eye out and eating it" grabbed my attention.

Atlantic recording artist King Missile has done it right with *Happy Hour*, their latest release. This mighty montage of musical hits will certainly wow the music world, with the release of their first cut "Detachable Penis," which hit and holds the #1 slot on the college radio list.

King Missile's wide array of sounds explode out of this powerful new experiment. At times it's hard to determine whether or not this is a alternative band or a low-key rock ensemble.

Whatever they are, this album is sure to both surprise and relax the most sensitive listeners.

I begin my journey down the unknown road of lyrics with "Sink," a drowning guitar chant. I found it to be a slamming new wave dance frenzy.

"Martin Scorsese" is a tribute to the great filmmaker. It may be offensive to some and it certainly is the basis for putting the Parental Advisory seal on the cover. Very

powerful lyrics about "ripping his eye out and eating it" grabbed my attention.

"(Why Are We) Trapped?" is a question that many youths ask themselves after high school when they don't go to college and can't get anywhere with their life. The song sounds almost like a Top 40 pick and is worth the time.

"It's Saturday" is a drum/spoken word duet that gets you thinking about who you are. I liked it because I like the weekend.

The song "VvV (VulvaVoid)" makes very little sense to me but it does have a good listening beat. I find it to be the true club alternative that everyone is looking for.

The song called "Mezaniola" can be classified in two words: hated it. And then there was "Detachable Penis," about the funny problems of men who have removable love rods. I can understand why this song has hit #1.

"Take Me Home" is a slow, put-

you-to-sleep, kind of ease-the-hang-over song that allows the traveler to hear the voice of the guitar in his mind. You can feel the hurt and pain. It's very moving.

"Anywhere" is a calm, cool song that takes you nowhere. "The Evil Children" attacked my ears. Enough said.

The song "And" is almost as bad as "Tom's Diner." "King Murdoch" is a guitar solo that sends itself off on a tangent from the rest of the album. Then King Missile plays "I'm Sorry" which has the lyrics "I'm sorry I never painted a house." Well I'm sorry, too.

The last two songs, "Heaven" and the title track "Happy Hour," show again how versatile and unique this group has proven to be. *Happy Hour* is exactly one hour long and at times can be happy.

King Missile may not be a household name, but these songs will ensure that this sassy album will not easily be forgotten.

Aerospace Society ΣΧ

By Joshua Mussat
Member

Welcome back to another great semester. There are many of interesting activities planned for this semester so hold on to your hats. Our first big event is today, the Student Activities Fair in the Student Center. Please stop by and help man our booth to promote the club to your fellow peers.

Our first official meeting for all new and returning members will be held this evening at 7:00 p.m. The meeting will be held in room E611. An introduction to the club as well as highlighting this semester's events will be discussed as well as the selection of committee members for

our annual SpaceWeek, March 8-12, 1993. The committee will be in charge of all matters dealing with SpaceWeek. If you are interested in helping out, please sign up at this meeting.

Our officers for this year are: President: Stephanie Perkins Vice President: Ronald Hess Treasurer: Alicia Coulombe Secretary: Eric Sorton Historian: Joshua Mussat Advisor: Dr. Erickson Finally, it's that time of year again, dues, dues, dues. Dues for the spring semester are only \$5.00. In return, you will receive discounts when we travel to the Kennedy Space Center, be able to see a free planetarium show and other great discounts. What a bargain!

By Daniel Moquin
Chapter Editor

First things first, welcome back brothers. I hope you all have had a merry holiday season. Also, a very special welcome goes out to the recent initiates of the Beta Alpha Pledge Class. Thanks to our Magister, Todd Weeber, and a very strong pledge class, our role book has just passed the 500 mark. A special thanks goes out to Jason Clancy for pulling off a successful initiation.

Let us all now start to look forward toward another successful semester. Let us all exemplify the bonds of Sigma Chi during this coming semester to each other and our future pledges. Continue to be active and we will be able to earn another Peterson Chapter Award.

Rush will be in full swing this week, so I will take this opportunity to invite anyone on campus who would like to look into a fraternity to give us a call at 252-2277. We invite one and all to come learn what Sigma Chi is all about.

Arnold Air Society ΣΠ

By Amie C. Tavanese
Public Affairs Officer

The Kenneth L. Tallman Squadron of the Arnold Air Society would like to welcome back all the continuing and new students to another exciting and prosperous semester here at Embry-Riddle. The Spring Semester is always important to the Arnold Air Society since it brings with it the National Conclave (NATCON). NATCON is basically a convention that brings all of the Arnold Air Society squadrons around the U.S. from different college campuses together for five days and nights to discuss and award the accomplishments of the past school year. Also discussed at NATCON is the Joint National Project, which is a

project that is designated to be accomplished by all of the different Arnold Air Squadrons around the nation! Currently, the Joint National Project is titled "The Future of America - Our Children" which is an effort to help and work with children. Last year NATCON was held in Missouri, this year we are very fortunate since NATCON will be held right here in Florida at the Hyatt Regency Hotel in Orlando! NATCON will be held from April 9 through April 13. NATCON just happens to coincide with Embry-Riddle's Spring Break! Since Florida is such a prime location for a convention, there should be record attendance this year at NATCON! Good luck to all the other clubs and organizations for a fun and rewarding semester!

SCJ

By Benjamin Brennan
President

in the vicinity of City Island and Dunn Toys & Hobbies. Beverages and appetizers will be provided.

All members are encouraged to attend as we will briskly review past business and plan our agenda for this semester.

If you have any questions or problems concerning SCJ, as always, you may contact me at 257-3905. I hope to see everyone at the meeting.

AAAE

By Peter McIntire
President

Welcome back to another fun-filled and exciting spring semester here at ERAU. I would like to start by telling everyone what our club is about.

The ERAU American Association of Airport Executives, is the student chapter of the National AAAE organization. Our objective is to gain knowledge of the aviation industry through the interaction of students and aviation professionals. We accomplish this goal through airport tours and speakers that we invite to address our club.

On Wednesday Jan. 13, we held

our first meeting with the topic "How to Get a Job in Aviation Management". Jack Slaven from the career center and our advisor, Dr. Boors Travnikis, spoke to us about techniques and helpful hints to improve our chances of getting that first job.

Elections were also held for the positions of secretary, treasurer, and historian. Steve Harvey was elected for secretary, Paul Meyer for treasurer, and Sam Kelly for historian.

Our next meeting is planned for Jan 27. Meeting are held in room 206A, upstairs, Spruance Hall at 7:00 P.M. Speaker and topic will be announced. If you need further information, just drop a note in our box in Student Activities.

ERFSEDS

By Craig Cavallier
Public Relations

ATTENTION! This is to inform the student body of a new, exciting, and potentially explosive club that has just been formed at Embry-Riddle. The Embry-Riddle Future Space Explorers and Developers (ERFSEDS) is the local chapter of an international student organization, the Students for the Exploration and Development of Space (SEDS). This club fosters space-related career development, including hands-on experience in technical and research projects. We hope to assist in the development of leadership skills in a multi-disciplinary environment and welcome students from every major.

ERFSEDS is a forum where students can exchange ideas, learn specific skills, and accomplish a variety of goals related to space. Some of

our currently proposed projects include a trip to Space Camp at Kennedy Space Center, a project fair competition, and the possibility of ground tracking and/or data analysis for existing satellites. In the long term, we plan to host the first ground tracking station for SEDSAT. This student designed and student built satellite is nearing completion at the University of Alabama Huntsville SEDS chapter.

Embry-Riddle is now the state headquarters for all Florida SEDS chapters. As SEDS-FL, we are developing both space-related and other activities involving our chapters.

Check out our booth at the Activities Fair on January 20, 1993, from 10 a.m. to 4 p.m. Our next meeting will be January 26, 1993, 6:30 p.m., upstairs in the Student Center, in the Endeavor Conference Room. Come be a founding member.

Semper Fi

By Mark Bosley
Public Affairs Officer

Welcome back, devil dogs. This semester should prove to be exciting and beneficial to all club members. We are currently trying to acquire simulator time at NAS Jacksonville on the P-3 Orion as well as F/A-18 Hornets. Interested members may also be able to participate in some weekend marches with the Army

ROTC which would benefit those planning to attend OCS this summer.

Prospective 1995 graduates take note: OCS SLOTS ARE AVAILABLE! Contact Capt. Merchant or GYSGT Bivens for details during their next visit to the campus on Feb. 2-5 or call 1-800-432-2061. Capt. Merchant will also be giving a flight orientation for those interested on Feb. 3-4.

Stay motivated and achieve those goals. Semper Fi.

Army ROTC

By Cadet Jaye Howell
Staff Reporter

The cadets ended last semester with several activities that concluded a very successful year. The cadets were first given a chance to take a ride in the Army's Hewy helicopter. The choppers were a prelude to the change of command ceremony that was to follow.

The aircraft was provided by one of the local National Guard units. The flight lasted about ten minutes and took the cadets out to the beach and then the pilots performed sever-

al turns, before returning to Riddle. After the helicopter rides, the cadets then formed up for the formal change of command. In the ceremony, the battalion colors were passed from former commander c/LTC Meadows to current commander c/LTC Lineberry. Also included were speeches by LTC Moore and the two commanders.

The battalion has already started this semester with its physical fitness training and leadership labs, but it is not too late to join and participate in all the fun planned for this semester. Contact Maj. Childre at extension 6468.

Clubs Policy

- ➔ All clubs and organizations are encouraged to submit club article to keep club members up-to-date. Club articles are free of charge.
- ➔ All articles must be type-written, double spaced or on disk format (unformatted in Word Star or Microsoft Word).
- ➔ Deadline for submission of all club material is Wednesday at 5 p.m., one week prior to publication.
- ➔ Photos may be submitted with club articles, however no guarantee is made for their publication in The Avion. Negatives are required.
- ➔ All submitted material becomes property of the Avion with the exception of disks.
- ➔ The Avion reserves the right to edit all submitted copy.
- ➔ All articles must be accompanied by an author's name with the proper title or the article will not be published.
- ➔ For more information stop by or call the Avion office at (904) 226-6049.

ΣΤΔ

By Stefan Kageman
President

Sigma Tau Delta is an internationally recognized English honor society. Here at Embry-Riddle (the Gamma Rho chapter) we have an interdisciplinary focus on the arts beyond the literary. Our activities extend from museum visits to sponsoring Humanities colloquia and major literary endeavors. Furthermore, members have the opportunity to apply for special scholarships as well as have their writings published in The Rectangle, which is Sigma Tau Delta's national literary magazine. Now that the promotional bit is written may I say "Welcome back" to everyone. Some news to those who have not yet learned; our President, Negar

Afshar, graduated last December after a brief term in office, and I, Stefan Kageman, have been duly sworn in to uphold and preserve the noble Sigma Tau Delta virtues of Sincerity, Truth, and Design. Our V.P. is Stephen Jehle, and secretary/treasurer is David Douglas. Believe it or not, but, Creations is finally done, published and available to the student body! We can put ourselves on the back for that and look forward to all the praise from those who read it (I hope). The first meeting is on Thursday the 21st, at 5:30 p.m. in the Student Center Conference Room (next to the Career Center on second floor of the U.C.). Among other things, we will be discussing the forthcoming trip to the Salvador Dali museum in Tampa. Anyone interested in ΣΤΔ is welcome to attend.

ΘΦΑ

By Kelly Watkins
Public Relations

Alpha Tau had a record-breaking semester. Sporting 14 sisters, we went into Rush with high morale. We came out with 14 pledges! (Which made Big Sister matchups very interesting.) In the end, we initiated 9 new sisters. Wow! Good job, girls!

A new sorority joined us on our male-dominant campus this semester, so we had a new attitude for Greek Week. Did you know that if two sororities join together for tug-o-war, that Sigma Pi doesn't stand a chance?

A standing ovation request prompted us to again sponsor an All-

Greek Bonfire that we held on the beach. It has become a new greek tradition; one that Theta Phi is proud to be its founders. Our other socials included hosting Monte Carlo night with Lambda Chi Alpha and a welcome party for Alpha Xi Delta.

Money-wise, we earned a few bucks this semester by selling flowers for Sweetest Day. And the pledge-sisters held a "topless" car wash. (meaning they didn't wash the tops of the cars!) After Hurricane Andrew left his mark in our Southern Florida, we chose to make relief our semester charity.

This up-coming spring is race season, as is Spring Break. So for whatever reason, we would love for any Theta Phi's to come visit us in Daytona Beach.

CFC

By Dennis J. Martinez
Public Relations

Welcome back to a new semester. Again, we hope you've had a safe holiday. Starting off the new year, the Christian Fellowship Club will be taking a trip to St. Augustine, Florida. Several of you may remember the last trip there. You can mark January 30 on your calendar for this event. There is no fee, but you may wish to bring some cash for food, or to help cover gas expenses.

Later in the semester, we'll be going bowling. You'll need to come to our meetings to find out the details. Future Avion articles will keep you informed if you cannot come, but you will be missed.

We'd like to make an open invitation to everyone interested in Christian Fellowship to join us on Saturday nights at 6:30 p.m. in the Student Center Conference room, across from the Information Center. We value every member as brothers in a different way than other clubs. Please, come and check us out!

ΣΠ

By Tore Gudroed Markussen
Head

Welcome back Gentlemen! This article is the first of many you will see throughout this semester from your honorable and worthy Herald. I am pleased to announce that all the brothers and taints of Zeta-Beta chapter of Sigma Pi made it back from winter break in one piece. While many of our fellow Embry-Riddle students were relaxing, our Brotherhood was hard at work! During the past month, many brothers gathered at a social debutante's house to promote a better understanding of the killer whale. This was made possible by monetary contributions for rides on Shamu. Was this ever tried with Flipper? In Manchester, NH brothers challenged themselves to improve planet Earth while supporting Miller and Anheuser-Bush in what became one of the largest self-supported recycling drives in modern history. In a different part of the great states, several brothers met in Somerset, Pennsylvania for a weekend ski rally. Benefiting underprivileged and under-aged school girls, this event was a great success. A Special thanks goes out to Squirrel for the use of his mountain chalet. Meanwhile in the neighboring state of New York, several members joined to organize an awareness of the need to conserve our precious natural resources. These outstanding youths launched a car pool bonanza

which traveled across New York to the vicinity of Gore mountain. Also, these three members along with the rest of their Pi pledge class helped restock Mid-Florida's Red Cross blood supply. I am sure many individuals benefited this holiday season from your selfless acts. The new brothers of Sigma Pi are as follows: Pat Liberio, Mike Sieberer, Damon Legault, Paul Perry (a.k.a. F.F.), Mike Waddell, John Pierson, and Matt Pettit. Good job men. We would also like to acknowledge the new executive council of Zeta-Beta chapter. These brothers are as follows: Anthony Capuana (President), Jeff Laver (Vice-President), Greg Johnson (Treasurer), Paul Rentz (Secretary), Cory Delger (Sgt. at Arms), and Tore Gudroed Markussen (Herald). In addition, I would like to mention the brothers who served on the past executive council, thanks a lot for a job well done. Once again, we are in the midst of spring rush and are looking for a few good men. If you think you have what it takes to be a Sigma Pi, visit our courtesy booth located in the student center. This evening an information seminar will be held (location to be announced) and the upcoming weekend activities include a softball barbecue and a special event. For more information on Sigma Pi, call our house at 257-4376 (Al's Germ). Finally, the brothers would like to welcome all returning and new students and hope the new year brings you fame and fortune.



Greeks are involved in many on campus activities. In this picture, members of each fraternity discuss greek week rules.

AHP

By David Macko
Secretary

Welcome back to all you bro's out there. It's back to the grind for sure. Hope you all had an outstanding break. I know Times Square was kickin' on New Year's Eve for a lot of Rho, gotta love N.Y.

In current news we have some important dates coming up for spring rush. For all those students, old and new, who are interested in becoming involved in the greek world. Alpha Eta Rho is hosting an all out wet rush party this Friday the 22nd at the BBQ King located 1 block south on Ridgewood past Bellevue. It will be a chance for good times and most of all a chance to get to know the brothers of AHP. All of Riddle is welcome and don't forget beverages served!

Alpha Eta Rho is a collegiate fraternity founded to bring those students having a common interest in the field of commercial aviation. Our greek letters AHP stand for "air" and we simply serve to actively associate the interested students of aviation with leaders and executives in the close association we all have which is strengthened through the bonds of an international aviation fraternity, establishes aviation

opportunities for every member and inspires interest and cooperation among those in the profession. There are over sixty-five active chapters throughout the country. Effective communication enables each chapter to remain constantly alert to every opportunity in the aviation field.

I'm Glad to report that brother Paul Hromanik has returned from Somalia with his KC-10 refueler. He thinks he'll be headed for the Middle East soon. Hopefully, everything will smooth over in that part of the world and his services won't be needed. All the local AHP brothers are jealous and proud for brother Merle Perry. Merle is presently in the Navy and has just received his flight slot. Good luck Merle. Scott, "the big kahuna" has finally left Daytona after a long and prosperous career at ERAU. Scott is going to find his fame up in Atlanta with the dozen or so of our AHP alumni, that have started a sort of Alpha Eta Rho colony. Good luck to you Scott. We'll miss you. And we'll get that certificate to you sometime soon.

If you want to get involved, come and join the party this Friday at the BBQ King and see what we are all about. Also, were having a Barbecue at the pit at school this Sunday. For information Call 253-6672.

Autos for sale

79 Chevrolet Malibu, reliable, good condition. Call 761-6019, ask for Julian or leave message.

89 Ford F-150 XLT Lariat Pickup. 4.9l 6 cyl, 5 speed, PS, PB, AC, Cruise, AM/FM Cassette. \$7900. Call 439-4770, ask for Kat or Mike.

83 Cougar V6 Auto. New part inside. Good condition. \$2200 obo. Call 756-3474 in the evening.

86 Honda Interceptor 500. Looks and runs great. \$1500. 760-3097.

89 Camaro. Not a showcar, but a good driver. 327 4bd, M-21 4 Spd. \$2000 as is. Call Ken or leave a message. 760-9265.

Nissan 1981 280 ZX. All power, tint, cruise, T-tops, stereo, A/C. \$2850. 257-3093

1985 Toyota Corolla GTS, 16 valve, 5 speed, good condition, runs great, 105k mi. \$3100. Call 904-788-8431.

1983 Toyota Terrell, 5 speed, very dependable, new starter, new alternator, asking \$1000 o.b.o. Call 904-788-8431.

1981 Ford pickup, F-100 300 6 cyl., 3 spd. with o.d., topper, alloy wheels, captain chairs, many extras. \$2000. Work 226-6781 ask for Roger or home (1) 904-738-7946.

1981 Honda 400cc, runs great, \$300. Call 226-7322.

1986 Honda Shadow, black and chrome, garage kept, excellent condition, helmet, tank bag, saddle bags, Honda cover, cruise pedals. Must see to appreciate! \$2100. Ask for Gary at 756-7965.

1986 Merkur XR4TI Turbo. Leather seats, Sunroof, beautiful red. \$3800 call 253-0208.

Roommates

River front penthouse condo for sale. One block to ocean. \$91,900. Call 760-9889. Ask for Laura.

Female to share master bedroom in Port Orange house. \$181 rent plus 1/4 utilities. Reply to Box 8435.

2 roommates wanted. Non-smokers preferred for a 3 bedroom, 2 bath apartment at the Barrington. \$150 a month plus 1/3 utilities. Call Greg 258-7521.

Roommate needed: female, non-smoker, 2 br, 2 bath apt. Very nice, furnished, fireplace, balcony, all appliances. \$307 mo. plus 1/2 utilities. Call 253-5194.

Pelican Bay duplex for sale. 3 bedroom, 2 1/2 bath. \$114,900. 24 hour security, on golf course and waterfront. Contact Mark at 258-0809 or (305) 941-3267.

Two females needed for 2 bedrooms. Huge house, yard, washer/dryer, cable, "the works". \$210/mo plus 1/4 utilities, 2car garage. Call Caroline or Diane at 253-8818.

Looking for two roommates to share a three bedroom apartment. Must be neat and responsible. Small room \$150. Large room \$200. Preferably staying through summer. Call Mike at 258-1685.

Wanted: Clean, responsible Junior or Senior for 3 bedroom house in Fairway Estates. \$200 a month plus 1/3 phone, elec., and cable. Call Ron 248-3259.

Roommate wanted to share clean, quiet, comfortable 3 bedroom, 2 bath house. Contact Kirt at 257-2514.

Townhouse for sale. Only 2 miles from ERAU. 1 mile from shopping and I-4 two levels, two bedrooms, two bath, full appliances. Includes water, trash removal, pool and cable. Assumable mortgage. For further information please call 788-4343

Female roommate wanted: Neat, mature, non-smoker to share a very nice 2 bdrm, 2bath house in Spruce Creek Fly-in. Includes washer dryer, fireplace, own bedroom, bathroom, and study area. Rent: \$225 + 1/3 utilities. Call 760-9334.

Roommate Wanted. Non-smoker, male or female. 2bedroom, 2bath, washer and dryer. Island Club apt. \$292.50 + 1/2 utilities. Contact Bob at 761-9309.

Contemporary Jewel. 1989 built, 3 bdrm, 2 bath, 2 car garage on wooded corner lot. Split bedroom plan. Cathedral ceilings. Apx 4 miles to ERAU. Port Orange. Priced for fast sale \$81,960. 756-1999.

Roommate needed. 2 bed, 2 bath, 2 story townhouse. Fully furnished except second bedroom. \$225 + 1/2 util. Female preferred. 760-3097.

Large 2BR, furnished apt's beachside Daytona. 512 Phoenix Ave. (off A1A) Off street parking. No pet 1/2 BI to beach. Great neighborhood. \$455/mo. +dep. includes water, trash, heat. (904)-228-0440.

House to share, NEW, quiet Port Orange Neighborhood. 3 bed, 2 bath, fully furnished, washer/dryer, microwave, cable. 8 minutes to school. \$235/mo + 1/3 utilities. Paul 760-0419, 788-8870.

Roommate Wanted. \$174/mo + utilities. Beachside across from 701 South. 238-4473.

Misc. for sale

Zenith 286 Lap top computer, 40 MB hard drive, 4MB memory, LCD display with VGA capability. Licensed copies of Word Perfect 5.1 and other utilities on drive, printer card, carrying case. VERY TRANSPORTABLE. \$1,100 negotiable. Call Greg at 788-0150.

Dorm room size frig for sale. Like new. Only \$40. Don't miss it! Call 788-6831. Ask for Mark.

For sale. Weight bench w/ weights \$100. Jaguar semi-automatic paintball gun \$175. Call 258-1685.

Drafting table - adjustable height. 4' x 2.5'. Asking only \$20. Call 226-6538. Furniture for sale. Moving sale. Couch, Love seat, desks, pool table, tables, nightstand, lamps, etc. Cheap prices, contact Dan, Jack or Dave at 756-5528.

For sale. Cannonade SR500 Black Lightning. Hardly Ridden. Like new. \$450, offers. RC cars, associated, Tamiya, tons of parts, \$1200 value-\$300, offers. Novatel transportable cellular phone w/accessories. \$150. Call James at 255-9243.

For sale: 19" color TV w/ remote \$85. Sleeper sofa, 3 cushion in good condition (will deliver) \$125. Push lawnmower \$25. Ask for Chuck at 760-3490. ERAU BOX #4203.

For sale: Queen-size waterbed; good condition w/ heater padded rails and head board \$100. Desk; good condition \$25.

Kysco R/C car for sale: 1/10 scale, foam tires, looks like Kanwood Porsche 962. Asking \$125 obo. Call Hank at 760-8571.

Raleigh Pointe mountain bike. Complete Shimano 200GS system. Excellent condition. Asking only \$250. Call Lou at 226-6538.

Helmet for sale. Bell touring star II \$35. Bell grand national chmp \$35. KIWI \$20 call Dennis. 258-2890, 252-6123.

Surfboard For Sale. Wave riding vehicles. 6'3" length, 18 and 5/8 width. Excellent condition, very fun board. \$175. David Hilton 238-3928(home) and 226-6637(work).

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 Avion office at (904) 226-6049.

Super Nintendo Entertainment System. Includes Control Deck, 2 controllers, organization center, 4 games, and hint books. Only \$250 firm (over \$375 value). Call Steve at 226-6576.

Firmans bought and sold. Call Kurt 274-2083. ATF Rules apply.

Furniture for sale: Waterbed, super single with padded rails. Includes headboard, heater, mattress pad. \$80 obo. Computer desk, good condition. \$60 obo. Call J.P. Walsh, ext 6800 or 258-2249.

For Sale. Queen-Size semi-waveless waterbed with heater and padded frame; \$200 obo. Round wooden dinette table and 4 padded wooden chairs; \$100 obo. If interested please call 252-5681 and ask for Cheryl.

12 speed touring bike. Schwinn "LeTour." Front and Rear quick release, 41/30 chrome moly frame, Dia/comp brakes and toe clips. Lifetime guarantee. \$229. Call Charles 274-2722.

Ladies in line skates. Roller blades brand name. White with purple wheels and purple + fluorescent yellow laces. Size 9 and 1/2. These skates have only been worn a few times. \$85. Price includes wrist guards. Call Charles 274-2722.

Roller blades brand name. In line skates, "lightning," these top of the line skates have "hardly" been worn. Size 11 and 1/2. Price includes pair of wrist guards. \$153. Call Charles 274-2722.

Stereo Component Cabinet with glass door & lower drawer. Walnut formica. Will hold up to five units. \$60 pb. 226-6768.

Desk Walnut Formica 40LX30W with 2 drawers, swivel office chair included. \$60 pb 226-6768.

Used Furniture Trade in clearance, dresser \$39, desk \$49, Sofa & Love seat \$199 and table \$10 each, chairs \$10 up and more. Longstreet Furniture 160 N. Beach St. next to Coliseum night club, downtown Daytona.

For Sale: Emerson rack stereo system w/hual cassette, EQ, motor, + 2 speakers, \$50 obo. Contact Marc at Box 7463 or call 258-7266.

Earn extra income distributing promotional materials on campus. Flexible, part-time hours. For more information call Sharon at 1-800-592-2121 x126.

Flight Instruction- Private, commercial, instrument, multi. Lowest rates available, flexible. Call for info 258-2890, Dennis Gleisner, CFII, MII.

Multi-Engine flight training 70hr. block, MII or initial. All other certificates and ratings also available. Don 677-9730.

Get your CFI fast and cheap! 1200 hr. flight instructor. Fly out of Daytona. All other ratings available. Call Ken or leave a message at 760-9265.

Car Repairs- If you need help with your car, give me a call. ASE certified mechanic. Call Patrick at 255-2132.

Quality aircraft rental. Tomahawk, Arrow, Warrior, Seminol, C-172. Also quality instruction call 761-1711. Ask for Steve or Forest.

Get your Multi-Engine, multi-instructor rating, or ATP as inexpensive as possible. Call Stefan at 322-0996.

Flight Instruction- Primary thru ATP competitive rates. First oral hour free. Call Steve 760-9889.

Funds for Flight Training. Detailed manual outline all private & Gov't. Grants, scholarships and low interest loans millions available! Send \$14.95 to: Aviation Financial Services, Dept. ER, PO Box 96 Buffalo, New York 14207-0096.

Flight Instruction- Private, commercial, instrument. Any Questions call 767-9173. Ask for Jeff Cook.

Akido Instructor seeking students and faculty advisor for possible club formation. Contact Peter at Box 2037.

Need a Ride- To: South Carolina any weekend especially Feb.12-Feb15, (Pres. Day) will help with cost, would like to be close to Clemson Univ. Call John at 226-7566 ERAU#5475.

Car Care Service- New student, had professional service back home, anyone interested call John at 226-7566 ERAU#5475. Very experienced for a great price.

Personals

The fully automatic duck is back by popular demand.

HE KNOWS WHO HE IS- Thanks for nothing! How was your Christmas?

CRAIG Thank for the ski trip and cool New Year's. (Oh, sank you!), and really sweet nightmare. I love. KAREN

DOOLITTLE STAFF Doolittle, doolittle, doolittle...We're the best! GO BUNNY The acorn bags are back! All hail!

1st EAST RUNAWAYS Good to have you all the back - not! Work harder this semester! Love, "LOO-MYSTIR"

CAULDRY KETCH Anytime must be stopped at all courts. Its weakness is its color. Last reported location near North York Moors. TOLWYN TANCRID

Welcome back all of my AZA's! I hope your vacation was lots of fun. Get ready for our first big rush calendar and good luck this semester! Love you all, BLONDIE

SHERRI G. So here it is babe. Finally your name in the paper. So what does your Saturday night look like right now? Give me a call or leave a message in my box. Peace. DOUG S.

DEAR SHARK THIEF- The 9 foot hammerhead shark stolen had a contagious disease. Please return it before the neighbors release their killer whale to find it.

HEY BROS, Welcome back all of my AXA brothers from your last little sister. I still love you. Good luck and have a great semester. Love ya, INGA

Pat that A back in ERAU!!

I NEVER: In a cave with green eggs and ham.

The proposition that many people are wiser than one person is the foundation of democracy. Ever seen a committee at work? THE BATHROOM PHILOSOPHER

KEITH & BRIAN, We have big plans for you two this semester. so just stay alert and we will be in touch SURFER CHECK & CO.

PUSSYCAT New Year's was wonderful. I hope things work so that you will be here for a while. I will really miss you if you leave. KITTY

Well, the Avion is looking for a new photo editor, since we don't currently seem to have one. Any interested people can see Bill in the Avion office or come to our meeting tonight at 6.

PETE Tell that shenck Bill I said hi! I hope you don't miss Millie that much. I know you were kind of stuck on her, so to speak (but that isn't anything a cold glass of water won't fix). BUDDY

GREEKS & CLUBS

\$1,000 AN HOUR!
 Each member of your frat, sorority team, club, etc. pitches in just one hour and your group can raise \$1,000 in just a few days!
 Plus a chance to earn \$1,000 for yourself!
 No cost. No obligation.
 1-800-932-0528, ext. 85

Asteroid

(continued from page B1)

The best way to study the history of Toutatis would be through the analysis of samples returned from both Toutatis components. While there are no plans yet to rendezvous with Toutatis, Ostro said it and dozens of other near-Earth asteroids are leading candidates for robotic flyby, rendezvous and sample-return missions because of the ease of maneuvering spacecraft between the orbits of Earth and the asteroids.

The radar observations were carried out at the Goldstone Deep Space Communications complex. For most of the work, a 400,000-watt coded radio transmission was beamed at Toutatis from the Goldstone main antenna. The echoes, which took as little as 24 seconds to travel to Toutatis and back, were received by the new antenna and relayed back to the station where they were decoded and processed into images.

Eventually a detailed three-dimensional computer model of the object will be constructed from the data, Ostro said.

The radar observations were part of the Planetary Astronomy Program of NASA's Office of Space Science and Applications.

Probes

(continued from page B1)

using imaging radar. The spacecraft mapped 99 percent of the surface at high resolution, parts of it in stereo, and is presently mapping the gravitational field.

In October 1989, the Galileo spacecraft began a gravity-assist journey to Jupiter, where it will place a probe in the atmosphere and observe the planet and satellites from orbit for two years.

In a joint mission with the European Space Agency, NASA launched the Ulysses spacecraft in 1990 on a flight over the poles of the sun.

In September 1992, Mars Observer was launched to Mars. It is scheduled to go into orbit around the planet in August 1993 and make many observations during a period of one Martian year.

As 1992 rounded out three decades of scientific growth and achievement in observing and understanding the Solar System and the development of highly sophisticated spacecraft and missions, NASA began to look again at the small, higher-risk kind of mission represented by Mariner 2 thirty years ago.

Tachyon

(continued from page B1)

light. A tachyon with zero energy would theoretically have infinite velocity.
Born 1993, Died 1893
 Tachyons would display "time reversal". In other words a tachyon would appear to a non-tachyon being (mainly us) to be absorbed before it was emitted. This basically occurs because the tachyon "out-distances" its birth signal.

The best way to visualize this may be to think of the tortoise and the hare. Think of the tortoise as the light signal that shows the birth of the tachyon and the hare as the tachyon itself. When the hare crosses the finish line, an observer witnesses the hare die.

What would the observer claim came first, the tachyon's death or it's birth? The observer would see the tachyon's death before it's birth. To the observer, the tachyon appears to travel backward in time.

Go Away!
 If tachyons exist, they would be one potential source for anti-gravity, a fascinating consequence of our understanding of physics. Instead of attracting matter, tachyons would repel matter.

The material in this article was gathered from the following text available from the Jack R. Hunt Memorial Library.
Faster-than-Light Particles: A Review of Tachyon Characteristics, by Edward A. Puchner.

EAA

(continued from page B3)

Convention, VIP courtesies at the Convention, a sponsorship plaque, a complimentary subscription to Sport Aviation for Kids magazine and periodic reports on the progress of the Young Eagles Program.
 For more information on the Young Eagles Program or the Eagle Flight Society, contact the Young Eagles Office, P.O. Box 2683, Oshkosh, WI 54903-2683, or call (414) 426-4831.

- ATTENTION CONTINUING STUDENTS -

FALL/SPRING 93/94 HOUSING SIGN-UP

1993/94 Housing contracts will be available February 1st through 12th in the Housing office, McKay Hall, Suite 278. All contracts must include a \$150.00 prepayment, paid and validated at the Cashiers office. Deadline for housing sign up is February 12th at 4:30 p.m. Contracts from continuing students will be randomly selected for available spaces. Contracts received after February 12 will be placed on a secondary waiting list.

1993/94 Housing fees are as follows:

DOOLITTLE HALL	\$900.00 per semester/per student
MCKAY HALL	\$900.00 per semester/per student
CHANUTE COMPLEX	\$900.00 per semester/per student

Thank you for your cooperation!

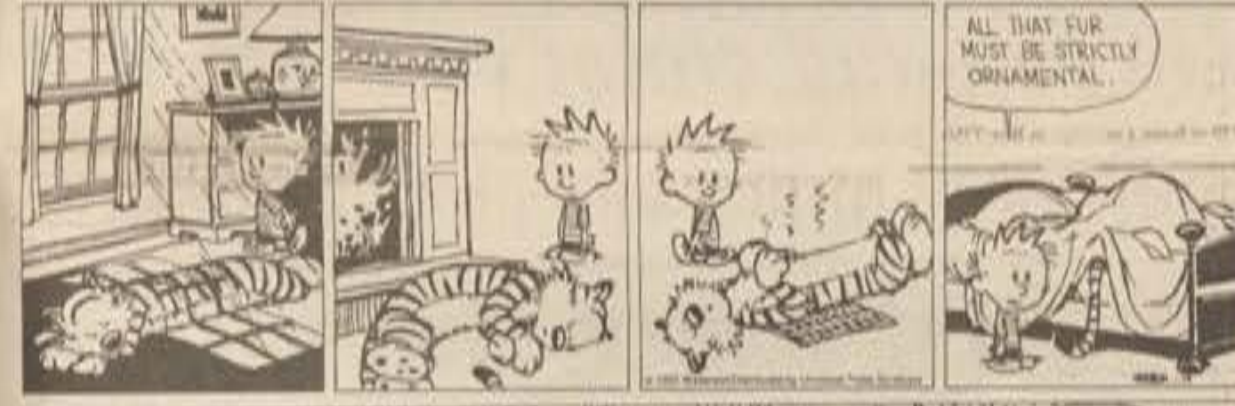


Calvin and Hobbes

by Bill Waterson

Far Side

by Gary Larson



Outland by Berkeley Breathed



Animal horoscopes



Moses parting his hair



Impolite as they were, the other bears could never help staring at Larry's enormous deer gut.



"You're darn lucky, Saunders... If that rhino had really respected you as an enemy, he'd have done a heck of a lot more than just slap your face."



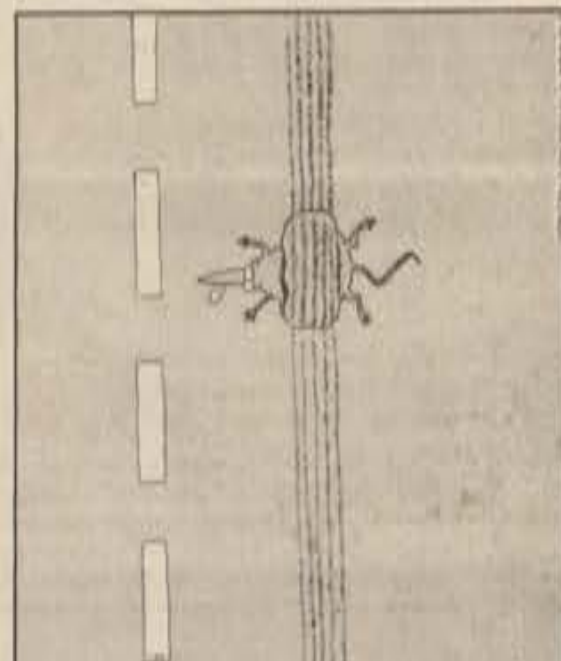
A tragedy occurs off the coast of a land called Honah-Leo.



Regrettably, Professor DeWitt's boasting fell on too many jealous ears, and that night, as he stumbled from the bar, he was etherized by an unknown assailant and "relieved" of his trophy.



Scene from "Insurance Salesman of the Opera."



Scenes that make a crow smile

Morrison's Hospitality Group

Announces the Meal Plan Cup Logo Design Contest!

Your mission: Design the new logo for the 12 oz. meal plan cup.

Who may enter: Embry-Riddle Aeronautical University Students, Staff and Faculty, at the Daytona Beach campus, active Spring 1993.

Deadline: February 2, 1993 (Groundhog Day) by 5 pm.

Custom Card Prizes:

1st Place	\$200.00
2nd Place	\$100.00
3rd Place	\$ 50.00

Let
your
creativity
SHINE!!!

Turn in your best design to the Morrison's office, JPRSC.

Requirements: (breaking these rules will result in disqualification from this contest)

- Logo must:
1. be decent and positive (nothing crude or rude).
 2. be timely & useable for a duration of at least 18 months.
 3. must display Morrison's Hospitality Group within the design.
 4. be original and your own work, no exceptions.
 5. be produced using personal resources only.

Prizes to be awarded Feb. 10, 1993, 1:30, at the *Hot Wok Cafe*.

Be There! You must be present to win and claim your prize.

Plus, check out these awesome programs now underway at Morrison's

HOT WOK CAFE!

Morrison's Hospitality Group presents Showtime Cooking of Oriental-style cuisine every Wednesday from 10:30 am. until 2:00 pm. at *The Wok Station* in the John Paul Riddle Student Center.

All stir-fried entrees are \$1.95 or entree on the meal plan. All entrees feature steamed and/or fried rice.

Purchase Hot Wok Cafe tickets at the cashier stations at the food court.

UNBELIEVABLE SAVINGS!

Just check out this **Custom Card sale:** Valuable savings to make you think about your on-campus dining alternatives!

Custom Card Value	Your Price	You Save
\$500	\$400	\$100
\$400	\$350	\$50
\$300	\$260	\$40
\$200	\$170	\$30
\$100	\$90	\$10

This is a great deal! Act now! Sale ends Feb. 2, 1993 at 5 pm. Stay on campus and study while you eat. Save money, time and get better grades!

Savings example : (based upon 20% savings through \$500 offer)

Two eggs (any style)	\$0.90	Cash price	\$2.25
Hash Browns	\$0.60	Savings	
Whole Wheat Toast	\$0.15	of 20% off	\$0.45
20 oz. mug of coffee	\$0.60	Sale price	\$1.80

You'll save a bundle! Maybe \$5, \$10, \$20 or more per week!

Watch for Morrison's Hospitality Group's Def Leppard concert ticket giveaway contest in the next issue of the Avion.

All offers or terms, expressed or implied, within the above advertisement are subject to change at any time with or without notice. All sales are final. All sales and promotions are subject to all current written contractual agreements between Morrison's Hospitality Group and Embry-Riddle Aeronautical University. Void if or where prohibited. See purchase agreement and receipt for specific rules, prices and agreements for all sale purposes. Paid advertisement printed in the Avion, 20 Jan 1993.