

3-17-1993

## Avion 1993-03-17 (B)

Embry-Riddle Aeronautical University

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# SPACE TECHNOLOGY

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## ORBITER UPDATE

**Columbia** - Columbia is at Launch Pad 39A where the final flight readiness test has been conducted. Launch of STS-55 is set for 10 a.m. Sunday, March 21.

**Discovery** - Discovery was rolled over to Launch Pad 39B on Monday morning and the Terminal Countdown Demonstration Test is scheduled for today. Launch of STS-56 is planned for sometime around April 7.

**Endeavour** - The Space Shuttle Endeavour is in OPF Bay 1 where it underwent Crew Equipment Interface Tests on Saturday. Endeavour will launch on STS-57 on April 28.

**Atlantis** - The orbiter Atlantis is in California for modifications at the Rockwell International plant. Over the next several months Atlantis will be inspected and upgraded.

## Columbia launch date set for the third time German Spacelab D-2 to finally fly aboard STS-55 with its seven-member crew

By Brian Gamage  
Space Technology Editor

March 21, 1993 has now been set as the launch date for space shuttle mission STS-55. Shuttle Columbia and her crew will finally fly the second German Spacelab mission, designated Spacelab D-2, on a nine day space journey dedicated to fundamental research in the fields of life and materials sciences.

This spacelab flight will carry 92 experiments, which were developed with the European Space Agency's (ESA) funding. The responsibility for the complete scientific program is in the hands of the German Aerospace Research Establishment, which will perform all payload operations from its space operation control center in Munich, Germany.

The launch window on March 21 opens at 9:52 a.m. and, once in orbit, the crew will split into two teams in order to conduct science operations around the clock.

The Spacelab D-2 mission duration is planned for nine days and will conclude with a landing at Kennedy Space Center's Shuttle Landing Facility.

The facilities on board the Spacelab include a laboratory for research in human physiology in space. This facility will be used to perform an integrated screening of

the human body in space as it is able to take simultaneous measurements of the respiratory, cardiovascular and endocrine systems.

The astronauts will undergo different sets of test at regular intervals during the mission.

The Spacelab will also carry the Advanced Fluid Physics Module which will accommodate five experiments for research in fluid physics, while six experiments in the field of materials research will be also flown.

Two further experiments flying on Spacelab D-2, the Crew Tele-support Experiment and the Microgravity Measurement Assembly, will serve to validate concepts designed for the future Columbus Attached Laboratory.

Germany's Hans Schlegel and Ulrich Walter, along with the NASA crew members, will be supported on the ground by astronaut Ulf Merbold, who flew twice in space with Spacelab 1 in 1983 and TML-1 in 1992.

Merbold will be in the control room in Munich as science coordinator and will support the activities of his astronaut colleagues.

Columbia's launch date will have an influence on the next mission to be flown. Space Shuttle Discovery, flying the ATLAS 2 payload on shuttle mission STS-56, now targeted for launch sometime around



The crew of STS-55 include in the front, from left to right, pilot Terence Hendricks, mission commander Steven Nagel, and mission specialist, Charles Precourt. In the back are, left to right, mission specialist Bernhard Harris Jr., payload specialist Hans Schlegel, payload commander Jerry Ross, and payload specialist Ulrich Walter.

April 7th. The final launch date for STS-56 will be set after a Flight Readiness Review meeting to be held about two weeks before launch. "The shuttle team has done a great

job such as the hydraulic flex hose problem and putting together a new plan for processing activities" said Shuttle Director Tom Utman.

"Also the cooperation with the Navy, the United States Air Force and Hughes Space and Communication Company made the March 21st launch of Columbia possible," Utman said.

## Russian Space Agency once operated without any laws

By Mike Dienhart  
Staff Reporter

Due to the global character of space activities as well as the universal interest of the international community regarding their consequences, international law on the exploration and use of outer space has developed rapidly. Many countries, including the U.S., Britain and Sweden, have responded with specific domestic legislation governing space activities. However, despite a huge space program, the former Soviet Union had no legislation on space activities of an open nature. Theoretically, they were "regulated" by the secret rules adopted by various agencies of the communist government.

The question now concerns the status of the break-up of the USSR, the appearance of a number of sovereign states, and the subsequent formation of the Commonwealth of Independent States (CIS).

Taking into account the economic, scientific and technical legacy of the Soviet space program there are important incentives to carry out space activities jointly among the member states of the CIS. The first

treaty to define the relationship of the interested member states, the Agreement on Combined Activities in the Exploration and Use of Outer Space, was signed at the highest level among nine CIS members almost simultaneously with the creation of the CIS on December 30, 1991.

This Agreement is in part a general statement. It notes the necessity to develop space activities, the significance of space science and technology for the development of the Commonwealth and the need for combined efforts. While the Agreement also sets out how the combined efforts should be undertaken, much was left to subsequent treaties.

In May, 1992, a new Agreement was signed by all CIS member states except Moldova. This treaty developed some provisions of the previous one, particularly on rights over ground infrastructure for space programs. One of its main provisions stipulates that ground segment

elements, such as the Baikonur cosmodrome and the launch and landing complexes, are to be considered the property of the state they are located in.

Though the combination of these treaties has regulated some of the most pressing problems associated with the transition of the space program, the task falls to Russia to take over the bulk of the program. In contrast to its Soviet predecessors, Russia has acted quickly to consolidate its position on the forefront of the space program. In February 1992 President Yeltsin issued a Decree on the creation of the Russian Space Agency. In April the Russian government set down the powers of the Agency. By these actions the Russian Space Agency has been charged with the elaboration and realization of Russian space policy. It is expected that the Ukraine and other CIS Republics will soon enact similar legislation in order to aid the consolidation of space activities.

...the former Soviet Union had no legislation on space activities of an open nature.

## Goldin announces changes in space station redesign effort

By Brian Gamage  
Space Technology Editor

A series of organizational changes to improve the focus on programs and enhance relationships were announced last week by NASA Administrator Daniel S. Goldin.

In a move to strengthen the top-level management of the agency, Goldin has named John R. Dailey as Acting Deputy Administrator. Dailey has been serving as Associate Deputy Administrator since November 1992 after retiring from a highly distinguished 36-year career in the Marine Corps.

The Administrator also announced that Dr. Joseph Shea, recently named as Assistant Deputy Administrator for Space Station Analysis, will have oversight of all space station related development activities.

The organizational changes particularly target NASA relations with American industry, academia, government and non-government laboratories, and international partners. "Science and exploration are what NASA is all about," the Administrator said. "These changes will reestablish that focus."

New program offices for Life and

Microgravity Sciences and Applications and for Advanced Concepts and Technology have been formally established and will report directly to the Administrator.

The official formation of the Office of Planetary Science and Astrophysics and the Office of Mission to Planet Earth also are being implemented effective immediately. The plan to form these offices out of the former Office of Space Science and Applications was announced in October 1992.

Named as Associate Administrator for Life and Microgravity Sciences and Applications is Dr. Harry C. Holloway, Deputy Dean of the Uniformed Services University of the Health Sciences, Bethesda, Md.

"The President wants the current space station redesigned..."

-Daniel Goldin, NASA Administrator

Assisting Dr. Holloway in setting up this new organization will be Dr. Bonnie J. Dunbar, a NASA astronaut since 1981. Dunbar, most recently served as Payload Commander for shuttle mission STS-50, conducted during the summer of 1992.

The announcements are critical to President Clinton's stated objective for a strong and productive space program, which includes development of a space station.

Goldin said, "The President wants the current space station redesigned as part of a program that is more efficient, effective and capable of producing greater returns on our investment. The redesigned space station must provide for significant long duration space research in materials and life sciences during this decade."

The Administrator also pointed out that, "Turning back the pages of NASA's history, the agency's greatest scientific research in life sciences was during the Skylab program, in which there was a similar emphasis placed on the activity in an organizational sense."

The Administrator also has taken measures to strengthen NASA's space programs and the commercialization of technology.

## Galileo gives NASA problems

By Joshua Mussaf  
CASA Editor

NASA has failed in its final attempt to open the main antenna on the Galileo spacecraft, which now will have to use a small antenna to trickle pictures and data from Jupiter.

Engineers made Galileo spin

faster, but the maneuver failed to open its main antenna, a problem that will hamper the spacecraft's \$1.4 billion mission.

NASA gave up any real hope of freeing the antenna in January after thumping the stuck antenna dish 13,320 times with motors that were designed to open the device.

Galileo now must depend on a much smaller antenna dish to trans-

mit data from Jupiter during 1995-97. NASA has said it still expects to accomplish 70 percent of the mission's scientific goals, although Galileo will return only 2,000 to 4,000 pictures instead of the planned 50,000.

Galileo's spin rate was increased last week partly as a test for July 1995, when the spacecraft will deploy a 760-pound probe. The probe must spin fast enough to stay stable as it completes its own journey to Jupiter.

The probe will parachute into Jupiter's atmosphere, making measurements until it is crushed by intense pressure. The spacecraft will spend two years studying Jupiter and its moons.

Galileo fired its thrusters briefly last Tuesday to target it for its flight past asteroid Ida on August 28. It flew past asteroid Gaspra in 1991, becoming the first spacecraft to encounter one of the rocky leftovers of the solar system's formation.

Galileo was released from the Space Shuttle Atlantis in October 1989 and launched on its looping six-year voyage to Jupiter. The Galileo orbiter and probe will reach the solar system's largest planet in December 1995, five months after they separate.

## The edges of science... Can we shine some light on dark matter?

By Brian Gamage  
Space Technology Editor

Since the earliest days of human pondering, one of the most pressing questions has been "How did the universe begin?" Over the centuries, people have come up with many different scenarios for the birth of the universe, but today the Big Bang Theory is widely accepted among the scientific community.

Scientists and theorists have extended the theory to include the end of the universe. The way the universe ends is related to the geometry of spacetime. If the universe is going to expand forever, then that would correspond to an open universe. If the universe is to expand, run out of momentum and then collapse in on itself, which is called the Big Crunch, then that would correspond to a closed universe.

The closed universe would require a certain amount of mass to be present in order to slow the current expansion down to a critical level. Scientists are unable to determine the curvature of spacetime because it would require precise measurements over billions of light-years.

Using Newton's laws and Einstein's equations of relativity, scientists can observe the movements of objects in the sky and calculate their mass. By adding up all of the mass calculated in this way, an idea of how much matter is in the universe can be determined.

By this examination of the motions of stars and other

stellar objects within nearby galaxies, scientists have determined that there must be a lot more matter in the area than is observed in telescopes. Theorists have postulated that there must exist a multitude of "dark matter" in order for there to be enough mass to halt the universe's expansion.

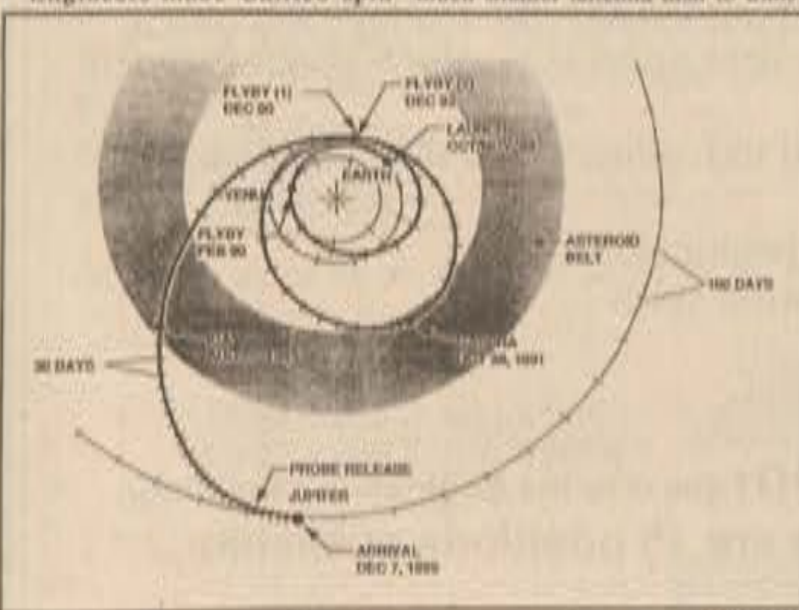
The dark matter would have to be some new and strange kind of matter very different from the normal electrons, neutrons and protons that compose this paper and the stars around us. Another requirement of this dark matter is that it can not exist anywhere near the ordinary matter clumps, also known as galaxies, or else scientists would have measured its gravitational effects on their movements.

What exactly this dark matter is, and where or how it is hiding from us, is one of the deepest mysteries scientists today are trying to solve.

Next week I will highlight the physical and theoretical consequences of dark matter and how recent advancements in cosmological observation technology will help to confirm or deny the Big Bang and Big Crunch theories.

The information contained in this article was obtained from the following sources, which can be found in the Jack R. Hunt Memorial Library.

The Shadows of Creation, Dark Matter and the Structure of the Universe, by Michael Riordan and David N. Schramm, W.H. Freeman and Co., New York, 1991.



NASA graphic

Galileo, after completing its seven-year journey, will send a probe into the Jovian atmosphere.



Space Commentary:

The U.S. must find cheaper way into space

By Nicholas Simatos  
Special To The Avion

The new Clinton Administration has a golden opportunity to do something for America that would not only be economically beneficial and spectacular but also fiscally responsible. The U.S. must have an affordable space transportation capability for both national security and economic reasons.

For over 30 years the high cost of travel from Earth to low Earth orbit (LEO) has been largely responsible for preventing the U.S. from obtaining all the security and economic benefits that could and should have been realized as a result of our ability to access space.

Travel by space shuttle costs about \$350 million per flight and about \$6,000 to \$9,000 dollars per pound. Travel by modified ICBMs, also called expendable launch vehicles (ELVs), costs between \$50 million to \$100 million per flight, and \$5,000 to \$6,000 per pound to LEO. At these prices, almost all space activities have had to be government funded in whole or in part.

Access to space shouldn't be so expensive. Aerospace engineers have argued for several years that technological progress now makes it possible to provide access to space for well under \$500 per pound, or \$1 million per flight. Some argue that it can be done for under \$100 per pound.

Potential Benefits

If cost could be reduced, space could be exploited for profit-making ventures such as tourism. National security would benefit from more extensive and far less costly communications, surveillance, missile defense and other space-based capabilities. The world's environment could benefit from giving us a global perspective of our home planet, how forces shape and affect the environment and how these changes will affect the entire Earth system.

In addition, we could use scientific data collected from satellites to help us better manage the Earth's finite and vital resources. Services such as global positioning, weather predictions, emergency rescue, mapping, navigation, etc. would be dramatically improved. And, "cutting edge" research could be expanded for the benefit of all mankind.

What's The Problem?

Why is travel into space still so costly? How did these high costs come about? And, why is less expensive travel not yet available?

The answer to these questions is only partly technological. While arguments have raged for years, the technical problems that existed with earlier attempts to design reusable vertical takeoff and landing single stage to orbit (VTOLEO) vehicles can now be resolved. The major and still prevalent reason for lack of NASA or DOD interest in developing safe and inexpensive transports of the SSTO variety can be traced to the inherent resistance to change found in most federal bureaucracies. Getting space travel costs in line with air, land and sea travel costs require the U.S. to adopt a new approach to space launched systems. We must design and build a whole new family of transports.

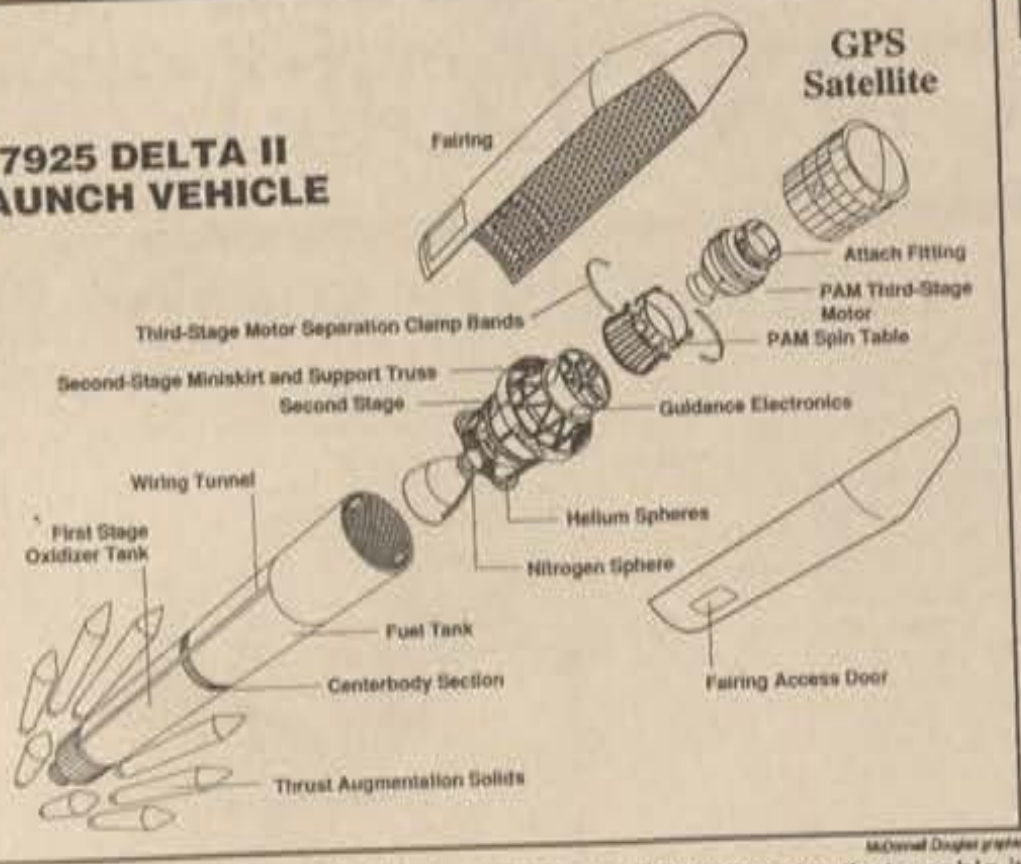
The main problem with the shuttles and ELVs is that they were derived by modifying military ICBM rockets. Thirty years ago both technological and cold war reasons demanded doing this. These reasons no longer exist.

The four shuttle vehicles now require the services of over 20,000 people for each launching. ELVs require 4,500 people. This compares with about 120 people per commercial aircraft in the U.S. and about 400 people for the most sophisticated SR-71 Blackbird.

The cost savings in SSTO technology is largely due to a function of three areas. One is safety, two is a

see Commentary, on page B8

7925 DELTA II LAUNCH VEHICLE



The 7925 Delta II Launch Vehicle is composed of many stages that enable it to deliver payloads to low Earth orbit. The payload comprises a small part of the vehicle and sits in the rounded tip of the fairing section.

Air Force plans to launch Delta rocket this week

By Brian Gamage  
Space Technology Editor

After Thursday night there will hopefully be one more instrument orbiting Earth that could help people determine their exact location and direction of travel.

A NAVSTAR Global Positioning System (GPS) satellite will be launched aboard a Delta II launch vehicle from Cape Canaveral Air Force Station on Thursday March 18th at 10:55 p.m. The launch will originate from Complex 17A with a window that extends until 11:22 p.m.

This will be the 19th Block II satellite to be entered into earth orbit and the 23rd operational satellite in a series of 24 Delta II/NAVSTAR missions scheduled from Cape Canaveral Air Force Station.

NAVSTAR GPS is a space-based radio navigation system designed to provide users worldwide with three-dimensional position and velocity information. When fully operational, the constellation of 24 satellites, in six orbital planes will constitute the space portion of the system. Current users include the airlines and the military, with probable expansion to civilian travelers.

Voyagers continue to race out of solar system

By Arie Moller  
Opinion Editor

In the later 1970s the National Aeronautics and Space Administration (NASA) launched the Voyager probes on a mission to explore our solar system.

Both Voyager I and II were designed to explore the solar system and relay information about our planetary neighbors, Jupiter and Saturn.

The goal was to relay information on the planets and their moons. Voyager was designed to take advantage of an alignment of planets, namely Jupiter, Saturn, Neptune and Uranus, that occurs approximately every 175 years.

By using a gravity assist trajectory facilitated by the alignment of planets, NASA scientists hoped to reach the gas giants.

Over 10,000 trajectories were

studied to find one that would allow a fly by of Jupiter's moon Io and also Saturn's moon Titan. Voyager I was programmed with a trajectory that would pass very close to Saturn and Jupiter.

The price to pay for such a close pass was that the probe had to spin out of the path of the rest of the planets.

Voyager II was designed to pass by Saturn and Jupiter, but at a safer distance. The trajectory also allowed for the craft to continue on to Neptune and Uranus even though the later planets were not part of the original mission.

On August 20, 1977 Voyager II was launched from the Cape. Voyager I was launched on September 5, 1972 also from the Cape.

The reason behind the reversed launch order was that Voyager I was on a faster trajectory to the planets than Voyager II and would arrive before Voyager II. Voyager I arrived

at Jupiter on March 5, 1979 flying within 128,000 miles of the cloud surface.

Voyager II arrived on July 9, 1979. The Voyagers discovered the secret of Jupiter's Red Spot. The Red spot was found to be a large storm permanently rotating counter-clockwise on the surface.

It was discovered that Io had active volcanoes. It was the first time an extraterrestrial active volcano was detected. Two additional moons were found, Adrastea and Metis.

On November 12, 1980 the probe Voyager I passed within 40,000 miles of Saturn. Voyager II on

August 25, 1981 passing within 41,000 miles.

Surprising to scientists was that the diffuse regular rings of Saturn as observed from Earth are jagged when viewed close.

The rings were observed to have spurs and dips where originally thought smooth.

The winds on the surface of Saturn were found to blow at speeds reaching 1,100 miles per hour. The temperature was found to be -179 degrees Celsius.

The total cost of the Voyager project was \$865 million. The Voyagers are expected to continue transmission for two or three more decades.

By using a gravity assist trajectory...NASA scientists hoped to reach the gas giants.



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- A team player

Applications now available in the Student Success Center, located in MOD1 (next to the Engineering building).  
Deadline for submitting applications is March 26, 1993 at 5:00 p.m. There are 15 positions available.



# McDonnell Douglas sells AV-8B Harrier jets to Spanish navy

McDonnell Douglas Press Release

ST. LOUIS, March 8, 1993 — The Spanish government has authorized the purchase of eight radar-equipped AV-8B Harrier II Plus aircraft for the Spanish navy. The aircraft will be built under an international collaborative agreement between Spain, the United States and Italy.

U.S. Naval Air Systems Command, include a not-to-exceed price of \$257 million for airframes, contractor-furnished equipment, final assembly and ramp operations.

Spain has been a major participant, along with Italy and the United States, in the effort to integrate the radar into the Harrier II and signed the tri-national production memorandum of understanding (MOU) in December 1992. Based on the production MOU, the Italian govern-

ment authorized the purchase of 13 Harrier II Plus aircraft in November 1992, with an option for eight additional aircraft.

Under this Spanish navy procurement, McDonnell Douglas will serve as prime contractor, with Spanish industrial partner Construcciones Aeronauticas, S.A. (CASA) performing final assembly and ramp operations. British Aerospace will continue as principal subcontractor to McDonnell Douglas on the program.

Other Spanish companies will also participate in the international collaborative Harrier II Plus program. INISEL will provide avionics support equipment while CESELSA's participation will focus on aircrew flight simulators.

"This purchase today culminates a truly international, cooperative effort that benefits all partners," said

Pat Finneran, vice president and general manager of the AV-8. "The Harrier II Plus provides an expanded multi-mission capability."

The first AV-8B Harrier II Plus made its inaugural flight on Sept. 22, 1992, one month ahead of contract schedule. Twenty-seven of the radar-equipped aircraft have been ordered for the U.S. Marine Corps.

The Spanish navy will receive the first of its eight aircraft in early 1996. The Spanish navy currently has 11 Harrier II aircraft, designated EAV-8B.

Spain has been active in pursuing a radar upgrade to the Harrier and invested in the development of the Harrier II Plus in 1990 when the radar integration memorandum of understanding was signed between Spain, the United States and Italy. The MOU called for the three countries to join in the effort to integrate

the Hughes APG-65 radar into existing night-attack Harrier II aircraft.

As the Harrier II Plus program matures, future collaborative opportunities will likely evolve regarding additional capability upgrades. These opportunities will enable further participation by U.S., Spanish and Italian industries.

The radar, in conjunction with the aircraft's night-attack systems, increases the pilot's ability to perform assigned missions in periods of darkness and adverse weather. The Harrier II Plus radar also provides enhanced self-defense and pilot situational awareness.

The Harrier II Plus is equipped with an increased-thrust version of the Rolls-Royce Pegasus F402-RR-408 engine, which is found in night-attack Harrier IIs.

The radar-equipped Harriers will meet the Spanish navy's tactical

requirements for a flexible, ship-based, multi-role aircraft.

"We and our partners in Spain take great pride in making this international collaboration a great success," Finneran said. "Together we have developed a cost-effective, new capability for our military forces, and with in-country participation, we will all receive real technological and production benefits."

United States participation in the Harrier II Plus program was made possible by the Nunn Amendment, which provided \$17 million to help fund the U.S. share of the cost. This amendment, which was introduced in 1985 by Sen. Sam Nunn (D-Ga.), chairman of the Senate Armed Services Committee, provides funding for military programs developed with North Atlantic Treaty Organization (NATO) allies.

**The radar, in conjunction with the aircraft's night-attack systems, increases the pilot's ability to perform assigned missions in periods of darkness and adverse weather.**

# Falcon 2000 makes first flight in France

FalconJet Press Release

The new Falcon 2000 business jet made its first flight on March 4, 1993 from the Bordeaux Merignac airport, site of Dassault Aviation's Falcon assembly plant.

The first flight went exactly as planned, reaching an altitude of 25,000 feet and an indicated airspeed of 300 knots. All aircraft systems including the autopilot were tested during the flight and all performed as designed.

Following the hour-long flight, test pilot Jean Pus (pronounced "poosh") hailed the 2000 as "the best new Falcon ever." Pus was assisted by veteran Dassault test pilot Guy Mitau-Maurouard, best known for his lead role in the Rafale fighter program.

Dassault's Falcon 2000 Program Manager, Olivier Villa, said the 2000 would soon be flown to the company's Flight Test Centre in Istres, near Marseille. There it will continue its flight test program leading up to certification in late 1994.

However, the 2000 will interrupt its flight test program to appear at the Paris Air Show and NBAA '93, Villa said.



Photo courtesy of FalconJet Corporation

The Falcon 2000 business jet combines speed and comfort at a reasonable price.

The Falcon 2000 represents a new "medium large" category of business jet extremely efficient and economical to operate, yet with a larger cabin than every other business jet except the Falcon 900 and Gulfstream IV.

Powered by two new advanced-technology CFE738 engines, it is designed primarily for transcontinental missions. With standard equipment, the aircraft will have an NBAA IFR range of 3000 nautical miles with eight passengers at .80

Mach normal cruise speed and an initial cruise altitude of 41,000 ft.

Currently some 50 options for the Falcon 2000 are held by corporate, individual and government customers in a dozen countries.

# AOPA helps win case in Fort Pierce, Florida

AOPA press Release

FREDERICK, MD — A lawsuit brought by nearby residents against Fort Pierce, Florida's St. Lucie County International Airport has been put to rest following intervention by the Aircraft Owners and Pilots Association.

AOPA entered the case of *St. Lucie County v. Town of St. Lucie Village* as a friend-of-the-court to help overturn a potentially precedent-setting lower court ruling establishing the airport as a nuisance, thus hindering airport use and development.

The appeal courts found that airport expansion was a legislative matter for the airport authority to decide, not the courts. "The opinion is favorable to AOPA's position and to general aviation in all respects," commented John S. Yodice, AOPA general counsel.

The appeal outcome was significant, not only because it found St. Lucie County Airport

not to be a nuisance, but because it prohibits interference by local residents to airport improvements already approved through the political process. It also establishes that the possibility of an airport becoming a nuisance in the future does not justify an injunction against airport expansion today.

The original case focused on whether local residents could sue to have the airport legally declared a nuisance to prevent improvements approved by the airport authority. The trial court then declared the airport already a nuisance, stopping airport expansion. The decision was reversed on appeal, and subsequent petitions for rehearing and for hearing before the Florida Supreme Court were all denied.

AOPA represents the general aviation interests of more than 300,000 aircraft owners and pilots nationwide, nearly 20,000 of whom live in Florida. It is the world's largest civil aviation organization.

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# Local band Waterdog makes good

By David Gass  
National News Editor

Waterdog is one of the latest new rock groups to pop up from nowhere. I could tell by just listening to the first song on this album that they will be a successful group in the future.

The group of Waterdog also happens to come from Gainesville, Florida, making them a local sensation.

The band consists of Jeff Beres, who is the lead singer and in charge of bass. Marc Boillet plays the electric guitar and provides vocals as well.

Anthony Diaz plays the drums and supplies his voice as backup singer. Finally, there is Andy Levine, who plays the acoustic guitar and also plays vocal backup in the band.

Waterdog's first album entitled *Waterdog* is totally awesome. As soon as I turned the power on my CD player and pressed the play button, I was listening to some great music with terrific sounds of the drums, guitars and lyrics.

The first track on the album is called "At the Plate." The song is about a young boy who is playing baseball, and the song tells about his fears and dreams while he is at bat. This is a truly inspiring song which has great guitar rhythm and is one of the best songs on this album.

"Foreign Tongues" immediately starts out with an upbeat rhythm. Marc Boillet and Andy Levine do an outstanding job on the guitar to make the listener really get into the song. The drums are also quite good and the song has some good bass.

"Blind Man" is quite a loud song in regards to the electric guitar. The song seems to be shorter than it is because the lead singer goes through the lyrics rather quickly. Other than



A local band from Gainesville, Florida, Waterdog makes a promising debut onto the music scene with their new album entitled *Waterdog*. It is now available in stores.

that, it's a pretty good song, and is worth listening to.

In contrast, "No One Calls You" starts out with a relaxing and quiet sound by the acoustic guitar. It then picks up to become an energetic song. Compared with the other songs on this album, the music and lyrics are just as great, and follow the band's style very well.

"The Letter" has a good beat to it and this particular song tells the story of a man who is in love with a woman and can't stop thinking about her. This is a good song with good lyrics.

"Saturday" has a harmony between the group singing together

rather than just a solo by Jeff Beres. This is a song that has some really good lyrics and harmony.

"Merry-Go-Round" begins with Jeff Beres singing in a low tone while a low acoustic guitar backs him up. Marc Boillet then picks up with the electric guitar and makes this song among the best to listen to on this album.

"Black Picket Fences" is just as great as the other songs on this album. It has some good bass as well as some awesome guitar rhythm. Very good song.

The last track on the album is "Time to go Home." This song has a slow beat and is very relaxing to listen to. It's rather short but it is still a winner.

This album is truly one of the best ones I have ever reviewed, especially considering Waterdog is a local band with little exposure to the music world as yet.

*Waterdog* looks very promising and, in my opinion, is better than most of the other new bands that are out there today.

## Critic's Corner:

# CB4 offers quality comedy at a new low price, guaranteed



Mike McGrath  
Movie Critic

ly no acclaim from anyone until Chris Rock comes up with the idea of forming the gangster rapper band called CB4.

Rock transforms into MC Gusto, while Payne and Deezer D become Dead Mike and Stab Master Arson.

Unfortunately, Rock has the misfortune of stepping on the toes of a drug dealer on his way to fame and fortune. Revenge from the scorned dealer is the problem which the trio has to overcome.

Chris Rock is one of the up-and-coming stars today. In case you didn't know already, he is currently on *Saturday Night Live*. Before appearing on the show, he made a name for himself doing stand-up comedy.

Quite a resume, don't you think? In addition to starring in CB4, he co-wrote the story and the screenplay. He put a lot of work into this movie, and it shows.

CB4 makes fun of just about everything. From sell-your-life-to-the-telephone company 900 numbers to *New Jack City*, nobody is safe.

The movie also has one of the funniest love scenes I've ever seen. Believe it or not, it even beats out the one in *Hot Shots*. This is one you definitely just have to see.

The music even pokes fun of the lyrically explicit chart toppers of today.

I am not going to give the titles of these songs, because of two reasons. I might get censored or even worse, I might actually ruin a good laugh. But I'm sure you get the picture.

The supporting cast is a long list of comedians and rappers. Ice T, Ice Cube, Phil Hartman and Chris Elliott all contribute to the film in different ways.

There are countless others whose names I forget that also pop up from time to time. Although their

screen time is limited, they each make you laugh in some way or another.

There was only one major problem I found with the movie. The ending was rather abrupt. A lot of the people in the theater didn't know the movie was over.

Maybe I just wanted to see more comedy, or maybe the writers were just leaving it open for a sequel. For whatever reason, though, I think a longer ending is necessary.

In all, *CB4* turned out to be one of the funniest comedies I have seen in a long time. I am looking forward to more from Chris Rock.

If you want to see a funny movie, *CB4* is perfect. If you want a not-so-funny comedy, *Loaded Weapon 1* is at the dollar theater.

Not to brag or anything, but I think I saw that coming.

If you don't have the cash for a movie, but do want to laugh, stop by my room and listen to the barking freshman. It won't cost you any money, provided you bring some dog biscuits. Oh yeah, watch your step. He doesn't have the newspaper thing down yet.

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

*This album is truly one of the best ones I have ever reviewed, especially considering (they are) a local band..*

**CB4**

Starring: Chris Rock  
Allen Payne  
Deezer D

Rated: R

Rating: ★★★

Length: 1 hour, 45 minutes

Playing: Volusia Square 8

All of my reviews have one thing in common. I make fun of something. Whether it be my freshman roommate or the movie itself, I usually find some way of ridiculing someone.

This week, *CB4* the movie does all the joking for me. So there is no reason for me to mention anything about my roommate's ability to talk in his sleep or even the few occasions when he barks in the night. No, nothing but one hundred percent movie review this week.

*CB4* stars Chris Rock, Allen Payne, and Deezer D as three up-and-coming legends in the rap music business.

The three are receiving absolute-

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# The show goes on despite weather

BOSTON (AP)—At some city theaters, the show went on, despite the fact that the storm of the century was raging outside and making people unwilling to move from the warmth of their apartments. Actress Sandy Martin, who plays Patsy Cline in a musical production that has been running since January, wasn't about to be stopped by a blizzard, even one that has most people running for shelters.

"We're going to be brave," said the veteran actress, who prepared for her Saturday night performance by getting into a snowball fight with fellow band members outside her hotel. "I think it's fabulous."

The manager of "A Closer Walk With Patsy Cline" offered ticket exchanges to those patrons who wanted to cancel their reservations, and said she was dis-

couraging other people from traveling long distances to get in to see the show.

"It's a state of emergency. I don't want people to kill themselves to come see Patsy Cline," said Marge Kelley, the show's general manager.

But after talking with the hotel staff in Boston, Kelley decided there were plenty of people holed up near the theater district who would probably be looking for something to do after most of the stores, restaurants and cinemas around Boston shut down for the storm.

So, instead of accepting defeat, she offered two-for-one deals to those willing to brave the bitter cold and winds, hoping to get some of the locals in to fill the gaps made by others.

"The hotels are jammed because people can't get out," said Kelley about their current situation. "A lot of the concierges told me people are looking for things to do."

The tickets for the Patsy Cline show sold for thirty dollars apiece. Kelley said she had "a couple of hundred" cancellations for the two shows, but about twenty people attended the first performance.

The managers of the play "Guys and Dolls" also decided to keep their show going through the weather.

"We don't accept cancellations, so we don't have any," said a ticket seller at Boston's Colonial Theater, who declined to give her name. Tickets to that show sold for between thirty-five and sixty dollars.

Martin said the fact that the production went ahead through the inclement weather is just the kind of thing the famous country singer Patsy Cline would have loved.

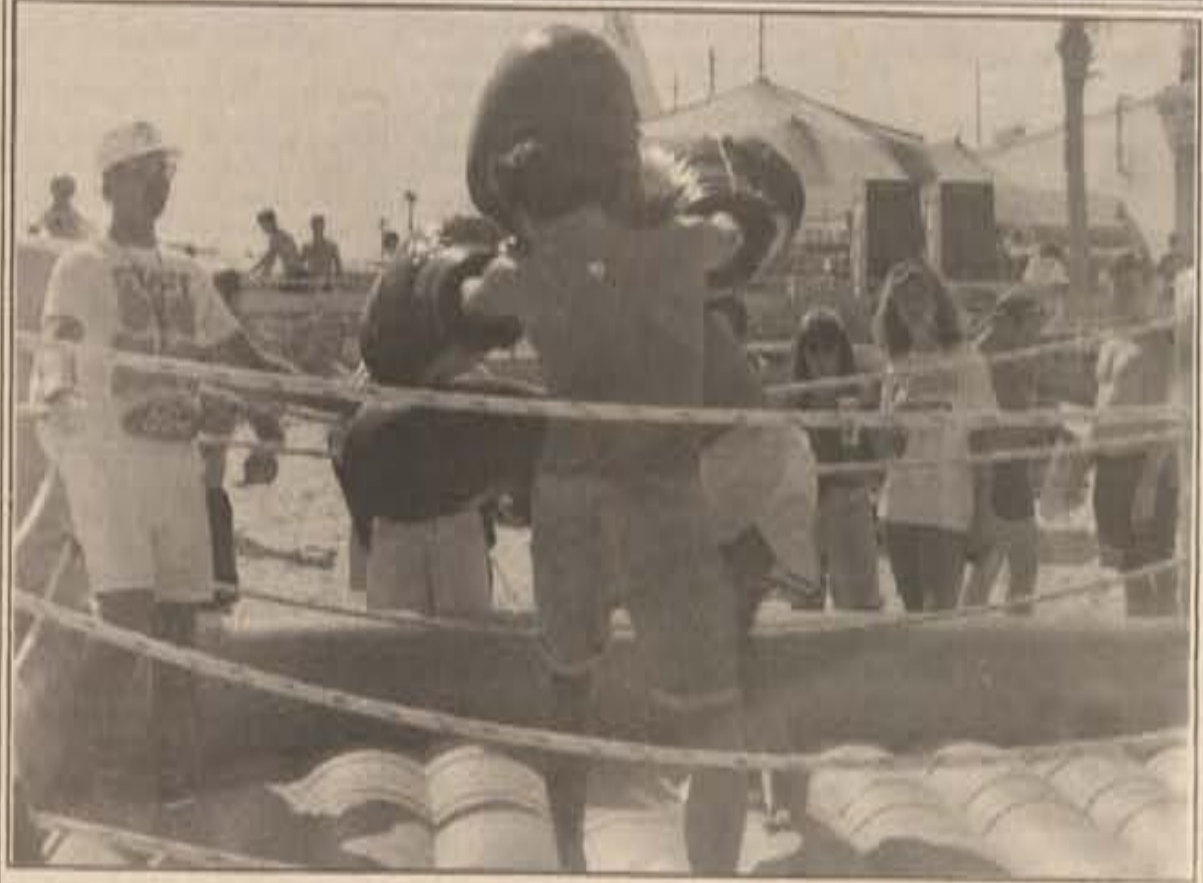
"I think she would have had a ball," Martin said. "She was a party girl. As long as you had a little wine, maybe a little whiskey, she'd be all set."

And what song from the late singer's repertoire would best fit the bill for the evening's show? "Probably 'Crazy,'" Martin said.

**"It's a state of emergency. I don't want people to kill themselves to come see Patsy Cline."**

-Marge Kelly, General Manager

# Spring breakers beating each other on the beach



Thousands of Spring Breakers flooded Daytona, and right behind them came the promoters and, of course, MTV. Parties on the beach featured boxing, bikini contests, and many other fun and exciting events. Featured here is ever-popular big-glove boxing event, currently taking place beachside, by the Main Street pier, so don't miss it.

# Seinfeld's Jason Alexander enjoys his role as Seinfeld's neurotic friend

LOS ANGELES (AP)—Jason Alexander is a walking, talking tropical depression who brings dark clouds, rain and gales of laughter to NBC's *Seinfeld*.

Alexander plays George Costanza, Jerry Seinfeld's angst-ridden best friend on the comedy series. Rarely have hard luck and knuckle-headed stubbornness produced so much fun.

In its Thursday night spot behind *Cheers*, where the show made its debut in May 1990, *Seinfeld* has shot up in the ratings.

The series was originally built around Seinfeld's stand-up comedy, and the characters were merely to illustrate the stories he told. But very quickly the characters took on a life of their own, and Seinfeld's stand-up appearances are there only to remind people he is a comedian.

"I thought in the beginning George would be just kind of Woody Allenish," says Alexander, who won a Tony as best actor in a musical for "Jerome Robbins' Broadway" in 1989.

"That was the handle I was used to get a grasp on the character. George was seen as Jerry's best friend, based on a couple of people. He was just a voice. I also think George was less neurotic in the beginning.

But as you go along you see the different paths down which you can take a character. I've looked at some of the early episodes and see that George was much sweeter. He's become more mercurial and neurotic. I myself don't know how he'll react. We look for the funniest possibilities."

George began changing when Ms.

Louis-Dreyfus joined the cast as Elaine Benes after the pilot.

"Elaine became one of the guys," Alexander says. "She was more straightforward in her eccentricity. George then became the alter ego of Larry David, who created the show with Jerry. Larry poured himself into George and that's how the neuroses developed."

Alexander has spent much of his career playing schmoos. He was Richard Gere's sleazy lawyer in *Pretty Woman* and in a long-running Western Union commercial he's the hapless kid wiring home for money after he's ticketed by the Southern cop in the mirror sunglasses.

"America discovered me as a real jerk when I attempted to rape Julia Roberts in *Pretty Woman*" he says. "Women across America decided I

wasn't fit to live."

Currently, during time he can get away from *Seinfeld*, Alexander's playing the next-door neighbor in a feature film version of "The Coneheads" from *Saturday Night Live*. The movie, which stars Dan Aykroyd and Jane Curtin in their original roles as the space aliens, hopes to catch some of the magic that struck *Wayne's World*.

"I didn't leave the show for *Seinfeld*," he says. "I couldn't do it any more. More than a year of my life had been devoted to that show, between rehearsals and performances. After I left it went on for another year, but I was shocked when it closed. I thought it should run forever."

"As a little boy I knew I wanted to be an actor," he says. "I did a lot of community and children's theater. I

started working professionally when I was 16. I got \$400 for three days' work. I never finished college. I worked every summer doing commercials and bit parts in movies.

"The summer before my senior year I got a good part in a horror film called *The Burning*. When I finished it was too late to enroll in school, I moved to New York, got a job in a casting office, then I got a part in a Broadway show and I never went back to school."

While doing his second Broadway show, "The Rink," he was seen by Norman Lear and cast in the television series *E.R.* The 1984-85 show, set in a hospital emergency room, starred Elliott Gould as a surgeon.

"I got a call to be a guest star," he recalls. "They flew me out to Los Angeles, the first time I'd been

to L.A. It was to be just one appearance, but I wound up doing nine shows. I was 24, but I was already losing my hair, and I played the snarling hospital administrator who was the butt of everyone's jokes. The show's still running on the Lifetime cable channel."

In 1987, Alexander was in another short-lived series, *Everything Is Relative*. It's been referred to as the worst show on television, he says, but he thinks it was a good show that was so savaged by the critics that CBS dumped it.

"It was funny, creative television," he says. "Look, no one expected *Seinfeld* to do what it's doing. It didn't work in the testing.

To its credit NBC has owned up to the fact that it was a show they didn't understand but left to its own devices."

## HEALTH AND ACCIDENT INSURANCE PROGRAM For the Students of EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Embry-Riddle Aeronautical University is pleased to make a Medical Insurance Program available again this year to all students.

The insurance coverage for the 1993/94 school year will continue to be underwritten by The MEGA Life and Health Insurance Company and serviced by the Student Insurance Division (formerly Parker & Parker Consultants, Inc.). The policy is based on the 1992/93 plan benefits with no modifications.

BEGINNING FALL PRE-REGISTRATION, STUDENTS WILL HAVE THE FOLLOWING OPTIONS IN PURCHASING THE STUDENT INSURANCE COVERAGE. PLEASE KEEP IN MIND, THE INSURANCE PREMIUM WILL NO LONGER BE ADDED TO YOUR STUDENT ACCOUNT.

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2. Students who purchase the coverage on or prior to the last day of add/drop will have coverage effective as of the first day of the semester for which the premium is paid. Students who enroll after the last day of add/drop will have coverage effective on the date application and full premiums are received by either the Student Insurance Division or Embry-Riddle Health Services.
3. Students may also send their applications and premiums directly to the company at anytime. Postage paid return envelopes will be available at all registrations and at Health Services.
4. Students may purchase the coverage on an Annual or by Semester basis. Those who purchase the Annual coverage will be insured for the full year even if they do not register or withdraw mid-term, as long as they attended classes for the first 31 days from the date they purchased the coverage.
5. The insurance company will automatically bill those students who have purchased the coverage by Semester. Those students will be instructed to send their premiums directly to the company. HOWEVER, IT IS THE STUDENT'S RESPONSIBILITY FOR TIMELY RENEWAL PAYMENTS. Coverage may also be renewed at registration.

	Annual	Fall	Spring	Summer A	Summer B	Summer C
	8/23/93-	8/23/93-	1/5/94-	5/12/94-	6/23/94-	5/12/94-
	8/23/94	1/5/94	5/12/94	6/23/94	8/23/94	8/23/94
Student	\$532	\$175	\$175	\$91	\$91	\$182
Student & Spouse	\$1904	\$642	\$642	\$310	\$310	\$620
Student & Child(ren)	\$2076	\$701	\$701	\$337	\$337	\$674
Student, Spouse & Child(ren)	\$3448	\$1168	\$1168	\$556	\$556	\$1112

If you have any questions, a student insurance representative will be available at registration.

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ΑΞΔ

By Becky Kenick  
Pledge Educator

We would like to thank our Pledge Members for the awesome job that they did on our incredible backboard.

I think it beats any other backboard in the Greek organization.

ΣΦΔ

By Bill McDermott  
Historian

Greetings to all brothers of Sigma Phi Delta and our illustrious leader, Brad Quintal. Turning to sports, TEAM SPUD remains 1 and 3, meaning that we do not have a softball game again this week. 1 and 3 is not so great, guys. Let's have a practice this weekend so we don't look too unprepared for our next game. If we can win our next game, we'll be 2 and 4. Hopefully we can make the playoffs. Let's not make fools of ourselves if we do.

Here is another notice to our pledges, Joel and Steve. You two gentlemen better start to take a considerable interest in pledging. We're now more than halfway through the semester, so you two had better make it in your best interests to shape up. Pledging is a very, very serious matter. It is not something to be taken lightly.

I'd like to take the time now to

ΣΠ

By Tore Gudroed Markussen  
Humor

If you happened to drive by 615 Palmetto Avenue this past weekend and saw several sheep and cows, you were not hallucinating. Last Saturday marked the kickoff of Sigma Pi's Biannual "Roll in the Hay" party. We hold this farm-style event biannually to keep the cops and the neighbors off our backs! On behalf of my Fraternity, I would like to extend our most gracious thanks to the lovely ladies of Alpha Xi Delta for making the event as excellent and exciting as it was. A chronological list of events that lead up to the party were as follows:

1) At 0600, a wake up call was initiated by Sgt. Probe to notify our "younger elite" sniveler's to rise and shine and get organized for the car wash that was to be held.

2) At 0715, already behind schedule, the "younger elite" arrived and departed hastily from the house after being scorned by Brother Eric. "I don't know where the stupid buckets and sponges are at and what the hell are you doing in my room anyway?"

3) At 0740, after arriving at the Texaco, the P-men wash their first car of the day, which just so happens to be a '75 primer grey mustang with rusted out quarter panels. Eyewitnesses said, "It smoked so much...even Brother Linus would have left the room!"

4) At 0845, being the great leader as he is, Delta Sasquatch woke-up and got the rest of the brothers in the house up for the carwash. He did this by threatening to stuff Carter's shoes in their lazy faces if they did not get out of bed.

5) At 0900, the carwash was in

Congratulations to Brenda Fugate who was accepted to Omicron Delta Kappa. We are all anticipating our formal next month at the Marriot that Shelly has been planning. Go Girl!

We all want to welcome Jill back this week. We missed you. This weekend is initiation for our Pledges and we want to wish them luck.

welcome the twenty brothers down for Spring Break from Illinois. It's pretty cool to have more than 12 brothers around the house. I hope you guys find our hospitality to your liking. Have a safe trip home.

Seeing as the bikers have now left, Spring Break has officially begun. Our break is actually a good three or four weeks away, but most of the other colleges around the country are having their break as we speak. All I can say to the brothers is to try and fight the temptation. Our Spring Break is not that far off. Besides, there's always the weekends.

As I close this week I'd like to remind the pledges again of the gravity of the situation they are in. Since there are visiting brothers staying at the house, it would be a good idea to be there as often as possible. There are now 32 brothers at the house instead of 12. If I were you, I would take that fact under serious consideration this week.

full effect and the party preparation committee (Greg, Bourke, and myself) are still sleeping.

6) At 1015, after wishing our previous night's female guests goodbye, Greg and I leave for the house. Meanwhile...at the carwash, Petit consults the rest of the brothers on the proper way to wash an automobile's radio antenna.

7) At 1100, the Fraternity house transformation into a farm like atmosphere is well under way and the CO2 system is checked out of course, by Bourke. "The keg of root-beer is pouring good when there's hardly any foam!"

8) At 1130, Mike E. and Ghost rider solicit some girls on Spring Break at the beach and give them directions to the house.

9) At 1200, the house decorating is finished and Greg, Jeff, and myself are sipping Pina Colada's by the pool side. Greg mutters, "Gee...I wonder what the rest of the guy's are doing now? Oh...and Gordo, can you pass the Doritoses."

10) At 1230, Kline asks Jack, "Have you eaten lunch yet," and Jack emphatically says no. They both agree to get some grub and return quickly. Amazingly, they get lost driving back from K-burger. However, Jack utilizes his fine piloting skills and manages to Dead Reckon back to the house.

11) At 1300, a few dollars short of the monetary goal, Delta Stealth volunteers try to find out where Scott and Jack are at and leaves. (He finds Jack and Scott at the house and stays.)

12) At 1400, due to attrition, the carwash is dissolved and everyone leaves for the party where it is already in full swing.

MAA

By Shane Jenson  
President

Math awareness week will be held March 22-26. The exciting sequence of activities is as follows:

Monday, March 22: From 8 a.m. to 5 p.m., in the Student Center conference room, a math contest will be held. For the cost of only \$0.25, and a successful answer to a math question, based only on the courses you have completed, you will be entered in a math-bee held on Thursday at 3:30 p.m. at the same place. Math poems and cartoons will also be accepted for a contest worth \$20 for first place and \$10 for second.

Tuesday, 23: A presentation on the Coriolis effect and WW II will be given in room A-103 at 6:00 p.m.

SAA

By Krissy Kopecky  
Member

Just a quick article this time, mainly to fill in those of you who may have missed the last meeting or two.

Shelly Rossell is now the chair of the social committee. Congratulations Shelly! There has been a rumor of an upcoming party, keep an eye out for any more news.

By Shane Jenson. The discussion will center on the German V-2 rocket.

Wednesday, 24: Same as Monday's events.

Thursday, 25: Same as Monday until 3:30 p.m. At that time, the math Stud(ess) of ERAU will begin the competition to take home a minimum \$25 pot and free membership. Cartoons and poems will also be judged.

Friday, 26: Professor Jan Collins will give a presentation in the wind tunnel (Engineering Building) from noon until 1 p.m. A scaled bridge will be placed in the wind tunnel, and the Tacoma Narrows bridge disaster will be simulated. Professor Collins will then show where engineering approximations were unwarranted.

It looks like the finals kits will be made around the first week or second week in April. Get in touch with Michael Alas or Mike Nystrom if you want to help out or if you have any helpful suggestions. They are the co-chairs of the Solo/Final Kits committee.

Just a reminder, the meetings are Tuesdays at 5:30 p.m. and the Executive Board meetings are Thursdays at 5:30 p.m. in Spruance Hall conference room 206C.

ERFSEDS

By Keith Sterner  
Public Relations

For those of you who are slacking, SpaceWeek was last week. This year the event was co-sponsored by ERFSEDS and ERAS. Thanks go to those of you who logged the time to make this event better.

We would like to thank Capt. Kaye Downing for the marvelous speech she gave on Monday, her lecture kicked off Women in Aviation Week. Mayor Lawrence Kelly was also present to welcome Capt. Downing to Embry-Riddle and also give support for the week.

This past weekend ERFSEDS sponsored a car wash at the Texaco on the corner of Beville and Ridgewood. This brought in more money, which we'll be needing for

future projects. "Thanks to those who helped out, it didn't go unnoticed!"

If you plan to be a part of the Ground Station for SEDSat 1, beginning this Fall, you must get with Cindy or Craig - SOON! We will be working on getting our licenses this semester, for those who are interested.

Are you a leader? Do you think you have what it takes to keep a newly founded club in action, and keep the members interest up? Well, if you think you can take on this challenge, start preparing yourself. There will be officer positions available at the end of this term, due to graduation, and the vacancies will need to be filled. Talk to one of the officers after the meeting on March 16, and let us know if you are interested.

ΔΧ

By Tom Mistretta  
Public Relations

Greetings and salutations to all the Brothers. Let us start this weeks article off by addressing a serious problem that one of our newly initiated brothers has acquired. This problem has been accumulating over years of deprivation of human reproductive acts, with a female partner. Yes, this brother is Beau. After numerous attempts and near misses, he has been in a dry spell since the early days of August. I'm asking you, the brothers, to join your forces and your money to help poor Beau out of his little rut. And for your information, Beau, I am not a Richard Block (figure it out for yourself). You just could not get it with a fist full of fifties in the Sun Bank.

Onto other news. Fund raising went really well. Thanks to all the brothers who worked really hard for the benefit of the house. Ron and Delphin, your one night you were forced to work was deeply appreciated. To all Brothers, an outstanding

job for all your efforts. You all know the true meaning of brotherhood.

Mike, if your dog ever bites another brother, we are going to have a pinata party and your tax-mainian, red-eyed, smelly, four-legged, flea bag will be the guest of honor.

Now for a little officer bashing. Hey Doug, your Mom is so dumb it takes her 90 minutes to watch "60 minutes." Bill, your Mom is so fat when she broke her leg gravy came out. Bob, the difference between your Mom and a refrigerator is that the refrigerator doesn't fart when you take the meat out. Doyle, your Mom is so ugly, when she fell off the ugly tree, she hit every branch on the way down. Dan, your Mom is so....(this ones too easy). Tom, your Mom is the tastiest mother is the whole wide world.

Now for our pledges. Don, FUM-BLE. When someone on our team drops the ball, we should all jump on the ball and pick it up, no excuses. Pledges you have exactly four weeks to put your act in gear or else.

Beau, you are a Pervert!

ΘΦΑ

By Kelly Watkins  
Public Relations

Yes, I am back. Many thanks to our delightful little president for filling in for me last week. When I was short on time and energy, she risked the death of a sleekly painted fingernail for the good of the sorority so that we may have an article. Bless her! But you know, Eric, we are in college now, and sometimes we do have to dust away those nasty ole cobwebs and USE our brains for something besides remembering where happy hour will be that night. But if there is something you don't understand in the newspaper, let me know, and I will try to draw some helpful pictures for you. Okay?

Did everyone have a good time at Delta Chi last Friday? Pledges, did you behave yourselves? Did the Bus stay nice and (cough) "DRY?" (Kiersten and I still have fond mem-

ories of Rutger and his snarling teeth, we will certainly never forget him!)

Women in Aviation Week is here. Participate all you can, and learn how you can get around the stereotypes of females in a male dominating career field. We are honored to have Susan Fasano here to speak. She is a good example that Theta Phi's can "kick butt!" no matter where they are or what they are doing!

Also, Ginny is coming! Be prepared. Let's show her how much we miss her, o.k.?

So, pledges, how is Award's Night coming? We're all looking forward to it. But, did anyone explain what "happens" if we don't have a good time? hhhmmmm...well, don't worry too much. I'm sure you all have plenty of bubble bath, right? And, be sure to get all of your stuff done- ASAP!

Clubs Policy

- All articles must be type-written, double spaced or on disk format (unformatted in Word Star or Microsoft Word).
- Deadline for submission of all club material is **Wednesday at 5 p.m.**, one week prior to publication.
- Photos may be submitted with club articles.
- All submitted material becomes property of the Avion with the exception of disks.
- The Avion reserves the right to edit all submitted copies.
- For more information stop by or call the Avion office at (904) 226-8049.

AHP

By Jason Piper  
Historian

Well brothers, at the last minute I find myself writing to you about this weeks activities. It has been an ordinary average week.

The volunteer project with the church is over now. A great service has been done for the homeless of the Daytona Beach area. A big thank you to Rich for running the program. We will continue with the same type of volunteer work next Fall.

The big storm didn't affect our party. On the contrary it got us out of playing softball so everything went great. The only bad thing was

that we didn't get to have the barbecue. Although I got an earful for not catering the indoor party. Sorry guys, I thought it was cancelled.

At press time the gigantic waterski party was still being planned for this weekend. It should be a great photo opportunity, everyone biting the water at 40 miles an hour. Hopefully no one will loose any teeth to the water, unlike myself with a fake front tooth.

Elections are being held for this summer and all of next year. So don't miss this next meeting on Thursday. The course of AHP over the next year is at stake. I'm sure anyone who takes a position will do fine.

Aerospace Society

By Joshua Mussal  
Historian

There will be no general meeting tonight. Instead all members are encouraged to meet in the UC at 7:45 p.m. for a speech by Mr. Simatos who will be speaking about astronaut training. Unfortunately, astronaut Eileen Collins was forced to cancel due to prior commitments for the upcoming shuttle flight.

Last week's car wash was can-

celed due to bad weather. It has been rescheduled for March 28.

And now a few words from our former SpaceWeek committee chairperson, Matt DeVitto...I would just like to thank everyone from the Aerospace Society and ERFSEDS who helped out with SpaceWeek. All of our events turned out alright. A special thank you goes to Dr. Fleck from the PS Department for his astronomy presentation and to WERU for doing announcements for us on the Flight Deck.

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Calvin and Hobbes

by Bill Waterson

OR YOU'VE ALL READ THE CHAPTER, SO LET'S REVIEW.

CALVIN: WHERE WAS THE BYZANTINE EMPIRE?

I'LL TAKE "OUTER PLANETS" FOR \$100.

MOM! WAKE UP! COME QUICK!

WHAT'S WRONG, WHAT'S THE MATTER?

DO YOU THINK LOVE IS NOTHING BUT A BIOCHEMICAL REACTION DESIGNED TO MAKE SURE OUR GENES GET PASSED ON?

WHATEVER IT IS, IT'S ALL THAT'S KEEPING ME FROM STRANGLING YOU RIGHT NOW.

MOM'S MIDNIGHT REASSURANCES ARE NEVER VERY REASSURING.

WHEN YOU'RE A KID, YOU DON'T HAVE MUCH VARIETY OF EXPERIENCE.

YOU LIVE WITH YOUR PARENTS AND THAT'S ALL YOU KNOW. YOU GROW UP THINKING, "WHATEVER THEY DO IS 'NORMAL'."

AHH, WHAT A DRY! UP AT 6:00, A 10-MILE RUN IN THE SLEET, AND NOW A BIG BOWL OF PLAIN OATMEAL! HOW I LOVE THE CRAZY WEDDING OF WEEKENDS!

WELL, MAYBE "NORMAL" IS TOO STRONG A WORD.

I THINK WE'D KNOW "NORMAL" IF WE SAW IT.

EXERCISE IS A LOT MORE GRATIFYING IF YOU COUNT WHAT IT FEELS LIKE.

DOF.

RRRGGH... 5,200!

I DON'T WANT TO GET UP. I DON'T WANT TO GET DRESSED. I DON'T WANT TO WAIT FOR THE BUS.

I DON'T WANT TO GO TO SCHOOL. I DON'T WANT TO LISTEN TO THE TEACHER.

I DON'T WANT TO STUDY. I DON'T WANT ANY TESTS. I DON'T WANT ANY HOMEWORK.

HOW WAS YOUR DAY?

IT PULLED A PERFECT "NO HITTER."

YOU KNOW, THERE MUST BE THOUSANDS OF ANIMAL SPECIES, AND OF ALL OF THEM, ONLY HUMAN'S WEAR CLOTHES.

ISN'T THAT WEIRD? I WONDER WHY OTHER ANIMALS DON'T WEAR CLOTHES?

IF OUR NAKED PINK BUTTS SHOWED, WE PROBABLY WOULD.

OUR BUTTS ARE JUST FINE!

Far Side

by Gary Larson

Several times more dangerous than his African cousin, the junkyard rhino offers the ultimate in property protection.

"Well, the defendant and I had made this deal in which we both prospered... One of those 'you-scratch-me-behind-my-ears-I'll-scratch-you-behind-yours' arrangements."

"And then whom! This thing just came right out of left field."

"It's time we face reality, my friends... We're not exactly rocket scientists."

Dave

by David Miller

TWENTYSOMETHING REVELATION #4

IT'S QUITE POSSIBLE THAT I MAY NEVER BE USED FOR MY MONEY!

SAYS HERE THAT AMERICAN CAR COMPANIES ARE MAKING ANOTHER COMEBACK!

WHAT? I WAS JUST AT MY DEALERSHIP! THEY REPLACED A...

RELAX, DAVE! - IT'S A COMEBACK - NOT A RECALL!

OH.

IT'S FUNNY HOW OVER THE YEARS, AS VIDEO GAMES HAVE GOTTEN SMALLER, SO HAS MY ATTENTION SPAN!

Bound and Gagged

by Dana Summers

NO FISHING MERCURY IN WATER

POOCH CLIPS

SNIP! SNIP! CLIP!

CLIP! SNIP! CLIP!

CLIP! SNIP! SNIP! CUT!

DEATH SCENE TAKE 3

GASP! CHOKES! GLOG! ACK!

GASP! CHOKES! GLOG! ACK!



→ Autos for sale

Buying a vehicle? Buy from a Riddle showroom. New and used cars and trucks/programs cars. Contact Mark F. Moreno at Gary Yooner's Ford executive car sales, 947-4455. Bring this ad!!!

1984 Ford Escort - rebuilt motor, reconditioned head, by You's machine shop. New clutch, pressure plate, throw out bearing, belts and hoses. Vacuum hoses need to be hooked up. Asking \$950, call Laz at 322-0496 or leave message.

1984 Toyota Celica GT, 2-door, automatic, 63k miles, red, runs great, little rust. \$1200 O.B.O. Ives, Charlie 767-7378

1977 Oldsmobile Cutlass Salon. Runs great and is very easy to work on. \$1200 O.B.O. Contact Erik 226-7272 or Box 1081

1985 Ply. Horizon 4-dr. AM/FM/cass, a/c, 5-speed. New tires and battery, body and engine in good condition. Best offer. Call 673-7561 or drop a note in #8647.

'81 Toyota Starlet 5-speed, 2-door. Runs great and gets great mileage. Asking \$700. Call Nick 322-0082

→ Roommates

Female roommates needed. Starting Fall '93. Look for apartment together. Call Theresa, 238-0919.

Female or male to share beautiful 3 bedroom house 10 min. from ERAU. Includes washer, dryer, a/c, cable and dishwasher. Very nice place in nice, quiet neighborhood. Must be clean. \$350/month, utilities incl. expt. phone. Available April 30th. Call Dennis 788-8276.

→ Rentals

For sale or rent - 2 bed / 2 bath townhouse. Two levels, full appliances. Pool, cable tv, water and trash removal all included. Located 2.5 miles from ERAU. Call 788-4343

Large 3-bedroom home. All newly remodeled. All new carpet, paint, kitchen and deck. Country setting in a cul-de-sac. Furniture and utilities are available. \$700/month, call 676-9100.

Rooms for rent in summer A and B. You're leaving April 30th and my roommate is leaving soon after. \$250 or \$225 (depending on master bedroom) a month + utilities. Please now. Call Pete at 248-2962.

\$220 a month, no utilities to pay, no lease. For non-smoker sober gentlemen, good references. Clean, private room, many parking lots, lighted. Quiet beautiful house. For staff members too. Tel evenings 258-6901.

→ Misc. for sale

DOWNTOWN USED FURNITURE 9000 sq. ft. showroom. Tues.-Sat. 10-5:30 406 N. Beach St. Daytona 239-9884. Buy and Sell.

12 speed mass bike, 4 years old. Very good - \$50. Portable steam bath - \$15. 7 piece yellow/white patio furniture - \$100. Sofa - \$20. Evenings 258-5901.

Camera for sale, Cannon EOS Rebel, 80-200 mm lens, case and flash. \$395 call 756-7965 ask for Gary.

For sale: 1 couch, 1 kitchen table, 1 dresser, 1 desk, contact me at Box 8878 or 253-7988, real cheap.

Golf Clubs. Full set of Wilson K28 clubs with bag and pull cart. \$99.95, call 761-9384.

1993 Bike Week memorabilia. Call for more info. 788-0839.

Selling full set of K28 Wilson golf clubs. I've even got a 2 iron. Must sell soon, great starter set, great condition. Asking for \$73. Call Marf 760-8866.

For sale: weight set with bench \$75. Prince graphite tennis racquet \$50. Nintendo \$50. Softball bat \$15. Contact Jeff, box 5395.

Jeep parts: Rollbar, front axle(locking hubs), T-150 3 speed Trans, Spicer 20 transfer case, AMC 304 V8 engine, spare tire carrier, Saginaw steering unit, 4-15x8 wagon wheels, bellhousing, clutch, plate, etc. Negotiable call Doug 788-0839.

Computer for sale: High density, Eighty Megabyte, VGA monitor, 3.5 and 5.25 disk drives, 2400 baud modem, mouse, dual joystick card, programs, games, and much more. \$1200 O.B.O. Call Adam at 226-7487.

R/C Airplane setup. Skylark 40T, OS-Max 40 PP, Futaba GNFK, Futaba T4L fully loaded cables, various parts. Available separately or all for \$389. Make offer. Call Bill at 322-0072.

Mountain Bike \$64. Sony XE-90 (astro) equalizer \$79. Star 10X printer \$65. 40 meg MFM hard drive \$103. Sega Genesis \$99. Canon C52 Hlicb \$105. Best offer taken. Call Bill at 322-0072

For sale: good condition - Furniture, oak desk, computer stand, sofa (sectional w/recliner). Full size washer and dryer (\$300 pair). All other items negotiable. Evenings, Charlie 767-7378.

→ Miscellaneous

NEED MONEY FOR COLLEGE? Send SASE for details to: College Financial Planning Assoc. 4311 NW 53 Ct. Cocoa Creek, FL 32073. Attn: Annette Greco.

Color transparencies and laminations. Call 226-7563.

**CLASSIFIED AD POLICY**

- Non-commercial classified advertising and personals are free to the student body, faculty and staff of Embry-Riddle with a 35 word limit.
- All other non-commercial advertising is \$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.

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Flight instructor/aircraft rental \$56/hr. dual until soloed, then \$46/hr. until private. Instrument, commercial, IAC, BFR. Call me for free checkout.

Reward offered!  
For a green suede jacket left in room E603 on Feb. 26th after 3 p.m. Reply to box 7390. Reward offered!

Quality flight instruction at a great price! Private, instrument, commercial, BFR and ICC's. Call Phil at 788-1360.

Tired of paying high airline fares? I can get low fares anywhere in the U.S., Europe, Caribbean, Asia and South America. You can reach me at box 7489.

If you play a musical instrument and are interested in forming a small brass and woodwind group, contact Marty at box 8399.

Anyone who found a baseball mit at Derbyshire on 2/21 please contact 9056. Reward.

→ Personals

MITCH AND CREW BOY  
you both surprised me when you showed up at the last GALBA meeting. I had no idea! Let's get together...soon!  
BIO BAMBOO

BUBBA  
I miss you. Love always,

BILLY-BOB  
TO MY SPIDERMAN  
Can't wait to be forever tangled in your web - only eight weeks left to empty that closet. How many who are in there, anyway? About that sidewalk story - does it come with a kamikaze? Come see me soon. I love you.  
Kynell

TO SUSAN  
Sorry for the rotten first date. I hope this doesn't ruin our relationship as cousins.  
XOXOXO  
MIKE

TPA  
Sisters, thank you for the jersey! You are very important to me and you will always be a big part of my life, even when I don't have much time.  
FLYING NUN

He came,  
He saw,  
He WPS'ed,  
Congratulations Phil!

KELLY  
Watch out for the tree!  
SARAH

KEIRSTEN AND BRIAN  
Congratulations on your engagement. I wish you the best; and a long and happy marriage!  
SARAH

You know, it's a little known fact that GALBA was an ancient roman emperor.  
CLAVEN

HAD TO TWE BONE?  
Let's check another one off.  
BOW TIE

DAVE  
Were taking over.  
PAUL AND BRETT

FISH  
First your little brother, now you! Good recovery - nice neck.  
ONE OF YOUR ROOMMATES

GALBA  
Thanks for your trust. I miss you all. Keep it going and good luck. See you around!  
R.

Pledge AAS. (It's worth your while.)  
STROKE!

JEFF  
I love you!  
THERESA

DONNA COY  
Happy B-Day(30th). Hope your day is great.  
J.E.

SONYA R.  
Happy birthday.  
FROM YOUR HRM PAL IN OB'S CLASS

ALL YOU AAS MEMBERS  
Stroke I will live.

ASHA + WENDY  
Jersey girls. Glad you're here in Daytona. Have a good time!  
YOUR HOST

THE GIRL IN THE BLUE IMPULSE  
I am also Norwegian and would very much like to meet you. I think you are beautiful. Please contact me at box H211.

Greetings: Mandy, Missy, Kevin, Curt, Pete ... etc. Just passing through. Keep the Faith!  
CAPTAIN KIRK

Pie doves, boob flood, toe crust, fly mud, SINK PLUG. I love.

HOE  
Thanks for the delicious B-Day. It's amazing what you can do with a blow pop.  
STH

HEY POSSE SCUM!  
We will be having a possum dinner Thursday night.  
THE MEN

Congrats to the new members of AAS POHB3. Excellent job!  
STROKE! MEMBER G-MONEY

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Commentary  
*(continued from page B2)*

lack of throwaway features and three is the rapid turn-around capability.

By adopting and supporting SSTO, its future success appears to be inevitable. It would contribute to future U.S. security and leadership in space. It could also lead the world in opening space for peaceful economic purposes while reducing the costs of all future U.S. space activities. The time has come for a decision to be made by the Clinton Administration to save the country billions of dollars that such systems can offer. Only new systems like the SSTO can hope to give the U.S. a fair share of the worldwide commercial launch market that is now developing. At this stage, the SSTO program has far less risk associated with it than has been the case of other major successful U.S. space efforts such as Apollo or even the space shuttle.

By adopting and supporting this program, Vice President Gore and his space council could realize a major technological success that would contribute to future U.S. security and leadership in space. It could also lead the world in opening space for peaceful economic purposes while reducing the cost of all future space activities.

The Clinton Administration has a golden opportunity to take advantage of the peace dividend to place this great nation back in the driver seat. It is an economic sound idea and an investment in the future of America.



**MYSTERY PLAY**

...IT'S COMING